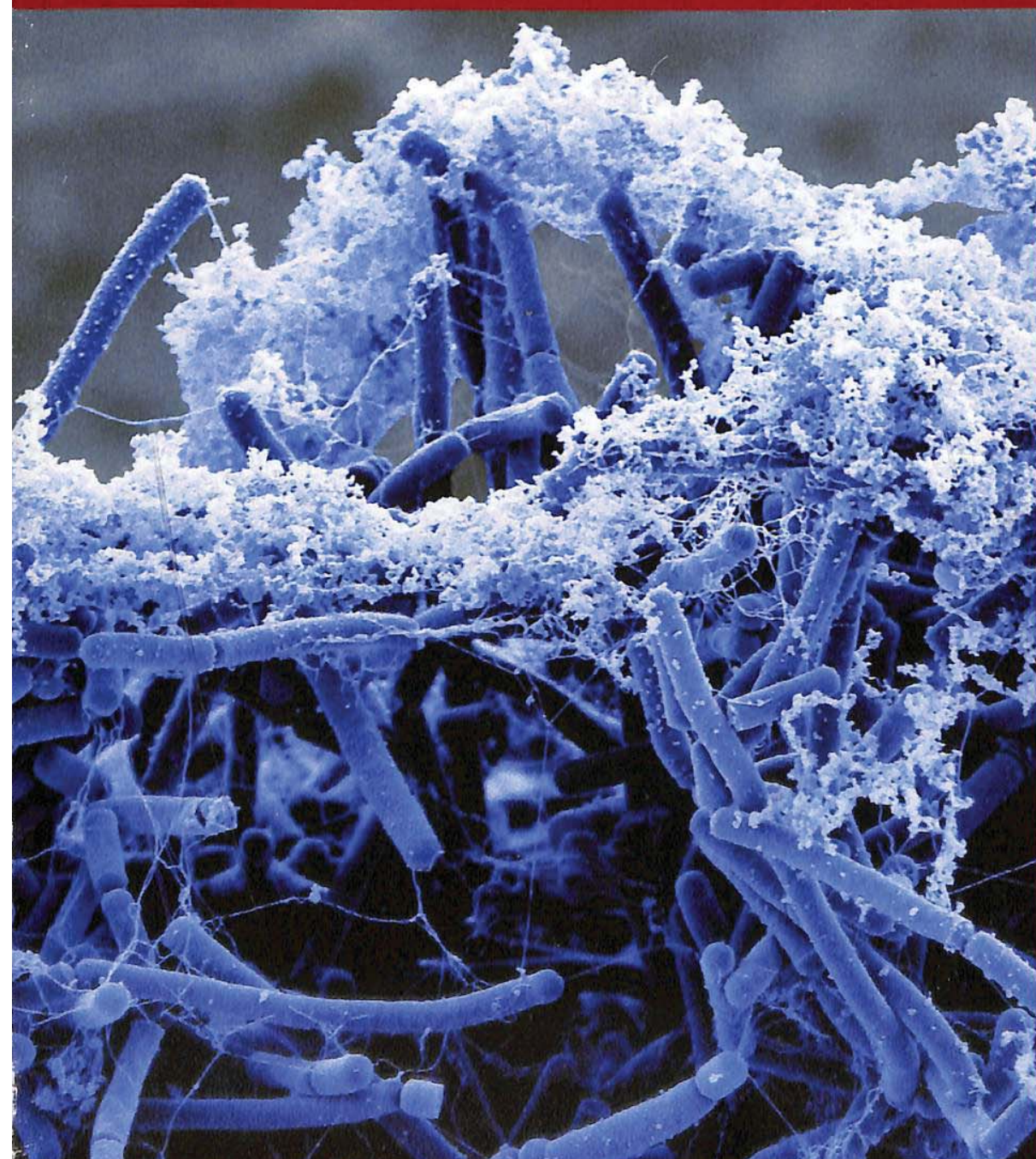


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TABLE OF CONTENTS

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors

BIODEGRADATION

Molecular Mechanism of Nicotine Degradation by a Newly Isolated Strain, *Ochrobactrum* sp. Strain SJY1

Selection for Growth on 3-Nitrotoluene by 2-Nitrotoluene-Utilizing *Acidovorax* sp. Strain JS42 Identifies Nitroarene Dioxygenases with Altered Specificities

BIOTECHNOLOGY

Acquisition of the Ability To Assimilate Mannitol by *Saccharomyces cerevisiae* through Dysfunction of the General Corepressor Tup1-Cyc8

Enhancing Terpene Yield from Sugars via Novel Routes to 1-Deoxy-D-Xylulose 5-Phosphate

Inactivation of a *GAL4*-Like Transcription Factor Improves Cell Fitness and Product Yield in Glycoengineered *Pichia pastoris* Strains

Bioengineering of Bacteria To Assemble Custom-Made Polyester Affinity Resins

ENVIRONMENTAL MICROBIOLOGY

Recovery of Plasmid pEMB1, Whose Toxin-Antitoxin System Stabilizes an Ampicillin Resistance-Confering β -Lactamase Gene in *Escherichia coli*, from Natural Environments

The Western Progression of Lyme Disease: Infectious and Nonclonal *Borrelia burgdorferi Sensu Lato* Populations in Grand Forks County, North Dakota

Isolation of Acetogenic Bacteria That Induce Biocorrosion by Utilizing Metallic Iron as the Sole Electron Donor

Improved Bacterial Detection Using Immobilized Acyl-Lysyl Oligomers

Distribution of Human-Specific *Bacteroidales* and Fecal Indicator Bacteria in an Urban Watershed Impacted by Sewage Pollution, Determined Using RNA- and DNA-Based Quantitative PCR Assays

amoA Gene Abundances and Nitrification Potential Rates Suggest that Benthic Ammonia-Oxidizing Bacteria and Not Archaea Dominate N Cycling in the Colne Estuary, United Kingdom



	1
Hao Yu, Hongzhi Tang, Xiongyu Zhu, Yangyang Li, Ping Xu	272–281
Kristina M. Mahan, Joseph T. Penrod, Kou-San Ju, Natascia Al Kass, Watumesa A. Tan, Richard Truong, Juanito V. Parales, Rebecca E. Parales	309–319
Moeko Chujo, Shiori Yoshida, Anri Ota, Kousaku Murata, Shigeyuki Kawai	9–16
James Kirby, Minobu Nishimoto, Ruthie W. N. Chow, Edward E. K. Baidoo, George Wang, Joel Martin, Wendy Schackwitz, Rossana Chan, Jeffrey L. Fortman, Jay D. Keasling	130–138
Bo Jiang, Rebecca Argyros, John Bukowski, Stephanie Nelson, Nathan Sharkey, Sehoon Kim, Victoria Copeland, Robert C. Davidson, Ronghua Chen, Jun Zhuang, Natarajan Sethuraman, Terrance A. Stadheim	260–271
Iain D. Hay, Jinping Du, Natalie Burr, Bernd H. A. Rehm	282–291
Hyo Jung Lee, Hyun Mi Jin, Moon Su Park, Woojun Park, Eugene L. Madsen, Che Ok Jeon	40–47
Brandee L. Stone, Nathan M. Russart, Robert A. Gaultney, Angela M. Floden, Jefferson A. Vaughan, Catherine A. Brissette	48–58
Souichiro Kato, Isao Yumoto, Yoichi Kamagata	67–73
Ibrahim Marjeh, Ohad Meir, Fadia Zaknoon, Amram Mor	74–80
Vikram Kapoor, Tarja Pitkänen, Hodon Ryu, Michael Elk, David Wendell, Jorge W. Santo Domingo	91–99
Jialin Li, David B. Nedwell, Jessica Beddow, Alex J. Dumbrell, Boyd A. McKew, Emma L. Thorpe, Corinne Whitby	159–165

Evidence for Extraintestinal Growth of <i>Bacteroidales</i> Originating from Poultry Litter	Jennifer Weidhaas, Sirisha Mantha, Elliott Hair, Bina Nayak, Valerie J. Harwood	196–202
Predation by <i>Myxococcus xanthus</i> Induces <i>Bacillus subtilis</i> To Form Spore-Filled Megastructures	Susanne Müller, Sarah N. Strack, Sarah E. Ryan, Daniel B. Kearns, John R. Kirby	203–210
Embedded Biofilm, a New Biofilm Model Based on the Embedded Growth of Bacteria	Yong-Gyun Jung, Jungil Choi, Soo-Kyoung Kim, Joon-Hee Lee, Sunghoon Kwon	211–219
Response of Bacterioplankton Communities to Cadmium Exposure in Coastal Water Microcosms with High Temporal Variability	Kai Wang, Demin Zhang, Jinbo Xiong, Xinxin Chen, Jialai Zheng, Changju Hu, Yina Yang, Jianlin Zhu	231–240
Mortalities of Eastern and Pacific Oyster Larvae Caused by the Pathogens <i>Vibrio coralliilyticus</i> and <i>Vibrio tubiashii</i>	Gary P. Richards, Michael A. Watson, David S. Needleman, Karlee M. Church, Claudia C. Häse	292–297
Community Shift from Phototrophic to Chemotrophic Sulfide Oxidation following Anoxic Holomixis in a Stratified Seawater Lake	Petra Pjevac, Marino Korlević, Jasmine S. Berg, Elvira Bura-Nakić, Irena Ciglenečki, Rudolf Amann, Sandi Orlić	298–308
Molecular and Metabolic Adaptations of <i>Lactococcus lactis</i> at Near-Zero Growth Rates	Onur Ercan, Michiel Wels, Eddy J. Smid, Michiel Kleerebezem	320–331
Nonribosomal Peptide Synthase Gene Clusters for Lipopeptide Biosynthesis in <i>Bacillus subtilis</i> 916 and Their Phenotypic Functions	Chuping Luo, Xuehui Liu, Huafei Zhou, Xiaoyu Wang, Zhiyi Chen	422–431
ENZYMOLGY AND PROTEIN ENGINEERING		
Investigating the Function of an Arabinan Utilization Locus Isolated from a Termite Gut Community	Grégory Arnal, Géraldine Bastien, Nelly Monties, Anne Abot, Véronique Anton Leberre, Sophie Bozonnet, Michael O'Donohue, Claire Dumon	31–39
Proximity Effect among Cellulose-Degrading Enzymes Displayed on the <i>Saccharomyces cerevisiae</i> Cell Surface	Jungu Bae, Kouichi Kuroda, Mitsuyoshi Ueda	59–66
Thermoadaptation-Directed Enzyme Evolution in an Error-Prone Thermophile Derived from <i>Geobacillus kaustophilus</i> HTA426	Hirokazu Suzuki, Jyumpei Kobayashi, Keisuke Wada, Megumi Furukawa, Katsumi Doi	149–158
EVOLUTIONARY AND GENOMIC MICROBIOLOGY		
Use of Adaptive Laboratory Evolution To Discover Key Mutations Enabling Rapid Growth of <i>Escherichia coli</i> K-12 MG1655 on Glucose Minimal Medium	Ryan A. LaCroix, Troy E. Sandberg, Edward J. O'Brien, Jose Utrilla, Ali Ebrahim, Gabriela I. Guzman, Richard Szubin, Bernhard O. Palsson, Adam M. Feist	17–30
FOOD MICROBIOLOGY		
Enhanced Inactivation of Food-Borne Pathogens in Ready-To-Eat Sliced Ham by Near-Infrared Heating Combined with UV-C Irradiation and Mechanism of the Synergistic Bactericidal Action	Jae-Won Ha, Dong-Hyun Kang	2–8
Improving Detection of Shiga Toxin-Producing <i>Escherichia coli</i> by Molecular Methods by Reducing the Interference of Free Shiga Toxin-Encoding Bacteriophages	Pablo Quirós, Alexandre Martínez-Castillo, Maite Muniesa	415–421
Screening of High-Level 4-Hydroxy-2 (or 5)-Ethyl-5 (or 2)-Methyl-3(2H)-Furanone-Producing Strains from a Collection of Gene Deletion Mutants of <i>Saccharomyces cerevisiae</i>	Kenji Uehara, Jun Watanabe, Takeshi Akao, Daisuke Watanabe, Yoshinobu Mogi, Hitoshi Shimoi	453–460

GENETICS AND MOLECULAR BIOLOGY

- Identification of *ypqP* as a New *Bacillus subtilis* Biofilm Determinant That Mediates the Protection of *Staphylococcus aureus* against Antimicrobial Agents in Mixed-Species Communities 109–118
Pilar Sanchez-Vizueté, Dominique Le Coq, Arnaud Bridier, Jean-Marie Herry, Stéphane Aymerich, Romain Briandet
- Transmission and Persistence of Livestock-Associated Methicillin-Resistant *Staphylococcus aureus* among Veterinarians and Their Household Members 124–129
T. Bosch, E. Verkade, M. van Luit, F. Landman, J. Kluytmans, L. M. Schouls
- Discovery of a Conjugative Megaplasmid in *Bifidobacterium breve* 166–176
Francesca Bottacini, Mary O'Connell Motherway, Eoghan Casey, Brian McDonnell, Jennifer Mahony, Marco Ventura, Douwe van Sinderen
- Transcriptional Activation of Multiple Operons Involved in *para*-Nitrophenol Degradation by *Pseudomonas* sp. Strain WBC-3 220–230
Wen-Mao Zhang, Jun-Jie Zhang, Xuan Jiang, Hongjun Chao, Ning-Yi Zhou
- Effects of Actin-Like Proteins Encoded by Two *Bacillus pumilus* Phages on Unstable Lysogeny, Revealed by Genomic Analysis 339–350
Yihui Yuan, Qin Peng, Dandan Wu, Zheng Kou, Yan Wu, Pengming Liu, Meiyang Gao
- Deciphering the Role of Multiple Betaine-Carnitine-Choline Transporters in the Halophile *Vibrio parahaemolyticus* 351–363
Serge Y. Ongagna-Yhombi, Nathan D. McDonald, E. Fidelma Boyd
- A Novel DNA-Binding Protein, PhaR, Plays a Central Role in the Regulation of Polyhydroxyalkanoate Accumulation and Granule Formation in the Haloarchaeon *Haloferax mediterranei* 373–385
Shuangfeng Cai, Lei Cai, Dahe Zhao, Guiming Liu, Jing Han, Jian Zhou, Hua Xiang

METHODS

- Reproducible and Quantitative Model of Infection of *Dermacentor variabilis* with the Live Vaccine Strain of *Francisella tularensis* 386–395
Jenifer Coburn, Tamara Maier, Monika Casey, Lavinia Padmore, Hiromi Sato, Dara W. Frank

MICROBIAL ECOLOGY

- Comparisons of Ectomycorrhizal Colonization of Transgenic American Chestnut with Those of the Wild Type, a Conventionally Bred Hybrid, and Related Fagaceae Species 100–108
Katherine M. D'Amico, Thomas R. Horton, Charles A. Maynard, Stephen V. Stehman, Allison D. Oakes, William A. Powell
- A Polysaccharide Utilization Locus from an Uncultured *Bacteroidetes* Phylotype Suggests Ecological Adaptation and Substrate Versatility 187–195
A. K. Mackenzie, A. E. Naas, S. K. Kracun, J. Schückel, J. U. Fangel, J. W. Agger, W. G. T. Willats, V. G. H. Eijssink, P. B. Pope
- Intra- and Interindividual Variations Mask Interspecies Variation in the Microbiota of Sympatric *Peromyscus* Populations 396–404
Nielson T. Baxter, Judy J. Wan, Alyxandria M. Schubert, Matthew L. Jenior, Philip Myers, Patrick D. Schloss
- Marine Cyanophages Demonstrate Biogeographic Patterns throughout the Global Ocean 441–452
Sijun Huang, Si Zhang, Nianzhi Jiao, Feng Chen

PHYSIOLOGY

- Uptake of Amino Acids and Their Metabolic Conversion into the Compatible Solute Proline Confers Osmoprotection to *Bacillus subtilis* 250–259
Adrienne Zapras, Monika Bleisteiner, Anne Kerres, Tamara Hoffmann, Erhard Bremer
- Salivary Mucins Protect Surfaces from Colonization by Cariogenic Bacteria 332–338
Erica Shapiro Frenkel, Katharina Ribbeck

PLANT MICROBIOLOGY

- Highly Diverse Endophytic and Soil *Fusarium oxysporum* Populations Associated with Field-Grown Tomato Plants 81–90
Jill E. Demers, Beth K. Gugino, María del Mar Jiménez-Gasco

- Siderophore-Mediated Iron Acquisition Influences Motility and Is Required for Full Virulence of the Xylem-Dwelling Bacterial Phytopathogen *Pantoea stewartii* subsp. *stewartii***
- Lindsey Burbank, Mojtaba Mohammadi, M. Caroline Roper 139–148
- An *In Planta*-Expressed Polyketide Synthase Produces (*R*)-Mellein in the Wheat Pathogen *Parastagonospora nodorum***
- Yit-Heng Chooi, Christian Krill, Russell A. Barrow, Shasha Chen, Robert Trengove, Richard P. Oliver, Peter S. Solomon 177–186
- High Incidence of Preharvest Colonization of Huanglongbing-Symptomatic *Citrus sinensis* Fruit by *Lasiodiplodia theobromae* (*Diplodia natalensis*) and Exacerbation of Postharvest Fruit Decay by That Fungus**
- Wei Zhao, Jinhe Bai, Greg McCollum, Elizabeth Baldwin 364–372
- In Vitro* Activity of Glucosinolates and Their Degradation Products against *Brassica*-Pathogenic Bacteria and Fungi**
- T. Sotelo, M. Lema, P. Soengas, M. E. Cartea, P. Velasco 432–440
- PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY**
- Nationwide Surveillance Study of *Clostridium difficile* in Australian Neonatal Pigs Shows High Prevalence and Heterogeneity of PCR Ribotypes**
- Daniel R. Knight, Michele M. Squire, Thomas V. Riley 119–123
- Rotavirus Genotypes in Sewage Treatment Plants and in Children Hospitalized with Acute Diarrhea in Italy in 2010 and 2011**
- Franco M. Ruggeri, Paolo Bonomo, Giovanni Ianiro, Andrea Battistone, Roberto Delogu, Cinzia Germinario, Maria Chironna, Maria Triassi, Rosalba Campagnuolo, Antonella Cicala, Giovanni M. Giammanco, Paolo Castiglia, Caterina Serra, Andrea Gaggioli, Lucia Fiore 241–249
- Pathogenicity of *Salmonella* Strains Isolated from Egg Shells and the Layer Farm Environment in Australia**
- Andrea R. McWhorter, Dianne Davos, K. K. Chousalkar 405–414
- AUTHOR CORRECTIONS**
- Correction for Martin and Van Mooy, Fluorometric Quantification of Polyphosphate in Environmental Plankton Samples: Extraction Protocols, Matrix Effects, and Nucleic Acid Interference**
- Patrick Martin, Benjamin A. S. Van Mooy 461
- Correction for Jacob et al., Prevalence and Relatedness of *Escherichia coli* O157:H7 Strains in the Feces and on the Hides and Carcasses of U.S. Meat Goats at Slaughter**
- M. E. Jacob, D. M. Foster, A. T. Rogers, C. C. Balcomb, M. W. Sanderson 462

TABLE OF CONTENTS

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors

MINIREVIEW

Quaternary Ammonium Biocides: Efficacy in Application

BIODEGRADATION

Dehalococcoides mccartyi Strain DCMB5 Respires a Broad Spectrum of Chlorinated Aromatic Compounds

Association of Biodiversity with the Rates of Micropollutant Biotransformations among Full-Scale Wastewater Treatment Plant Communities

BIOTECHNOLOGY

Engineering *Neurospora crassa* for Improved Cellobiose and Cellobionate Production

Synthesis and Succinylation of Subtilin-Like Lantibiotics Are Strongly Influenced by Glucose and Transition State Regulator AbrB

Autotransporter-Based Antigen Display in Bacterial Ghosts

ENVIRONMENTAL MICROBIOLOGY

Transcriptomics-Aided Dissection of the Intracellular and Extracellular Roles of Microcystin in *Microcystis aeruginosa* PCC 7806

Pyrosequencing of *mcrA* and Archaeal 16S rRNA Genes Reveals Diversity and Substrate Preferences of Methanogen Communities in Anaerobic Digesters

Exposure to Synthetic Gray Water Inhibits Amoeba Encystation and Alters Expression of *Legionella pneumophila* Virulence Genes

Plasmid-Mediated Resistance to Cephalosporins and Fluoroquinolones in Various *Escherichia coli* Sequence Types Isolated from Rooks Wintering in Europe

Entericidin Is Required for a Probiotic Treatment (*Enterobacter* sp. Strain C6-6) To Protect Trout from Cold-Water Disease Challenge



463

Charles P. Gerba

464–469

Marlén Pöritz, Christian L. Schiffmann, Gerd Hause, Ulrike Heinemann, Jana Seifert, Nico Jehmlich, Martin von Bergen, Ivonne Nijenhuis, Ute Lechner

587–596

David R. Johnson, Damian E. Helbling, Tae Kwon Lee, Joonhong Park, Kathrin Fenner, Hans-Peter E. Kohler, Martin Ackermann

666–675

Amanda Hildebrand, Edyta Szewczyk, Hui Lin, Takao Kasuga, Zhiliang Fan

597–603

Sophie M. Bochmann, Tobias Spieß, Peter Kötter, Karl-Dieter Entian

614–622

Anna Hjelm, Bill Söderström, David Vikström, Wouter S. P. Jong, Joen Luirink, Jan-Willem de Gier

726–735

A. Katharina Makower, J. Merijn Schuurmans, Detlef Groth, Yvonne Zilliges, Hans C. P. Matthijs, Elke Dittmann

544–554

David Wilkins, Xiao-Ying Lu, Zhiyong Shen, Jiapeng Chen, Patrick K. H. Lee

604–613

Helen Y. Buse, Jingrang Lu, Nicholas J. Ashbolt

630–639

Ivana Jamborova, Monika Dolejska, Jiri Vojtech, Sebastian Guenther, Raluca Uricariu, Joanna Drozdowska, Ivo Papousek, Katerina Pasekova, Wlodzimierz Meissner, Jozef Hordowski, Alois Cizek, Ivan Literak

648–657

Carla B. Schubiger, Lisa H. Orfe, Ponnerassery S. Sudheesh, Kenneth D. Cain, Devendra H. Shah, Douglas R. Call

658–665

A Previously Uncharacterized, Nonphotosynthetic Member of the *Chromatiaceae* Is the Primary CO₂-Fixing Constituent in a Self-Regenerating Biocathode

Zheng Wang, Dagmar H. Leary, 699–712
 Anthony P. Malanoski, Robert W. Li,
 W. Judson Hervey IV, Brian J. Eddie,
 Gabrielle S. Tender, Shelley G. Yanosky,
 Gary J. Vora, Leonard M. Tender,
 Baochuan Lin, Sarah M.
 Strycharz-Glaven

ENZYMOLGY AND PROTEIN ENGINEERING

X-Ray Structure of the Amidase Domain of AtzF, the Allophanate Hydrolase from the Cyanuric Acid-Mineralizing Multienzyme Complex

Sahil Balotra, Janet Newman, Nathan P. 470–480
 Cowieson, Nigel G. French, Peter M.
 Campbell, Lyndall J. Briggs, Andrew C.
 Warden, Christopher J. Easton,
 Thomas S. Peat, Colin Scott

EVOLUTIONARY AND GENOMIC MICROBIOLOGY

Highly Dynamic Genomic Loci Drive the Synthesis of Two Types of Capsular or Secreted Polysaccharides within the *Mycoplasma mycoides* Cluster

Clothilde Bertin, Corinne Pau-Roblot, 676–687
 Josiane Courtois, Lucía Manso-Silván,
 Florence Tardy, François Poumarat,
 Christine Citti, Pascal Sirand-Pugnet,
 Patrice Gaurivaud, François Thiaucourt

FOOD MICROBIOLOGY

rpoS-Regulated Core Genes Involved in the Competitive Fitness of *Salmonella enterica* Serovar Kentucky in the Intestines of Chickens

Ying Cheng, Adriana Ayres Pedroso, 502–514
 Steffen Porwollik, Michael McClelland,
 Margie D. Lee, Tiffany Kwan, Katherine
 Zamperini, Vivek Soni, Holly S. Sellers,
 Scott M. Russell, John J. Maurer

Evaluation of the Porcine Gastric Mucin Binding Assay for High-Pressure-Inactivation Studies Using Murine Norovirus and Tulane Virus

Xinhui Li, Haiqiang Chen 515–521

Modeling the Recovery of Heat-Treated *Bacillus licheniformis* Ad978 and *Bacillus weihenstephanensis* KBAB4 Spores at Suboptimal Temperature and pH Using Growth Limits

C. Trunet, N. Mtimet, A.-G. Mathot, F. 562–568
 Postollec, I. Leguerinel, D. Sohier, O.
 Couvert, F. Carlin, L. Coroller

Genomic Diversity and Virulence Profiles of Historical *Escherichia coli* O157 Strains Isolated from Clinical and Environmental Sources

Lydia V. Rump, Narjol Gonzalez- 569–577
 Escalona, Wenting Ju, Fei Wang,
 Guojie Cao, Sean Meng, Jianghong
 Meng

Application of Chitosan Microparticles for Reduction of *Vibrio* Species in Seawater and Live Oysters (*Crassostrea virginica*)

Lei Fang, Bernhard Wolmarans, 640–647
 Minyoung Kang, Kwang C. Jeong,
 Anita C. Wright

Occurrence of Antimicrobial-Resistant *Escherichia coli* and *Salmonella enterica* in the Beef Cattle Production and Processing Continuum

John W. Schmidt, Getahun E. Agga, 713–725
 Joseph M. Bošilevac, Dayna M. Brichta-
 Harhay, Steven D. Shackelford, Rong
 Wang, Tommy L. Wheeler, Terrance
 M. Arthur

GENETICS AND MOLECULAR BIOLOGY

Immunoprecipitation of Native Botulinum Neurotoxin Complexes from *Clostridium botulinum* Subtype A Strains

Guangyun Lin, William H. Tepp, 481–491
 Marite Bradshaw, Chase M. Fredrick,
 Eric A. Johnson

Modulating Endoplasmic Reticulum-Golgi Cargo Receptors for Improving Secretion of Carrier-Fused Heterologous Proteins in the Filamentous Fungus *Aspergillus oryzae*

Huy-Dung Hoang, Jun-ichi Maruyama, 533–543
 Katsuhiko Kitamoto

Glutamate Decarboxylase-Dependent Acid Resistance in <i>Brucella</i> spp.: Distribution and Contribution to Fitness under Extremely Acidic Conditions	Maria Alessandra Damiano, Daniela Bastianelli, Sascha Al Dahouk, Stephan Köhler, Axel Cloeckert, Daniela De Biase, Alessandra Occhialini	578–586
Molecular Toolbox for Genetic Manipulation of the Stalked Budding Bacterium <i>Hyphomonas neptunium</i>	Alexandra Jung, Sabrina Eisheuer, Emöke Cserti, Oliver Leicht, Wolfgang Strobel, Andrea Möll, Susan Schlimpert, Juliane Kühn, Martin Thanbichler	736–744
MomL, a Novel Marine-Derived <i>N</i> -Acyl Homoserine Lactonase from <i>Muricauda olearia</i>	Kaihao Tang, Ying Su, Gilles Brackman, Fangyuan Cui, Yunhui Zhang, Xiaochong Shi, Tom Coenye, Xiao-Hua Zhang	774–782
Propionyl Coenzyme A (Propionyl-CoA) Carboxylase in <i>Haloferax mediterranei</i> : Indispensability for Propionyl-CoA Assimilation and Impacts on Global Metabolism	Jing Hou, Hua Xiang, Jing Han	794–804
INVERTEBRATE MICROBIOLOGY		
Role of Secondary Metabolites in Establishment of the Mutualistic Partnership between <i>Xenorhabdus nematophila</i> and the Entomopathogenic Nematode <i>Steinernema carpocapsae</i>	Swati Singh, David Orr, Emmanuel Divinagracia, Joseph McGraw, Kellen Dorff, Steven Forst	754–764
METHODS		
New Multilocus Variable-Number Tandem-Repeat Analysis Tool for Surveillance and Local Epidemiology of Bacterial Leaf Blight and Bacterial Leaf Streak of Rice Caused by <i>Xanthomonas oryzae</i>	L. Poulin, P. Grygiel, M. Magne, L. Gagnevin, L. M. Rodriguez-R, N. Forero Serna, S. Zhao, M. El Rafi, S. Dao, C. Tekete, I. Wonné, O. Koita, O. Pruvost, V. Verdier, C. Vernière, R. Koebnik	688–698
MICROBIAL ECOLOGY		
Vegetation-Associated Impacts on Arctic Tundra Bacterial and Microeukaryotic Communities	Yu Shi, Xingjia Xiang, Congcong Shen, Haiyan Chu, Josh D. Neufeld, Virginia K. Walker, Paul Grogan	492–501
<i>Bartonella chomelii</i> Is the Most Frequent Species Infecting Cattle Grazing in Communal Mountain Pastures in Spain	M. L. Antequera-Gómez, L. Lozano-Almendral, J. F. Barandika, R. M. González-Martín-Niño, I. Rodríguez-Moreno, A. L. García-Pérez, H. Gil	623–629
Ecological Succession and Viability of Human-Associated Microbiota on Restroom Surfaces	Sean M. Gibbons, Tara Schwartz, Jennifer Fouquier, Michelle Mitchell, Naseer Sangwan, Jack A. Gilbert, Scott T. Kelley	765–773
Dysbiosis and Alterations in Predicted Functions of the Subgingival Microbiome in Chronic Periodontitis	Mariana E. Kirst, Eric C. Li, Barnett Alfant, Yueh-Yun Chi, Clay Walker, Ingvar Magnusson, Gary P. Wang	783–793
PHYSIOLOGY		
Comparison of Oxidation Kinetics of Nitrite-Oxidizing Bacteria: Nitrite Availability as a Key Factor in Niche Differentiation	Boris Nowka, Holger Daims, Eva Spieck	745–753
PLANT MICROBIOLOGY		
Phyllosphere Bacterial Community of Floating Macrophytes in Paddy Soil Environments as Revealed by Illumina High-Throughput Sequencing	Wan-Ying Xie, Jian-Qiang Su, Yong-Guan Zhu	522–532

**PUBLIC AND ENVIRONMENTAL HEALTH
MICROBIOLOGY**

**Aerosolization of Respirable Droplets from a Domestic Spa Pool
and the Use of MS-2 Coliphage and *Pseudomonas aeruginosa* as
Markers for *Legionella pneumophila***

Ginny Moore, Matthew Hewitt, David
Stevenson, Jimmy T. Walker, Allan M.
Bennett

555–561

Cover photograph (Copyright © 2015, American Society for Microbiology. All Rights Reserved): *Mycoplasma mycoides* subsp. *mycoides* SC colonies display a typical fried-egg shape due to mycoplasmas invading the agar medium at the center of the colony. In the *Mycooides* cluster, the colony shape varies notably depending on the growth speed and the ability of the strain to produce polysaccharides. Colonies can be viewed with diverse illumination techniques (e.g., circular lateral, oblique transillumination, circular transillumination, and dark field) under the microscope at low magnification ($\times 4$). (See related article on page 676.)

TABLE OF CONTENTS

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors

MINIREVIEW

Up against the Wall: Is Yeast Cell Wall Integrity Ensured by Mechanosensing in Plasma Membrane Microdomains?

BIOTECHNOLOGY

Metabolic Engineering of *Escherichia coli* for the Synthesis of the Plant Polyphenol Pinosylin

Phage-Encoded Colanic Acid-Degrading Enzyme Permits Lytic Phage Infection of a Capsule-Forming Resistant Mutant *Escherichia coli* Strain

Effects of Eliminating Pyruvate Node Pathways and of Coexpression of Heterogeneous Carboxylation Enzymes on Succinate Production by *Enterobacter aerogenes*

Burkholderia cepacia Complex Phage-Antibiotic Synergy (PAS): Antibiotics Stimulate Lytic Phage Activity

ENVIRONMENTAL MICROBIOLOGY

High Levels of Antimicrobial Resistance among *Escherichia coli* Isolates from Livestock Farms and Synanthropic Rats and Shrews in the Mekong Delta of Vietnam

Alternative Fecal Indicators and Their Empirical Relationships with Enteric Viruses, *Salmonella enterica*, and *Pseudomonas aeruginosa* in Surface Waters of a Tropical Urban Catchment

Complete Genome Sequence Analysis of Two *Pseudomonas plecoglossicida* Phages, Potential Therapeutic Agents

Temporal and Vertical Distributions of Bacterioplankton at the Gray's Reef National Marine Sanctuary

A Regulatory Feedback Loop between RpoS and SpoT Supports the Survival of *Legionella pneumophila* in Water

The *Geoglobus acetivorans* Genome: Fe(III) Reduction, Acetate Utilization, Autotrophic Growth, and Degradation of Aromatic Compounds in a Hyperthermophilic Archaeon

Competition between Metals for Binding to Methanobactin Enables Expression of Soluble Methane Monooxygenase in the Presence of Copper



805

Christian Kock, Yves F. Dufrène,
Jürgen J. Heinisch

806–811

Philana Veronica van Summeren-
Wesenhagen, Jan Marienhagen

840–849

Min Soo Kim, Young Deuk Kim, Sung
Sik Hong, Kwangseo Park, Kwan Soo
Ko, Heejoon Myung

900–909

Yoshinori Tajima, Yoko Yamamoto,
Keita Fukui, Yousuke Nishio, Kenichi
Hashiguchi, Yoshihiro Usuda, Koji
Sode

929–937

Fatima Kamal, Jonathan J. Dennis

1132–1138

N. T. Nhung, N. V. Cuong,
J. Campbell, N. T. Hoa, J. E. Bryant,
V. N. T. Truc, B. T. Kiet, T. Jombart,
N. V. Trung, V. B. Hien, G. Thwaites,
S. Baker, J. Carrique-Mas

812–820

L. Liang, S. G. Goh, G. G. R. V. Vergara,
H. M. Fang, S. Rezaeinejad, S. Y. Chang,
S. Bayen, W. A. Lee, M. D. Sobsey,
J. B. Rose, K. Y. H. Gin

850–860

Yasuhiko Kawato, Motoshige Yasuie,
Yoji Nakamura, Yuya Shigenobu,
Atushi Fujiwara, Motohiko Sano,
Toshihiro Nakai

874–881

Xinxin Lu, Shulei Sun, Yu-Qin Zhang,
James T. Hollibaugh, Xiaozhen Mou

910–917

Hana Trigui, Paulina Dudyk, Jinrok
Oh, Jong-In Hong, Sebastien P.
Faucher

918–928

Andrey V. Mardanov, Galina B.
Slododkina, Alexander I. Slobodkin,
Alexey V. Beletsky, Sergey N. Gavrilov,
Ilya V. Kublanov, Elizaveta A. Bonch-
Osmolovskaya, Konstantin G. Skryabin,
Nikolai V. Ravin

1003–1012

Bhagalakshmi Kalidass, Muhammad
Farhan Ul-Haque, Bipin S. Baral,
Alan A. DiSpirito, Jeremy D. Semrau

1024–1031

Discovery of Two Novel Viruses Expands the Diversity of Single-Stranded DNA and Single-Stranded RNA Viruses Infecting a Cosmopolitan Marine Diatom	Kei Kimura, Yuji Tomaru	1120–1131
Mycofumigation by the Volatile Organic Compound-Producing Fungus <i>Muscodor albus</i> Induces Bacterial Cell Death through DNA Damage	Cambria J. Alpha, Manuel Campos, Christine Jacobs-Wagner, Scott A. Strobel	1147–1156
<i>Escherichia coli</i> Survival in, and Release from, White-Tailed Deer Feces	Andrey K. Guber, Jessica Fry, Rebecca L. Ives, Joan B. Rose	1168–1176
Zoonotic Potential of <i>Escherichia coli</i> Isolates from Retail Chicken Meat Products and Eggs	Natalie M. Mitchell, James R. Johnson, Brian Johnston, Roy Curtiss III, Melha Mellata	1177–1187
ENZYMOLGY AND PROTEIN ENGINEERING		
Substrate-Induced Radical Formation in 4-Hydroxybutyryl Coenzyme A Dehydratase from <i>Clostridium aminobutyricum</i>	Jin Zhang, Peter Friedrich, Antonio J. Pierik, Berta M. Martins, Wolfgang Buckel	1071–1084
EVOLUTIONARY AND GENOMIC MICROBIOLOGY		
Adaptation Genomics of a Small-Colony Variant in a <i>Pseudomonas chlororaphis</i> 30-84 Biofilm	Dongping Wang, Robert J. Dorosky, Cliff S. Han, Chien-chi Lo, Armand E. K. Dichosa, Patrick S. Chain, Jun Myoung Yu, Leland S. Pierson III, Elizabeth A. Pierson	890–899
Population Genetic Analysis of <i>Streptomyces albidoflavus</i> Reveals Habitat Barriers to Homologous Recombination in the Diversification of Streptomycetes	Kun Cheng, Xiaoying Rong, Adrián A. Pinto-Tomás, Marcela Fernández-Villalobos, Catalina Murillo-Cruz, Ying Huang	966–975
FOOD MICROBIOLOGY		
Effect of Proximity to a Cattle Feedlot on <i>Escherichia coli</i> O157:H7 Contamination of Leafy Greens and Evaluation of the Potential for Airborne Transmission	Elaine D. Berry, James E. Wells, James L. Bono, Bryan L. Woodbury, Norasak Kalchayanand, Keri N. Norman, Trevor V. Suslow, Gabriela López-Velasco, Patricia D. Millner	1101–1110
GENETICS AND MOLECULAR BIOLOGY		
Induction of Humoral and Cell-Mediated Immune Responses by Hepatitis B Virus Epitope Displayed on the Virus-Like Particles of Prawn Nodavirus	Chean Yeah Yong, Swee Keong Yeap, Zee Hong Goh, Kok Lian Ho, Abdul Rahman Omar, Wen Siang Tan	882–889
Use of an Endogenous Plasmid Locus for Stable <i>in trans</i> Complementation in <i>Borrelia burgdorferi</i>	Irene N. Kasumba, Aaron Bestor, Kit Tilly, Patricia A. Rosa	1038–1046
INVERTEBRATE MICROBIOLOGY		
Passage of <i>Wolbachia pipientis</i> through Mutant <i>Drosophila melanogaster</i> Induces Phenotypic and Genomic Changes	Irene L. G. Newton, Kathy B. Sheehan	1032–1037
The Role of Host Phylogeny Varies in Shaping Microbial Diversity in the Hindguts of Lower Termites	Vera Tai, Erick R. James, Christine A. Nalepa, Rudolf H. Scheffrahn, Steve J. Perlman, Patrick J. Keeling	1059–1070
METHODS		
Identification of a Wide Range of Motifs Inhibitory to Shiga Toxin by Affinity-Driven Screening of Customized Divalent Peptides Synthesized on a Membrane	Mihoko Kato, Miho Watanabe-Takahashi, Eiko Shimizu, Kiyotaka Nishikawa	1092–1100

MICROBIAL ECOLOGY

- Potential Contribution of Anammox to Nitrogen Loss from Paddy Soils in Southern China Xiao-Ru Yang, Hu Li, San-An Nie, Jian-Qiang Su, Bo-Sen Weng, Gui-Bing Zhu, Huai-Ying Yao, Jack A. Gilbert, Yong-Guan Zhu 938–947
- Rapid Redox Signal Transmission by “Cable Bacteria” beneath a Photosynthetic Biofilm S. Y. Malkin, F. J. R. Meysman 948–956
- Few Highly Abundant Operational Taxonomic Units Dominate within Rumen Methanogenic Archaeal Species in New Zealand Sheep and Cattle Henning Seedorf, Sandra Kittelmann, Peter H. Janssen 986–995
- Development of a Matrix Tool for the Prediction of *Vibrio* Species in Oysters Harvested from North Carolina B. A. Froelich, M. Ayrapetyan, P. Fowler, J. D. Oliver, R. T. Noble 1111–1119
- The Zeamine Antibiotics Affect the Integrity of Bacterial Membranes Joleen Masschelein, Charlien Clauwers, Karen Stalmans, Koen Nuyts, Wim De Borggraeve, Yves Briers, Abram Aertsen, Chris W. Michiels, Rob Lavigne 1139–1146
- Bacteriophage Resistance Mechanisms in the Fish Pathogen *Flavobacterium psychrophilum*: Linking Genomic Mutations to Changes in Bacterial Virulence Factors Daniel Castillo, Rói Hammershaimb Christiansen, Inger Dalsgaard, Lone Madsen, Mathias Middelboe 1157–1167

PHYSIOLOGY

- Transcriptomic and Physiological Insights into the Robustness of Long Filamentous Cells of *Methanosaeta harundinacea*, Prevalent in Upflow Anaerobic Sludge Blanket Granules Liguang Zhou, Haiying Yu, Guomin Ai, Bo Zhang, Songnian Hu, Xiuzhu Dong 831–839

PLANT MICROBIOLOGY

- Pseudomonas* Strains Naturally Associated with Potato Plants Produce Volatiles with High Potential for Inhibition of *Phytophthora infestans* Lukas Hunziker, Denise Bönisch, Ulrike Groenhagen, Aurélien Bailly, Stefan Schulz, Laure Weisskopf 821–830
- De Novo* Amino Acid Biosynthesis Contributes to *Salmonella enterica* Growth in Alfalfa Seedling Exudates Grace Kwan, Tippapha Pisithkul, Daniel Amador-Noguez, Jeri Barak 861–873
- Interactions between Head Blight Pathogens: Consequences for Disease Development and Toxin Production in Wheat Spikes Dorothee Siou, Sandrine Gélisse, Valérie Laval, Sonia Elbelt, Cédric Repinçay, Marjolaine Bourdat-Deschamps, Frédéric Suffert, Christian Lannou 957–965
- Lipopolysaccharide O-Chain Core Region Required for Cellular Cohesion and Compaction of *In Vitro* and Root Biofilms Developed by *Rhizobium leguminosarum* Daniela M. Russo, Patricia L. Abdian, Diana M. Posadas, Alan Williams, Nicolás Voza, Walter Giordano, Elmar Kanneberg, J. Allan Downie, Angeles Zorreguieta 1013–1023

PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY

- Novel Variant Serotype of *Streptococcus suis* Isolated from Piglets with Meningitis Zihao Pan, Jiale Ma, Wenyang Dong, Wenchao Song, Kaicheng Wang, Chengping Lu, Huochun Yao 976–985
- MS2 Virus Inactivation by Atmospheric-Pressure Cold Plasma Using Different Gas Carriers and Power Levels Yan Wu, Yongdong Liang, Kai Wei, Wei Li, Maosheng Yao, Jue Zhang, Sergey A. Grinshpun 996–1002

High-Resolution Taxonomic Profiling of the Subgingival Microbiome for Biomarker Discovery and Periodontitis Diagnosis

Szymon P. Szafranski, Melissa L. Wos-Oxley, Ramiro Vilchez-Vargas, Ruy Jáuregui, Iris Plumeier, Frank Klawonn, Jürgen Tomasch, Christa Meisinger, Jan Kühnisch, Helena Sztajer, Dietmar H. Pieper, Irene Wagner-Döbler 1047–1058

Inactivation of Murine Norovirus on a Range of Copper Alloy Surfaces Is Accompanied by Loss of Capsid Integrity

Sarah L. Warnes, Emma N. Summersgill, C. William Keevil 1085–1091

Cover photograph (Courtesy of Manfred Rohde, HZI Braunschweig; reprinted with permission): Biofilm comprised of two pathogens that are found in the oral cavity, the fungus *Candida albicans* (red) and the caries-promoting bacterium *Streptococcus mutans* (light brown). A Merlin field emission scanning electron microscope (Zeiss, Oberkochen, Germany) was used. Color was added through Adobe Photoshop CS5. (See related article on page 1047.)

TABLE OF CONTENTS

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors

1189

MINIREVIEW

Atmospheric Hydrogen Scavenging: from Enzymes to Ecosystems

Chris Greening, Philippe Constant, Kiel Hards, Sergio E. Morales, John G. Oakeshott, Robyn J. Russell, Matthew C. Taylor, Michael Berney, Ralf Conrad, Gregory M. Cook 1190–1199

BIOTECHNOLOGY

Development of a Reverse Genetic System for Infectious Salmon Anemia Virus: Rescue of Recombinant Fluorescent Virus by Using Salmon Internal Transcribed Spacer Region 1 as a Novel Promoter

Daniela Toro-Ascuy, Carolina Tambley, Carolina Beltran, Carolina Mascayano, Nicolas Sandoval, Eduardo Olivares, Rafael A. Medina, Eugenio Spencer, Marcelo Cortez-San Martín 1210–1224

Escherichia coli Enoyl-Acyl Carrier Protein Reductase (FabI) Supports Efficient Operation of a Functional Reversal of the β -Oxidation Cycle

Jacob E. Vick, James M. Clomburg, Matthew D. Blankschien, Alexander Chou, Seohyoung Kim, Ramon Gonzalez 1406–1416

Functional Expression of Full-Length TrkA in the Prokaryotic Host *Magnetospirillum magneticum* AMB-1 by Using a Magnetosome Display System

Toru Honda, Takayuki Yasuda, Tsuyoshi Tanaka, Koji Hagiwara, Tohru Arai, Tomoko Yoshino 1472–1476

Transcriptomic Analysis of Xylan Utilization Systems in *Paenibacillus* sp. Strain JDR-2

Neha Sawhney, Casey Crooks, Franz St. John, James F. Preston 1490–1501

ENVIRONMENTAL MICROBIOLOGY

Growth of Anaerobic Methane-Oxidizing Archaea and Sulfate-Reducing Bacteria in a High-Pressure Membrane Capsule Bioreactor

Peer H. A. Timmers, Jarno Gieteling, H. C. Aura Widjaja-Greefkes, Caroline M. Plugge, Alfons J. M. Stams, Piet N. L. Lens, Roel J. W. Meulepas 1286–1296

Complex Population Structure of *Borrelia burgdorferi* in Southeastern and South Central Canada as Revealed by Phylogeographic Analysis

S. Mechai, G. Margos, E. J. Feil, L. R. Lindsay, N. H. Ogden 1309–1318

Metatranscriptomic Analyses of Plant Cell Wall Polysaccharide Degradation by Microorganisms in the Cow Rumen

Xin Dai, Yan Tian, Jinting Li, Xiaoyun Su, Xuewei Wang, Shengguo Zhao, Li Liu, Yingfeng Luo, Di Liu, Huajun Zheng, Jiaqi Wang, Zhiyang Dong, Songnian Hu, Li Huang 1375–1386

Diversity of Methane-Cycling Archaea in Hydrothermal Sediment Investigated by General and Group-Specific PCR Primers

Mark A. Lever, Andreas P. Teske 1426–1441

Hierarchy in Pentose Sugar Metabolism in *Clostridium acetobutylicum*

Ludmilla Aristilde, Ian A. Lewis, Junyoung O. Park, Joshua D. Rabinowitz 1452–1462



ENZYMOLGY AND PROTEIN ENGINEERING

Overexpression of Penicillin V Acylase from *Streptomyces lavendulae* and Elucidation of Its Catalytic Residues

Jesús Torres-Bacete, Daniel Hormigo, Raquel Torres-Gúzman, Miguel Arroyo, María Pilar Castellón, José Luis García, Carmen Acebal, Isabel de la Mata 1225–1233

XoxF-Type Methanol Dehydrogenase from the Anaerobic Methanotroph "*Candidatus Methylopirabilis oxyfera*"

Ming L. Wu, Hans J. C. T. Wessels, Arjan Pol, Huub J. M. Op den Camp, Mike S. M. Jetten, Laura van Niftrik, Jan T. Keltjens 1442–1451

EVOLUTIONARY AND GENOMIC MICROBIOLOGY

Detection and Genomic Characterization of Motility in *Lactobacillus curvatus*: Confirmation of Motility in a Species outside the *Lactobacillus salivarius* Clade

Fabien J. Cousin, Shónagh M. Lynch, Hugh M. B. Harris, Angela McCann, Denise B. Lynch, B. Anne Neville, Tomohiro Irisawa, Sanae Okada, Akihito Endo, Paul W. O'Toole 1297–1308

Genomic Potential for Polysaccharide Deconstruction in Bacteria

Renaud Berlemont, Adam C. Martiny 1513–1519

Multilocus Sequence Analysis of Xanthomonads Causing Bacterial Spot of Tomato and Pepper Plants Reveals Strains Generated by Recombination among Species and Recent Global Spread of *Xanthomonas gardneri*

Sujan Timilsina, Mustafa O. Jibrin, Neha Potnis, Gerald V. Minsavage, Misrak Kebede, Allison Schwartz, Rebecca Bart, Brian Staskawicz, Claudine Boyer, Gary E. Vallad, Olivier Pruvost, Jeffrey B. Jones, Erica M. Goss 1520–1529

FOOD MICROBIOLOGY

Transcriptomic Analysis of Temperature Responses of *Aspergillus kawachii* during Barley Koji Production

Taiki Futagami, Kazuki Mori, Shotaro Wada, Hiroko Ida, Yasuhiro Kajiwara, Hideharu Takashita, Kosuke Tashiro, Osamu Yamada, Toshiro Omori, Satoru Kuhara, Masatoshi Goto 1353–1363

GENETICS AND MOLECULAR BIOLOGY

Genome-Wide Identification of Genes Necessary for Biofilm Formation by Nosocomial Pathogen *Stenotrophomonas maltophilia* Reveals that Orphan Response Regulator FsnR Is a Critical Modulator

Xiu-Min Kang, Fang-Fang Wang, Huan Zhang, Qi Zhang, Wei Qian 1200–1209

Role of Plasmids in *Lactobacillus brevis* BSO 464 Hop Tolerance and Beer Spoilage

Jordyn Bergsveinson, Nina Baecker, Vanessa Pittet, Barry Ziola 1234–1241

Sensor Kinase PA4398 Modulates Swarming Motility and Biofilm Formation in *Pseudomonas aeruginosa* PA14

Janine Strehmel, Anke Neidig, Michael Nusser, Robert Geffers, Gerald Brenner-Weiss, Joerg Overhage 1274–1285

Novel Phage Group Infecting *Lactobacillus delbrueckii* subsp. *lactis*, as Revealed by Genomic and Proteomic Analysis of Bacteriophage Ldl1

Eoghan Casey, Jennifer Mahony, Horst Neve, Jean-Paul Noben, Fabio Dal Bello, Douwe van Sinderen 1319–1326

Global Transcriptional Response of *Clostridium difficile* Carrying the ϕ CD38-2 Prophage

Ognjen Sekulovic, Louis-Charles Fortier 1364–1374

Exopolysaccharide Production and Ropy Phenotype Are Determined by Two Gene Clusters in Putative Probiotic Strain *Lactobacillus paraplantarum* BGCG11

Milica Zivkovic, Marija Miljkovic, Patricia Ruas-Madiedo, Ivana Strahinic, Maja Tolinacki, Natasa Golic, Milan Kojic 1387–1396

Gut Symbionts from Distinct Hosts Exhibit Genotoxic Activity via Divergent Colibactin Biosynthesis Pathways

Philipp Engel, Maria I. Vizcaino, Jason M. Crawford 1502–1512

GEOMICROBIOLOGY

- Geochemical Niches of Iron-Oxidizing Acidophiles in Acidic Coal Mine Drainage
Daniel S. Jones, Courtney Kohl, Christen Grettenberger, Lance N. Larson, William D. Burgos, Jennifer L. Macalady 1242–1250

INVERTEBRATE MICROBIOLOGY

- New Mode of Energy Metabolism in the Seventh Order of Methanogens as Revealed by Comparative Genome Analysis of "*Candidatus Methanoplasma termitum*"
Kristina Lang, Jörg Schuldes, Andreas Klingl, Anja Poehlein, Rolf Daniel, Andreas Brune 1338–1352

METHODS

- Ratiometric Imaging of Extracellular pH in Bacterial Biofilms with C-SNARF-4
Sebastian Schlafer, Javier E. Garcia, Matilde Greve, Merete K. Raarup, Bente Nyvad, Irene Dige 1267–1273
- Novel Reporter for Identification of Interference with Acyl Homoserine Lactone and Autoinducer-2 Quorum Sensing
Nancy Weiland-Bräuer, Nicole Pinnow, Ruth A. Schmitz 1477–1489

MICROBIAL ECOLOGY

- Prepartum and Postpartum Rumen Fluid Microbiomes: Characterization and Correlation with Production Traits in Dairy Cows
Fabio S. Lima, Georgios Oikonomou, Svetlana F. Lima, Marcela L. S. Bicalho, Erika K. Ganda, Jose C. de Oliveira Filho, Gustavo Lorenzo, Plamen Trojancanec, Rodrigo C. Bicalho 1327–1337
- Colonization in the Photic Zone and Subsequent Changes during Sinking Determine Bacterial Community Composition in Marine Snow
Stefan Thiele, Bernhard M. Fuchs, Rudolf Amann, Morten H. Iversen 1463–1471
- Bacterial Communities Associated with Surfaces of Leafy Greens: Shift in Composition and Decrease in Richness over Time
Merete Wiken Dees, Erik Lysøe, Berit Nordskog, May Bente Brurberg 1530–1539

PHYSIOLOGY

- Phaeobacter* sp. Strain Y4I Utilizes Two Separate Cell-to-Cell Communication Systems To Regulate Production of the Antimicrobial Indigoidine
W. Nathan Cude, Carson W. Prevatte, Mary K. Hadden, Amanda L. May, Russell T. Smith, Caleb L. Swain, Shawn R. Campagna, Alison Buchan 1417–1425

PLANT MICROBIOLOGY

- Emergence Shapes the Structure of the Seed Microbiota
Matthieu Barret, Martial Briand, Sophie Bonneau, Anne Préveaux, Sophie Valière, Olivier Bouchez, Gilles Hunault, Philippe Simoneau, Marie-Agnès Jacques 1257–1266

PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY

- Individual Predisposition to *Staphylococcus aureus* Colonization in Pigs on the Basis of Quantification, Carriage Dynamics, and Serological Profiles
Carmen Espinosa-Gongora, Jan Dahl, Anders Elvstrøm, Willem J. van Wamel, Luca Guardabassi 1251–1256

Prevalence of Carriage of Shiga Toxin-Producing *Escherichia coli* Serotypes O157:H7, O26:H11, O103:H2, O111:H8, and O145:H28 among Slaughtered Adult Cattle in France

Delphine Bibbal, Estelle Loukiadis,
Monique Kérourédan, Franck Ferré,
Françoise Dilasser, Carine Peytavin de
Garam, Philippe Cartier, Eric Oswald,
Emilie Gay, Frédéric Auvray, Hubert
Brugère

1397–1405

TABLE OF CONTENTS

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors

1541

BIOTECHNOLOGY

Engineering of *Glarea lozoyensis* for Exclusive Production of the Pneumocandin B₀ Precursor of the Antifungal Drug Caspofungin Acetate

Li Chen, Qun Yue, Yan Li, Xuemei Niu, Meichun Xiang, Wenzhao Wang, Gerald F. Bills, Xingzhong Liu, Zhiqiang An

1550–1558

Deletion of *PHO13*, Encoding Haloacid Dehalogenase Type IIA Phosphatase, Results in Upregulation of the Pentose Phosphate Pathway in *Saccharomyces cerevisiae*

Soo Rin Kim, Haiqing Xu, Anastashia Lesmana, Uros Kuzmanovic, Matthew Au, Clarissa Florencia, Eun Joong Oh, Guochang Zhang, Kyoung Heon Kim, Yong-Su Jin

1601–1609

Using a Genome-Scale Metabolic Model of *Enterococcus faecalis* V583 To Assess Amino Acid Uptake and Its Impact on Central Metabolism

Nadine Veith, Margrete Solheim, Koen W. A. van Grinsven, Brett G. Olivier, Jennifer Levering, Ruth Grosseholz, Jeroen Hugenholtz, Helge Holo, Ingolf Nes, Bas Teusink, Ursula Kummer

1622–1633

Genetic Tools for the Industrially Promising Methanotroph *Methylomicrobium buryatense*

Aaron W. Puri, Sarah Owen, Frances Chu, Ted Chavkin, David A. C. Beck, Marina G. Kalyuzhnaya, Mary E. Lidstrom

1775–1781

Isolation and Screening of Thermophilic Bacilli from Compost for Electrotransformation and Fermentation: Characterization of *Bacillus smithii* ET 138 as a New Biocatalyst

Elleke F. Bosma, Antonius H. P. van de Weijer, Martinus J. A. Daas, John van der Oost, Willem M. de Vos, Richard van Kranenburg

1874–1883

ENVIRONMENTAL MICROBIOLOGY

Mechanisms of Methods for Hepatitis C Virus Inactivation

Stephanie Pfaender, Janine Brinkmann, Daniel Todt, Nina Riebesehl, Joerg Steinmann, Jochen Steinmann, Thomas Pietschmann, Eike Steinmann

1616–1621

Clearance of *Escherichia coli* O157:H7 Infection in Calves by Rectal Administration of Bovine Lactoferrin

E. Kieckens, J. Rybarczyk, L. De Zutter, L. Duchateau, D. Vanrompay, E. Cox

1644–1651

A Chlorogenic Acid Esterase with a Unique Substrate Specificity from *Ustilago maydis*

Annabel Nieter, Paul Haase-Aschoff, Sebastian Kelle, Diana Linke, Ulrich Krings, Lutz Popper, Ralf G. Berger

1679–1688

The *Bacillus cereus* Group Is an Excellent Reservoir of Novel Lanthipeptides

Bingyue Xin, Jinshui Zheng, Ziya Xu, Xiaoling Song, Lifang Ruan, Donghai Peng, Ming Sun

1765–1774

Impact of the Use of β -Lactam Antimicrobials on the Emergence of *Escherichia coli* Isolates Resistant to Cephalosporins under Standard Pig-Rearing Conditions

Karla Cameron-Veas, Marc Solà-Ginés, Miguel A. Moreno, Lorenzo Fraile, Lourdes Migura-García

1782–1787

Accumulation of Reserve Carbohydrate by Rumen Protozoa and Bacteria in Competition for Glucose

Bethany L. Denton, Leanne E. Diese, Jeffrey L. Firkins, Timothy J. Hackmann

1832–1838

Iron Corrosion Induced by Nonhydrogenotrophic Nitrate-Reducing *Prolixibacter* sp. Strain MIC1-1

Takao Iino, Kimio Ito, Satoshi Wakai, Hirohito Tsurumaru, Moriya Ohkuma, Shigeaki Harayama

1839–1846

ENZYMOLGY AND PROTEIN ENGINEERING

Phosphoryl Transfer from α -D-Glucose 1-Phosphate Catalyzed by *Escherichia coli* Sugar-Phosphate Phosphatases of Two Protein Superfamily Types

Patricia Wildberger, Martin Pfeiffer, 1559–1572
Lothar Brecker, Gerald N. Rechberger,
Ruth Birner-Gruenberger, Bernd
Nidetzky

Genetic Engineering Activates Biosynthesis of Aromatic Fumaric Acid Amides in the Human Pathogen *Aspergillus fumigatus*

Daniel Kalb, Thorsten Heinekamp, 1594–1600
Gerald Lackner, Daniel H. Scharf,
Hans-Martin Dahse, Axel A. Brakhage,
Dirk Hoffmeister

Improved Antimicrobial Activities of Synthetic-Hybrid Bacteriocins Designed from Enterocin E50-52 and Pediocin PA-1

Santosh Kumar Tiwari, Katia 1661–1667
Sutyak Noll, Veronica L. Cavera,
Michael L. Chikindas

Malonic Semialdehyde Reductase from the Archaeon *Nitrosopumilus maritimus* Is Involved in the Autotrophic 3-Hydroxypropionate/4-Hydroxybutyrate Cycle

Julia Otte, Achim Mall, Daniel M. 1700–1707
Schubert, Martin Könneke, Ivan A.
Berg

Alginate Lyases from Alginate-Degrading *Vibrio splendidus* 12B01 Are Endolytic

Ahmet H. Badur, Sujit Sadashiv Jagtap, 1865–1873
Geethika Yalamanchili, Jung-Kul Lee,
Huimin Zhao, Christopher V. Rao

EVOLUTIONARY AND GENOMIC MICROBIOLOGY

Integrative Conjugative Elements Are Widespread in Field Isolates of *Mycoplasma* Species Pathogenic for Ruminants

Florence Tardy, Virginie Mick, Emilie 1634–1643
Dordet-Frisoni, Marc Serge Marena,
Pascal Sirand-Pugnet, Alain Blanchard,
Christine Citti

Population Biology of Intestinal *Enterococcus* Isolates from Hospitalized and Nonhospitalized Individuals in Different Age Groups

Ana P. Tedim, Patricia Ruiz-Garbajosa, 1820–1831
Jukka Corander, Concepción M.
Rodríguez, Rafael Cantón, Rob J.
Willems, Fernando Baquero, Teresa M.
Coque

FOOD MICROBIOLOGY

Evaluating the Occurrence of *Escherichia albertii* in Chicken Carcass Rinses by PCR, Vitek Analysis, and Sequencing of the *rpoB* Gene

Rebecca L. Lindsey, Paula J. 1727–1734
Fedorka-Cray, Melanie Abley, Jennifer
B. Turpin, Richard J. Meinersmann

Exploring the Diversity of *Listeria monocytogenes* Biofilm Architecture by High-Throughput Confocal Laser Scanning Microscopy and the Predominance of the Honeycomb-Like Morphotype

Morgan Guilbaud, Pascal Piveteau, 1813–1819
Mickaël Desvaux, Sylvain Brisse,
Romain Briandet

GENETICS AND MOLECULAR BIOLOGY

A Vector System for ABC Transporter-Mediated Secretion and Purification of Recombinant Proteins in *Pseudomonas* Species

Jaewook Ryu, Ukjin Lee, Jiye Park, 1744–1753
Do-Hyun Yoo, Jung Hoon Ahn

Transcriptional Analysis of *Deinococcus radiodurans* Reveals Novel Small RNAs That Are Differentially Expressed under Ionizing Radiation

Chen-Hsun Tsai, Rick Liao, Brendan 1754–1764
Chou, Lydia M. Contreras

The Mannitol Utilization System of the Marine Bacterium *Zobellia galactanivorans*

Agnès Groisillier, Aurore Labourel, 1799–1812
Gurvan Michel, Thierry Tonon

INVERTEBRATE MICROBIOLOGY

Field and Experimental Evidence of *Vibrio parahaemolyticus* as the Causative Agent of Acute Hepatopancreatic Necrosis Disease of Cultured Shrimp (*Litopenaeus vannamei*) in Northwestern Mexico

Sonia A. Soto-Rodríguez, Bruno 1689–1699
Gomez-Gil, Rodolfo Lozano-Olvera,
Miguel Betancourt-Lozano, Maria
Soledad Morales-Covarrubias

Resistance of <i>Trichoplusia ni</i> Populations Selected by <i>Bacillus thuringiensis</i> Sprays to Cotton Plants Expressing Pyramided <i>Bacillus thuringiensis</i> Toxins Cry1Ac and Cry2Ab	Wendy Kain, Xiaozhao Song, Alida F. Janmaat, Jian-Zhou Zhao, Judith Myers, Anthony M. Shelton, Ping Wang	1884–1890
METHODS		
CATCh, an Ensemble Classifier for Chimera Detection in 16S rRNA Sequencing Studies	Mohamed Mysara, Yvan Saeys, Natalie Leys, Jeroen Raes, Pieter Monsieurs	1573–1584
Organic Substances Interfere with Reverse Transcription-Quantitative PCR-Based Virus Detection in Water Samples	Akihiko Hata, Hiroyuki Katayama, Hiroaki Furumai	1585–1593
Rapid Method Using Two Microbial Enzymes for Detection of L-Abrine in Food as a Marker for the Toxic Protein Abrin	Anthony G. Dodge, Kelvin Carrasquillo, Luis Rivera, Lei Xu, Lawrence P. Wackett, Michael J. Sadowsky	1610–1615
Use of mCherry Red Fluorescent Protein for Studies of Protein Localization and Gene Expression in <i>Clostridium difficile</i>	Eric M. Ransom, Craig D. Ellermeier, David S. Weiss	1652–1660
MICROBIAL ECOLOGY		
Community Structure and Biogeochemical Impacts of Microbial Life on Floating Pumice	J. J. Elser, M. Bastidas Navarro, J. R. Corman, H. Emick, M. Kellom, C. Laspoumaderes, Z. M. Lee, A. T. Poret-Peterson, E. Balseiro, B. Modenutti	1542–1549
<i>In Situ</i> Prebiotics for Weaning Piglets: <i>In Vitro</i> Production and Fermentation of Potato Galacto-Rhamnogalacturonan	Mikael Lenz Strube, Helle Christine Ravn, Hans-Christian Ingerslev, Anne Strunge Meyer, Mette Boye	1668–1678
Bacterial Diversity in the South Adriatic Sea during a Strong, Deep Winter Convection Year	M. Korlević, P. Pop Ristova, R. Garić, R. Amann, S. Orlić	1715–1726
PHYSIOLOGY		
A Novel CO-Responsive Transcriptional Regulator and Enhanced H ₂ Production by an Engineered <i>Thermococcus onnurineus</i> NA1 Strain	Min-Sik Kim, Ae Ran Choi, Seong Hyuk Lee, Hae-Chang Jung, Seung Seob Bae, Tae-Jun Yang, Jeong Ho Jeon, Jae Kyu Lim, Hwan Youn, Tae Wan Kim, Hyun Sook Lee, Sung Gyun Kang	1708–1714
Comparative Proteome Analysis Reveals Four Novel Polyhydroxybutyrate (PHB) Granule-Associated Proteins in <i>Ralstonia eutropha</i> H16	Anna Sznajder, Daniel Pfeiffer, Dieter Jendrossek	1847–1858
PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY		
Genotypic and Phenotypic Characterization of <i>Escherichia coli</i> Isolates from Feces, Hands, and Soils in Rural Bangladesh via the Colilert Quanti-Tray System	Timothy R. Julian, M. Aminul Islam, Amy J. Pickering, Subarna Roy, Erica R. Fuhrmeister, Ayse Ercumen, Angela Harris, Jason Bishai, Kellogg J. Schwab	1735–1743
Pathogenic Potential, Genetic Diversity, and Population Structure of <i>Escherichia coli</i> Strains Isolated from a Forest-Dominated Watershed (Comox Lake) in British Columbia, Canada	Abhirosh Chandran, Asit Mazumder	1788–1798

**Environmental Surveillance of Poliovirus in Sewage Water
around the Introduction Period for Inactivated Polio Vaccine in
Japan**

Tomofumi Nakamura, Mitsuhiro
Hamasaki, Hideaki Yoshitomi, Tetsuya
Ishibashi, Chiharu Yoshiyama, Eriko
Maeda, Nobuyuki Sera, Hiromu
Yoshida

1859–1864

TABLE OF CONTENTS

SPOTLIGHT

- Articles of Significant Interest Selected from This Issue by the Editors 1891

MINIREVIEW

- Microbial Engineering for Aldehyde Synthesis Aditya M. Kunjapur, Kristala L. J. Prather 1892–1901

BIODEGRADATION

- Metabolism of 2-Methylpropene (Isobutylene) by the Aerobic Bacterium *Mycobacterium* sp. Strain ELW1 Samantha Kottegoda, Elizabeth Waligora, Michael Hyman 1966–1976
- Involvement of the Cytochrome P450 System EthBAD in the N-Deethoxymethylation of Acetochlor by *Rhodococcus* sp. Strain T3-1 Fei Wang, Jie Zhou, Zhoukun Li, Weiliang Dong, Ying Hou, Yan Huang, Zhongli Cui 2182–2188

BIOTECHNOLOGY

- Microbial Production of Aliphatic (S)-Epoxyalkanes by Using *Rhodococcus* sp. Strain ST-10 Styrene Monooxygenase Expressed in Organic-Solvent-Tolerant *Kocuria rhizophila* DC2201 Hiroshi Toda, Takuya Ohuchi, Ryouta Imae, Nobuya Itoh 1919–1925
- L-Lactate Production from Biodiesel-Derived Crude Glycerol by Metabolically Engineered *Enterococcus faecalis*: Cytotoxic Evaluation of Biodiesel Waste and Development of a Glycerol-Inducible Gene Expression System Yukū Doi 2082–2089
- Improvement of LysM-Mediated Surface Display of Designed Ankyrin Repeat Proteins (DARPs) in Recombinant and Nonrecombinant Strains of *Lactococcus lactis* and *Lactobacillus* Species Petra Zadravec, Borut Štrukelj, Aleš Berlec 2098–2106
- Metabolic Engineering of *Corynebacterium glutamicum* for Methanol Metabolism Sabrina Witthoff, Katja Schmitz, Sebastian Niedenführ, Katharina Nöh, Stephan Noack, Michael Bott, Jan Marienhagen 2215–2225

ENVIRONMENTAL MICROBIOLOGY

- Non-O1/Non-O139 *Vibrio cholerae* Carrying Multiple Virulence Factors and *V. cholerae* O1 in the Chesapeake Bay, Maryland Daniela Ceccarelli, Arlene Chen, Nur A. Hasan, Shah M. Rashed, Anwar Huq, Rita R. Colwell 1909–1918
- Inhibitory Effects of C₂ to C₁₀ 1-Alkynes on Ammonia Oxidation in Two *Nitrososphaera* Species A. E. Taylor, K. Taylor, B. Tennigkeit, M. Palatinszky, M. Stieglmeier, D. D. Myrold, C. Schleper, M. Wagner, P. J. Bottomley 1942–1948
- Oligopolyphenylenevinylene-Conjugated Oligoelectrolyte Membrane Insertion Molecules Selectively Disrupt Cell Envelopes of Gram-Positive Bacteria Jamie Hinks, Wee Han Poh, Justin Jang Hann Chu, Joachim Say Chye Loo, Guillermo C. Bazan, Lynn E. Hancock, Stefan Wuertz 1949–1958
- Arsenite Oxidase Also Functions as an Antimonite Oxidase Qian Wang, Thomas P. Warelow, Yoon-Suk Kang, Christine Romano, Thomas H. Osborne, Corinne R. Lehr, Brian Bothner, Timothy R. McDermott, Joanne M. Santini, Gejiao Wang 1959–1965

A Halophilic Bacterium Inhabiting the Warm, CaCl₂-Rich Brine of the Perennially Ice-Covered Lake Vanda, McMurdo Dry Valleys, Antarctica

George S. Tregoning, Megan L. Kempfer, Deborah O. Jung, Vladimir A. Samarkin, Samantha B. Joye, Michael T. Madigan 1988–1995

Efficient Metabolic Exchange and Electron Transfer within a Syntrophic Trichloroethene-Degrading Coculture of *Dehalococcoides mccartyi* 195 and *Syntrophomonas wolfei*

Xinwei Mao, Benoit Stenuit, Alexandra Polasko, Lisa Alvarez-Cohen 2015–2024

Biogeography of Heterotrophic Flagellate Populations Indicates the Presence of Generalist and Specialist Taxa in the Arctic Ocean

Mary Thaler, Connie Lovejoy 2137–2148

Retention in Treated Wastewater Affects Survival and Deposition of *Staphylococcus aureus* and *Escherichia coli* in Sand Columns

Jiuyi Li, Xiaokang Zhao, Xiujun Tian, Jin Li, Jelmer Sjollema, Aimin Wang 2199–2205

ENZYMOLGY AND PROTEIN ENGINEERING

Enhancing the Secretion Efficiency and Thermostability of a *Bacillus deramificans* Pullulanase Mutant (D437H/D503Y) by N-Terminal Domain Truncation

Xuguo Duan, Jing Wu 1926–1931

AmyM, a Novel Maltohexaose-Forming α -Amylase from *Coralloccoccus* sp. Strain EGB

Zhoukun Li, Jiale Wu, Biying Zhang, Fei Wang, Xianfeng Ye, Yan Huang, Qiang Huang, Zhongli Cui 1977–1987

Distinct Roles for Carbohydrate-Binding Modules of Glycoside Hydrolase 10 (GH10) and GH11 Xylanases from *Caldicellulosiruptor* sp. Strain F32 in Thermostability and Catalytic Efficiency

Dong-Dong Meng, Yu Ying, Xiao-Hua Chen, Ming Lu, Kang Ning, Lu-Shan Wang, Fu-Li Li 2006–2014

Identification and Characterization of Carboxyl Esterases of Gill Chamber-Associated Microbiota in the Deep-Sea Shrimp *Rimicaris exoculata* by Using Functional Metagenomics

María Alcaide, Anatoli Tchigvintsev, Mónica Martínez-Martínez, Ana Popovic, Oleg N. Reva, Álvaro Lafraya, Rafael Bargiela, Taras Y. Nechitaylo, Ruth Matesanz, Marie-Anne Cambon-Bonavita, Mohamed Jebbar, Michail M. Yakimov, Alexei Savchenko, Olga V. Golyshina, Alexander F. Yakunin, Peter N. Golyshin, Manuel Ferrer, for The MAMBA Consortium 2125–2136

FOOD MICROBIOLOGY

Production of Buttery-Odor Compounds and Transcriptome Response in *Leuconostoc gelidum* subsp. *gasicomitatum* LMG18811^T during Growth on Various Carbon Sources

Elina Jääskeläinen, Sanna Vesterinen, Jevgeni Parshintsev, Per Johansson, Marja-Liisa Riekkola, Johanna Björkroth 1902–1908

Genetic Determinants of Reutericyclin Biosynthesis in *Lactobacillus reuteri*

Xiaoxi B. Lin, Christopher T. Lohans, Rebecca Duar, Jinshui Zheng, John C. Vederas, Jens Walter, Michael Gänzle 2032–2041

Physical Covering for Control of *Escherichia coli* O157:H7 and *Salmonella* spp. in Static and Windrow Composting Processes

Jitendra R. Patel, Irene Yossa, Dumitru Macarisin, Patricia Millner 2063–2074

Effect of Temperature and Relative Humidity on the Survival of Foodborne Viruses during Food Storage

Su Jin Lee, Jiyeon Si, Hyun Sun Yun, Gwangpyo Ko 2075–2081

Listeria Phage and Phage Tail Induction Triggered by Components of Bacterial Growth Media (Phosphate, LiCl, Nalidixic Acid, and Acriflavine)

Jean-Paul Lemaître, Amandine Duroux, Romain Pimpie, Jean-Marie Duez, Marie-Louise Milat 2117–2124

Effects of Norspermidine and Spermidine on Biofilm Formation by Potentially Pathogenic *Escherichia coli* and *Salmonella enterica* Wild-Type Strains

Live L. Nesse, Kristin Berg, Lene K. Vestby 2226–2232

GENETICS AND MOLECULAR BIOLOGY

Acid-Adapted Strains of *Escherichia coli* K-12 Obtained by Experimental Evolution

Mark M. Harden, Amanda He, Kaitlin Creamer, Michelle W. Clark, Issam Hamdallah, Keith A. Martinez II, Robert L. Kresslein, Sean P. Bush, Joan L. Slonczewski 1932–1941

Piliation of *Lactobacillus rhamnosus* GG Promotes Adhesion, Phagocytosis, and Cytokine Modulation in Macrophages

Cynthia E. Vargas García, Mariya Petrova, Ingmar J. J. Claes, Ilke De Boeck, Tine L. A. Verhoeven, Ellen Dilissen, Ingemar von Ossowski, Airi Palva, Dominique M. Bullens, Jos Vanderleyden, Sarah Lebeer 2050–2062

Reduced Infectivity in Cattle for an Outer Membrane Protein Mutant of *Anaplasma marginale*

Francy L. Crosby, Kelly A. Brayton, Forgivemore Magunda, Ulrike G. Munderloh, Karen L. Kelley, Anthony F. Barbet 2206–2214

GEOMICROBIOLOGY

Anoxygenic Photosynthesis Controls Oxygenic Photosynthesis in a Cyanobacterium from a Sulfidic Spring

Judith M. Klatt, Mohammad A. A. Al-Najjar, Pelin Yilmaz, Gaute Lavik, Dirk de Beer, Lubos Polerecky 2025–2031

INVERTEBRATE MICROBIOLOGY

Elizabethkingia anophelis: Molecular Manipulation and Interactions with Mosquito Hosts

Shicheng Chen, Michael Bagdasarian, Edward D. Walker 2233–2243

METHODS

Counting Viruses and Bacteria in Photosynthetic Microbial Mats

Cátia Carreira, Marc Staal, Mathias Middelboe, Corina P. D. Brussaard 2149–2155

MICROBIAL ECOLOGY

Resistant Microbial Cooccurrence Patterns Inferred by Network Topology

Sari Peura, Stefan Bertilsson, Roger I. Jones, Alexander Eiler 2090–2097

Profiling Microbial Communities in Manganese Remediation Systems Treating Coal Mine Drainage

Dominique L. Chaput, Colleen M. Hansel, William D. Burgos, Cara M. Santelli 2189–2198

PHYSIOLOGY

Metabolic Engineering of an ATP-Neutral Embden-Meyerhof-Parnas Pathway in *Corynebacterium glutamicum*: Growth Restoration by an Adaptive Point Mutation in NADH Dehydrogenase

Gajendar Komati Reddy, Steffen N. Lindner, Volker F. Wendisch 1996–2005

Reduction of the Temperature Sensitivity of *Halomonas hydrothermalis* by Iron Starvation Combined with Microaerobic Conditions

Jesse P. Harrison, John E. Hallsworth, Charles S. Cockell 2156–2162

PLANT MICROBIOLOGY

Xylan Utilization Regulon in *Xanthomonas citri* pv. *citri* Strain 306: Gene Expression and Utilization of Oligoxylosides

V. Chow, D. Shantharaj, Y. Guo, G. Nong, G. V. Minsavage, J. B. Jones, J. F. Preston 2163–2172

Rhizosphere Microbial Community Composition Affects Cadmium and Zinc Uptake by the Metal-Hyperaccumulating Plant *Arabidopsis halleri*

E. Marie Muehe, Pascal Weigold, Irini J. Adaktylou, Britta Planer-Friedrich, Ute Kraemer, Andreas Kappler, Sebastian Behrens 2173–2181

Different Bacterial Populations Associated with the Roots and Rhizosphere of Rice Incorporate Plant-Derived Carbon

Marcela Hernández, Marc G. Dumont, Quan Yuan, Ralf Conrad 2244–2253

**PUBLIC AND ENVIRONMENTAL HEALTH
MICROBIOLOGY**

**Comparison of Concentration Methods for Quantitative
Detection of Sewage-Associated Viral Markers in Environmental
Waters**

W. Ahmed, V. J. Harwood, P. Gyawali,
J. P. S. Sidhu, S. Toze

2042–2049

**Temporal Stability of the Microbial Community in Sewage-
Polluted Seawater Exposed to Natural Sunlight Cycles and
Marine Microbiota**

Lauren M. Sassoubre, Kevan M.
Yamahara, Alexandria B. Boehm

2107–2116

TABLE OF CONTENTS

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors

2255

BIOTECHNOLOGY

Improved Production of Propionic Acid in *Propionibacterium jensenii* via Combinational Overexpression of Glycerol Dehydrogenase and Malate Dehydrogenase from *Klebsiella pneumoniae*

Long Liu, Xin Zhuge, Hyun-dong Shin, Rachel R. Chen, Jianghua Li, Guocheng Du, Jian Chen 2256–2264

Effective Trapping of Fruit Flies with Cultures of Metabolically Modified Acetic Acid Bacteria

Yuri Ishii, Naoki Akasaka, Itsuko Goda, Hisao Sakoda, Shinsuke Fujiwara 2265–2273

Reassessment of the Transhydrogenase/Malate Shunt Pathway in *Clostridium thermocellum* ATCC 27405 through Kinetic Characterization of Malic Enzyme and Malate Dehydrogenase

M. Taillefer, T. Rydzak, D. B. Levin, I. J. Oresnik, R. Sparling 2423–2432

Nitric Oxide Treatment for the Control of Reverse Osmosis Membrane Biofouling

Robert J. Barnes, Jiun Hui Low, Ratnaharika R. Bandi, Martin Tay, Felicia Chua, Theingi Aung, Anthony G. Fane, Staffan Kjelleberg, Scott A. Rice 2515–2524

ENVIRONMENTAL MICROBIOLOGY

Genotype-Specific Variation in the Structure of Root Fungal Communities Is Related to Chickpea Plant Productivity

Navid Bazghaleh, Chantal Hamel, Yantāf Gan, Bunyamin Tar'an, Joan Diane Knight 2368–2377

Large-Scale ¹³C Flux Profiling Reveals Conservation of the Entner-Doudoroff Pathway as a Glycolytic Strategy among Marine Bacteria That Use Glucose

Arne Klingner, Annekathrin Bartsch, Marco Dogs, Irene Wagner-Döbler, Dieter Jahn, Meinhard Simon, Thorsten Brinkhoff, Judith Becker, Christoph Wittmann 2408–2422

Methanobactin from *Methylocystis* sp. Strain SB2 Affects Gene Expression and Methane Monooxygenase Activity in *Methylosinus trichosporium* OB3b

Muhammad Farhan Ul-Haque, Bhagyalakshmi Kalidass, Alexey Vorobev, Bipin S. Baral, Alan A. DiSpirito, Jeremy D. Semrau 2466–2473

Sediment and Vegetation as Reservoirs of *Vibrio vulnificus* in the Tampa Bay Estuary and Gulf of Mexico

Eva Chase, Suzanne Young, Valerie J. Harwood 2489–2494

Molecular Gene Profiling of *Clostridium botulinum* Group III and Its Detection in Naturally Contaminated Samples Originating from Various European Countries

Cedric Woudstra, Caroline Le Maréchal, Rozenn Souillard, Marie-Hélène Bayon-Auboyer, Fabrizio Anniballi, Bruna Auricchio, Dario De Medici, Luca Bano, Miriam Koşene, Marie-Hélène Sansonetti, Denise Desoutter, Eva-Maria Hansbauer, Martin B. Dorner, Brigitte G. Dorner, Patrick Fach 2495–2505

Natural Hot Spots for Gain of Multiple Resistances: Arsenic and Antibiotic Resistances in Heterotrophic, Aerobic Bacteria from Marine Hydrothermal Vent Fields

Pedro Farias, Christophe Espírito Santo, Rita Branco, Romeu Francisco, Susana Santos, Lars Hansen, Soren Sorensen, Paula V. Morais 2534–2543

Genome-Wide Transcriptional Responses to Carbon Starvation in Nongrowing <i>Lactococcus lactis</i>	Onur Ercan, Michiel Wels, Eddy J. Smid, Michiel Kleerebezem	2554–2561
ENZYMOLGY AND PROTEIN ENGINEERING		
Evolutionary Expansion of the Amidohydrolase Superfamily in Bacteria in Response to the Synthetic Compounds Molinate and Diuron	Elena Sugrue, Nicholas J. Fraser, Davis H. Hopkins, Paul D. Carr, Jeevan L. Khurana, John G. Oakeshott, Colin Scott, Colin J. Jackson	2612–2624
The Putative Mevalonate Diphosphate Decarboxylase from <i>Picrophilus torridus</i> Is in Reality a Mevalonate-3-Kinase with High Potential for Bioproduction of Isobutene	Luca Rossoni, Stephen J. Hall, Graham Eastham, Peter Licence, Gill Stephens	2625–2634
EVOLUTIONARY AND GENOMIC MICROBIOLOGY		
Thermal and Solvent Stress Cross-Tolerance Conferred to <i>Corynebacterium glutamicum</i> by Adaptive Laboratory Evolution	Shinichi Oide, Wataru Gunji, Yasuhiro Moteki, Shogo Yamamoto, Masako Suda, Toru Jojima, Hideaki Yukawa, Masayuki Inui	2284–2298
FOOD MICROBIOLOGY		
Bacteriophage PBC1 and Its Endolysin as an Antimicrobial Agent against <i>Bacillus cereus</i>	Minsuk Kong, Sangryeol Ryu	2274–2283
Long-Term Study of <i>Vibrio parahaemolyticus</i> Prevalence and Distribution in New Zealand Shellfish	C. D. Cruz, D. Hedderley, G. C. Fletcher	2320–2327
The Global Regulator CodY in <i>Streptococcus thermophilus</i> Controls the Metabolic Network for Escalating Growth in the Milk Environment	W. W. Lu, Y. Wang, T. Wang, J. Kong	2349–2358
The Growing Season, but Not the Farming System, Is a Food Safety Risk Determinant for Leafy Greens in the Mid-Atlantic Region of the United States	Sasha C. Marine, Sivaranjani Pagadala, Fei Wang, Donna M. Pahl, Meredith V. Melendez, Wesley L. Kline, Ruth A. Oni, Christopher S. Walsh, Kathryne L. Everts, Robert L. Buchanan, Shirley A. Micallef	2395–2407
<i>In Vivo</i> Selection To Identify Bacterial Strains with Enhanced Ecological Performance in Symbiotic Applications	Janina A. Krumbek, María X. Maldonado-Gomez, Inés Martínez, Steven A. Frese, Thomas E. Burkey, Karuna Rasineni, Amanda E. Ramer-Tait, Edward N. Harris, Robert W. Hutkins, Jens Walter	2455–2465
Multilocus Sequence Typing of <i>Leuconostoc gelidum</i> subsp. <i>gasicomitatum</i> , a Psychrotrophic Lactic Acid Bacterium Causing Spoilage of Packaged Perishable Foods	Riitta Rahkila, Per Johansson, Elina Säde, Lars Paulin, Petri Auvinen, Johanna Björkroth	2474–2480
Temporal and Spatial Differences in Microbial Composition during the Manufacture of a Continental-Type Cheese	Daniel J. O'Sullivan, Paul D. Cotter, Orla O'Sullivan, Linda Giblin, Paul L. H. McSweeney, Jeremiah J. Sheehan	2525–2533
Microbial Safety and Sanitary Quality of Strawberry Primary Production in Belgium: Risk Factors for <i>Salmonella</i> and Shiga Toxin-Producing <i>Escherichia coli</i> Contamination	Stefanie Delbeke, Siele Ceuppens, Claudia Titze Hessel, Irene Castro, Liesbeth Jacxsens, Lieven De Zutter, Mieke Uyttendaele	2562–2570
Multifactorial Effects of Ambient Temperature, Precipitation, Farm Management, and Environmental Factors Determine the Level of Generic <i>Escherichia coli</i> Contamination on Preharvested Spinach	Sangshin Park, Sarah Navratil, Ashley Gregory, Arin Bauer, Indumathi Srinath, Barbara Szonyi, Kendra Nightingale, Juan Anciso, Mikyoung Jun, Daikwon Han, Sara Lawhon, Renata Ivanek	2635–2650

INVERTEBRATE MICROBIOLOGY

Female-Specific Specialization of a Posterior End Region of the Midgut Symbiotic Organ in *Plautia splendens* and Allied Stinkbugs

Toshinari Hayashi, Takahiro Hosokawa, Xian-Ying Meng, Ryuichi Koga, Takema Fukatsu 2603–2611

METHODS

Transfer of Plasmid DNA to Clinical Coagulase-Negative Staphylococcal Pathogens by Using a Unique Bacteriophage

Volker Winstel, Petra Kühner, Bernhard Krismer, Andreas Peschel, Holger Rohde 2481–2488

Multigene Editing in the *Escherichia coli* Genome via the CRISPR-Cas9 System

Yu Jiang, Biao Chen, Chunlan Duan, Bingbing Sun, Junjie Yang, Sheng Yang 2506–2514

Inducible Suppression of Global Translation by Overuse of Rare Codons

Hideki Kobayashi 2544–2553

MICROBIAL ECOLOGY

Syntrophic Growth of *Desulfovibrio alaskensis* Requires Genes for H₂ and Formate Metabolism as Well as Those for Flagellum and Biofilm Formation

Lee R. Krumholz, Peter Bradstock, Cody S. Sheik, Yiwei Diao, Ozcan Gazioglu, Yuri Gorby, Michael J. McInerney 2339–2348

Extrahuman Epidemiology of *Acinetobacter baumannii* in Lebanon

Rayane Rafei, Monzer Hamze, H el ene Pailhori es, Matthieu Eveillard, Laurent Marsollier, Marie-Laure Joly-Guillou, Fouad Dabboussi, Marie Kempf 2359–2367

Large Fractions of CO₂-Fixing Microorganisms in Pristine Limestone Aquifers Appear To Be Involved in the Oxidation of Reduced Sulfur and Nitrogen Compounds

Martina Herrmann, Anna Ruzsny ak, Denise M. Akob, Isabel Schulze, Sebastian Opitz, Kai Uwe Totsche, Kirsten K usel 2384–2394

Phylogeny of Intestinal Ciliates, Including *Charonina ventriculi*, and Comparison of Microscopy and 18S rRNA Gene Pyrosequencing for Rumen Ciliate Community Structure Analysis

Sandra Kittelmann, Savannah R. Devente, Michelle R. Kirk, Henning Seedorf, Burk A. Dehority, Peter H. Janssen 2433–2444

Fungal Communities Respond to Long-Term CO₂ Elevation by Community Reassembly

Qichao Tu, Mengting Yuan, Zhili He, Ye Deng, Kai Xue, Liyou Wu, Sarah E. Hobbie, Peter B. Reich, Jizhong Zhou 2445–2454

PHYSIOLOGY

Anthranilate Deteriorates the Structure of *Pseudomonas aeruginosa* Biofilms and Antagonizes the Biofilm-Enhancing Indole Effect

Soo-Kyoung Kim, Ha-Young Park, Joon-Hee Lee 2328–2338

Novel Functions of (p)ppGpp and Cyclic di-GMP in Mycobacterial Physiology Revealed by Phenotype Microarray Analysis of Wild-Type and Isogenic Strains of *Mycobacterium smegmatis*

Kuldeepkumar Ramnaresh Gupta, Sanjay Kasetty, Dipankar Chatterji 2571–2578

PLANT MICROBIOLOGY

Novel Hypovirulence-Associated RNA Mycovirus in the Plant-Pathogenic Fungus *Botrytis cinerea*: Molecular and Biological Characterization

Lin Yu, Wen Sang, Ming-De Wu, Jing Zhang, Long Yang, Ying-Jun Zhou, Wei-Dong Chen, Guo-Qing Li 2299–2310

Decreasing Global Transcript Levels over Time Suggest that Phytoplasma Cells Enter Stationary Phase during Plant and Insect Colonization

D. Pacifico, L. Galetto, M. Rashidi, S. Abb a, S. Palmano, G. Firrao, D. Bosco, C. Marzachi 2591–2602

**PUBLIC AND ENVIRONMENTAL HEALTH
MICROBIOLOGY**

Elucidation of Echovirus 30's Origin and Transmission during the 2012 Aseptic Meningitis Outbreak in Guangdong, China, through Continuing Environmental Surveillance	Jing Lu, Huanying Zheng, Xue Guo, Yong Zhang, Hui Li, Leng Liu, Hanri Zeng, Ling Fang, Yanling Mo, Hiromu Yoshida, Lina Yi, Tao Liu, Shannon Rutherford, Wenbo Xu, Changwen Ke	2311–2319
Oseltamivir-Resistant Influenza A (H1N1) Virus Strain with an H274Y Mutation in Neuraminidase Persists without Drug Pressure in Infected Mallards	Anna Gillman, Shaman Muradrasoli, Hanna Söderström, Fredrik Holmberg, Neus Latorre-Margalef, Conny Tolf, Jonas Waldenström, Gunnar Gunnarsson, Björn Olsen, Josef D. Järhult	2378–2383
Type III Secretion System and Virulence Markers Highlight Similarities and Differences between Human- and Plant-Associated Pseudomonads Related to <i>Pseudomonas fluorescens</i> and <i>P. putida</i>	Sylvie Mazurier, Annabelle Merieau, Dorian Bergeau, Victorien Decoin, Daniel Sperandio, Alexandre Crépin, Corinne Barbey, Katy Jeannot, Maïté Vicré-Gibouin, Patrick Plésiat, Philippe Lemanceau, Xavier Latour	2579–2590

TABLE OF CONTENTS

SPOTLIGHT

- Articles of Significant Interest Selected from This Issue by the Editors 2651

BIOTECHNOLOGY

- Efficacies of Nisin A and Nisin V Semipurified Preparations Alone and in Combination with Plant Essential Oils for Controlling *Listeria monocytogenes* Des Field, Karen Daly, Paula M. O'Connor, Paul D. Cotter, Colin Hill, R. Paul Ross 2762–2769

ENVIRONMENTAL MICROBIOLOGY

- Cyanobacterial Blue Color Formation during Lysis under Natural Conditions Suzue Aarii, Kiyomi Tsuji, Koji Tomita, Masateru Hasegawa, Beata Bober, Ken-Ichi Harada 2667–2675
- Mechanisms Involved in Fe(III) Respiration by the Hyperthermophilic Archaeon *Ferroglobus placidus* Jessica A. Smith, Muktak Aklujkar, Carla Risso, Ching Leang, Ludovic Giloteaux, Dawn E. Holmes 2735–2744
- Corynebacterium glutamicum* Methionine Sulfoxide Reductase A Uses both Mycoredoxin and Thioredoxin for Regeneration and Oxidative Stress Resistance Meiru Si, Lei Zhang, Muhammad Tausif Chaudhry, Wei Ding, Yixiang Xu, Can Chen, Ali Akbar, Xihui Shen, Shuang-Jiang Liu 2781–2796
- Arsenic Methylation and Volatilization by Arsenite S-Adenosylmethionine Methyltransferase in *Pseudomonas alcaligenes* NBRC14159 Jun Zhang, Tingting Cao, Zhu Tang, Qirong Shen, Barry P. Rosen, Fang-Jie Zhao 2852–2860
- Microbial Growth under Supercritical CO₂ Kyle C. Peet, Adam J. E. Freedman, Hector H. Hernandez, Vanya Britto, Chris Boreham, Jonathan B. Ajo-Franklin, Janelle R. Thompson 2881–2892

ENZYMOLGY AND PROTEIN ENGINEERING

- Gas Chromatography-Mass Spectrometry-Based Metabolite Profiling of *Salmonella enterica* Serovar Typhimurium Differentiates between Biofilm and Planktonic Phenotypes Hui San Wong, Garth L. Maker, Robert D. Trengove, Ryan M. O'Handley 2660–2666
- Solution Structure of Acidocin B, a Circular Bacteriocin Produced by *Lactobacillus acidophilus* M46 Jeella Z. Acedo, Marco J. van Belkum, Christopher T. Lohans, Ryan T. McKay, Mark Miskolzie, John C. Vederas 2910–2918
- Exploring the Enantioselective Mechanism of Halohydrin Dehalogenase from *Agrobacterium radiobacter* AD1 by Iterative Saturation Mutagenesis Chao Guo, Yanpu Chen, Yu Zheng, Wei Zhang, Yunwen Tao, Juan Feng, Lixia Tang 2919–2926

EVOLUTIONARY AND GENOMIC MICROBIOLOGY

- Sulfur Isotope Fractionation during the Evolutionary Adaptation of a Sulfate-Reducing Bacterium André Pellerin, Luke Anderson-Trocmé, Lyle G. Whyte, Grant M. Zane, Judy D. Wall, Boswell A. Wing 2676–2689
- Effects of Three Different Nucleoid-Associated Proteins Encoded on IncP-7 Plasmid pCARI on Host *Pseudomonas putida* KT2440 Chiho Suzuki-Minakuchi, Ryusuke Hirotsu, Masaki Shintani, Toshiharu Takeda, Yurika Takahashi, Kazuhiro Matsui, Delyana Vasileva, Choong-Soo Yun, Kazunori Okada, Hisakazu Yamane, Hideaki Nojiri 2869–2880

FOOD MICROBIOLOGY

Evidence of the Internalization of Animal Caliciviruses via the Roots of Growing Strawberry Plants and Dissemination to the Fruit

Erin DiCaprio, Doug Culbertson,
Jianrong Li 2727–2734

Interstrain Interactions between Bacteria Isolated from Vacuum-Packaged Refrigerated Beef

Peipei Zhang, József Baranyi,
Mark Tamplin 2753–2761

GENETICS AND MOLECULAR BIOLOGY

Disparate Independent Genetic Events Disrupt the Secondary Metabolism Gene *perA* in Certain Symbiotic *Epichloë* Species

Daniel Berry, Johanna E. Takach,
Christopher L. Schardl, Nikki D.
Charlton, Barry Scott,
Carolyn A. Young 2797–2807

INVERTEBRATE MICROBIOLOGY

Mortality of Cutworm Larvae Is Not Enhanced by *Agrotis segetum* Granulovirus and *Agrotis segetum* Nucleopolyhedrovirus B Coinfection Relative to Single Infection by Either Virus

Jörg T. Wennmann, Tim Köhler,
Gianpiero Gueli Alletti,
Johannes A. Jehle 2893–2899

TonB-Dependent Heme Iron Acquisition in the Tsetse Fly Symbiont *Sodalis glossinidius*

Gili Hrusa, William Farmer, Brian L.
Weiss, Taylor Applebaum, Jose Santinni
Roma, Lauren Szeto, Serap Aksoy,
Laura J. Runyen-Janecky 2900–2909

METHODS

Development of a Protocol for Predicting Bacterial Resistance to Microbicides

Laura Knapp, Alejandro Amézquita,
Peter McClure, Sara Stewart, Jean-Yves
Maillard 2652–2659

High-Throughput Microfluidic Method To Study Biofilm Formation and Host-Pathogen Interactions in Pathogenic *Escherichia coli*

Yannick D. N. Tremblay, Philippe
Vogeleer, Mario Jacques, Josée Harel 2827–2840

MICROBIAL ECOLOGY

The *fur* Gene as a New Phylogenetic Marker for *Vibrionaceae* Species Identification

Henrique Machado, Lone Gram 2745–2752

Community Dynamics of Arbuscular Mycorrhizal Fungi in High-Input and Intensively Irrigated Rice Cultivation Systems

Yutao Wang, Ting Li, Yingwei Li,
Lars Olof Björn, Søren Rosendahl,
Pål Axel Olsson, Shaoshan Li, Xuelin Fu 2958–2965

PHYSIOLOGY

Phenotypic and Genotypic Description of *Sedimenticola selenatireducens* Strain CUZ, a Marine (Per)Chlorate-Respiring Gammaproteobacterium, and Its Close Relative the Chlorate-Respiring *Sedimenticola* Strain NSS

Charlotte I. Carlström, Dana E. Loutey,
Ouwei Wang, Anna Engelbrekton,
Iain Clark, Lauren N. Lucas, Pranav Y.
Somasekhar, John D. Coates 2717–2726

Inhibition of *Pseudomonas aeruginosa* Swarming Motility by 1-Naphthol and Other Bicyclic Compounds Bearing Hydroxyl Groups

Hiromu Oura, Yosuke Tashiro,
Masanori Toyofuku, Kousetsu Ueda,
Tatsunori Kiyokawa, Satoshi Ito,
Yurika Takahashi, Seunguk Lee,
Hideaki Nojiri, Toshiaki
Nakajima-Kambe, Hiroo Uchiyama,
Hiroyuki Futamata, Nobuhiko Nomura 2808–2818

The Effects of Heat Activation on *Bacillus* Spore Germination, with Nutrients or under High Pressure, with or without Various Germination Proteins

Stephanie Luu, Jose Cruz-Mora,
Barbara Setlow, Florence E. Feecherry,
Christopher J. Doona, Peter Setlow 2927–2938

PLANT MICROBIOLOGY

- PeBL1, a Novel Protein Elicitor from *Brevibacillus laterosporus* Strain A60, Activates Defense Responses and Systemic Resistance in *Nicotiana benthamiana***
Haoqian Wang, Xiufen Yang, Lihua Guo, Hongmei Zeng, Dewen Qiu 2706–2716
- Association of Shifting Populations in the Root Zone Microbiome of Millet with Enhanced Crop Productivity in the Sahel Region (Africa)**
Spencer J. Debenport, Komi Assigbetse, Roger Bayala, Lydie Chapuis-Lardy, Richard P. Dick, Brian B. McSpadden Gardener 2841–2851
- The Host Plant Metabolite Glucose Is the Precursor of Diffusible Signal Factor (DSF) Family Signals in *Xanthomonas campestris***
Yinyue Deng, Xiaoling Liu, Ji'en Wu, Jasmine Lee, Shaohua Chen, Yingying Cheng, Chunyan Zhang, Lian-Hui Zhang 2861–2868

PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY

- Methicillin-Resistant *Staphylococcus aureus* in Commercial Swine Herds Is Associated with Disinfectant and Zinc Usage**
Mackenzie Jonathan Slifierz, Robert M. Friendship, J. Scott Weese 2690–2695
- Targeting *Enterococcus faecalis* Biofilms with Phage Therapy**
Leron Khalifa, Yair Brosh, Daniel Gelman, Shunit Copenhagen-Glazer, Shaul Beyth, Ronit Poradosu-Cohen, Yok-Ai Que, Nurit Beyth, Ronen Hazan 2696–2705
- Diverse Nitrogen Sources in Seminal Fluid Act in Synergy To Induce Filamentous Growth of *Candida albicans***
Francisco J. Alvarez, Kicki Ryman, Cornelis Hooijmaijers, Vincent Bulone, Per O. Ljungdahl 2770–2780
- Culture-Independent Evaluation of Nonenveloped-Virus Infectivity Reduced by Free-Chlorine Disinfection**
Daisuke Sano, Takatomo Ohta, Arata Nakamura, Toyoko Nakagomi, Osamu Nakagomi, Satoshi Okabe 2819–2826
- The Peptide Toxin Amylosin of *Bacillus amyloliquefaciens* from Moisture-Damaged Buildings Is Immunotoxic, Induces Potassium Efflux from Mammalian Cells, and Has Antimicrobial Activity**
Stiina Rasimus-Sahari, Vera V. Teplova, Maria A. Andersson, Raimo Mikkola, Päivi Kankkunen, Sampsa Matikainen, Carl G. Gahmberg, Leif C. Andersson, Mirja Salkinoja-Salonen 2939–2949
- Efficacy and Mechanisms of Murine Norovirus Inhibition by Pulsed-Light Technology**
Allison Vimont, Ismaïl Fliss, Julie Jean 2950–2957

TABLE OF CONTENTS

SPOTLIGHT

- Articles of Significant Interest Selected from This Issue by the Editors 2967

MINIREVIEW

- Responses of Yeast Biocontrol Agents to Environmental Stress Yuan Sui, Michael Wisniewski, Samir Droby, Jia Liu 2968–2975

BIODEGRADATION

- A Patatin-Like Protein Associated with the Polyhydroxyalkanoate (PHA) Granules of *Haloferax mediterranei* Acts as an Efficient Depolymerase in the Degradation of Native PHA Guiming Liu, Jing Hou, Shuangfeng Cai, Dahe Zhao, Lei Cai, Jing Han, Jian Zhou, Hua Xiang 3029–3038

ENVIRONMENTAL MICROBIOLOGY

- C/N Ratio Drives Soil Actinobacterial Cellobiohydrolase Gene Diversity Alexandre B. de Menezes, Miranda T. Prendergast-Miller, Pabhon Poonpatana, Mark Farrell, Andrew Bissett, Lynne M. Macdonald, Peter Toscas, Alan E. Richardson, Peter H. Thrall 3016–3028

- A New Fungal Isolate, *Penidiella* sp. Strain T9, Accumulates the Rare Earth Element Dysprosium Takumi Horiike, Mitsuo Yamashita 3062–3068

- Red Soils Harbor Diverse Culturable Actinomycetes That Are Promising Sources of Novel Secondary Metabolites Xiaoxuan Guo, Ning Liu, Xiaomin Li, Yun Ding, Fei Shang, Yongsheng Gao, Jisheng Ruan, Ying Huang 3086–3103

- pH Influences the Importance of Niche-Related and Neutral Processes in Lacustrine Bacterioplankton Assembly Lijuan Ren, Erik Jeppesen, Dan He, Jianjun Wang, Lone Liboriussen, Peng Xing, Qinglong L. Wu 3104–3114

- Metatranscriptomic Analysis of Diminutive *Thiomargarita*-Like Bacteria (“*Candidatus* Thiopilula” spp.) from Abyssal Cold Seeps of the Barbados Accretionary Prism Daniel S. Jones, Beverly E. Flood, Jake V. Bailey 3142–3156

- Mono- and Dialkyl Glycerol Ether Lipids in Anaerobic Bacteria: Biosynthetic Insights from the Mesophilic Sulfate Reducer *Desulfatibacillum alkenivorans* PF2803^T Vincent Grossi, Damien Mollex, Arnauld Vinçon-Laugier, Florence Hakil, Muriel Pacton, Cristiana Cravo-Laureau 3157–3168

- Site-Directed Mutagenesis of HgcA and HgcB Reveals Amino Acid Residues Important for Mercury Methylation Steven D. Smith, Romain Bridou, Alexander Johs, Jerry M. Parks, Dwayne A. Elias, Richard A. Hurt, Jr., Steven D. Brown, Mircea Podar, Judy D. Wall 3205–3217

- Phylogenetically Distinct Phylotypes Modulate Nitrification in a Paddy Soil Jun Zhao, Baozhan Wang, Zhongjun Jia 3218–3227

FOOD MICROBIOLOGY

- In-Feed Supplementation of *trans*-Cinnamaldehyde Reduces Layer-Chicken Egg-Borne Transmission of *Salmonella enterica* Serovar Enteritidis Indu Upadhyaya, Abhinav Upadhyay, Anup Kollanoor-Johny, Shankumar Mooyottu, Sangeetha A. Baskaran, Hsin-Bai Yin, David T. Schreiber, Mazhar I. Khan, Michael J. Darre, Patricia A. Curtis, Kumar Venkitanarayanan 2985–2994

Extended-Spectrum- β -Lactamase-Producing <i>Enterobacteriaceae</i> Isolated from Vegetables Imported from the Dominican Republic, India, Thailand, and Vietnam	Katrin Zurfluh, Magdalena Nüesch-Inderbinen, Marina Morach, Annina Zihler Berner, Herbert Hächler, Roger Stephan	3115–3120
Organic Cultivation of <i>Triticum turgidum</i> subsp. <i>durum</i> Is Reflected in the Flour-Sourdough Fermentation-Bread Axis	Carlo Giuseppe Rizzello, Ivana Cavoski, Jelena Turk, Danilo Ercolini, Luana Nionelli, Erica Pontonio, Maria De Angelis, Francesca De Filippis, Marco Gobetti, Raffaella Di Cagno	3192–3204
Integrated Kinetic and Probabilistic Modeling of the Growth Potential of Bacterial Populations	S. M. George, A. Métris, J. Baranyi	3228–3234
A <i>Lactobacillus plantarum</i> Esterase Active on a Broad Range of Phenolic Esters	María Esteban-Torres, José María Landete, Inés Reverón, Laura Santamaría, Blanca de las Rivas, Rosario Muñoz	3235–3242
GENETICS AND MOLECULAR BIOLOGY		
<i>phoU</i> Inactivation in <i>Pseudomonas aeruginosa</i> Enhances Accumulation of ppGpp and Polyphosphate	Luiz Gustavo de Almeida, Julia Helena Ortiz, René P. Schneider, Beny Spira	3006–3015
Constitutive Cylindrospermopsin Pool Size in <i>Cylindrospermopsis raciborskii</i> under Different Light and CO ₂ Partial Pressure Conditions	Mattia Pierangelini, Rati Sinha, Anusuya Willis, Michele A. Burford, Philip T. Orr, John Beardall, Brett A. Neilan	3069–3076
Sialic Acid-Mediated Gene Expression in <i>Streptococcus pneumoniae</i> and Role of NanR as a Transcriptional Activator of the <i>nan</i> Gene Cluster	Muhammad Afzal, Sulman Shafeeq, Hifza Ahmed, Oscar P. Kuipers	3121–3131
Extensive Genetic Variability Linked to IS26 Insertions in the <i>fljB</i> Promoter Region of Atypical Monophasic Variants of <i>Salmonella enterica</i> Serovar Typhimurium	Cécile Boland, Sophie Bertrand, Wesley Mattheus, Katelijne Dierick, Vicky Jasson, Toon Rosseel, Steven Van Borm, Jacques Mahillon, Pierre Wattiau	3169–3175
A Replicative Plasmid Vector Allows Efficient Complementation of Pathogenic <i>Leptospira</i> Strains	Christopher J. Pappas, Nadia Benaroudj, Mathieu Picardeau	3176–3181
New Shuttle Vector-Based Expression System To Generate Polyhistidine-Tagged Fusion Proteins in <i>Staphylococcus aureus</i> and <i>Escherichia coli</i>	Sybille Schwendener, Vincent Perreten	3243–3254
INVERTEBRATE MICROBIOLOGY		
Oxidative Stress Correlates with <i>Wolbachia</i> -Mediated Antiviral Protection in <i>Wolbachia-Drosophila</i> Associations	Zhee Sheen Wong, Jeremy C. Brownlie, Karyn N. Johnson	3001–3005
Development of the Honey Bee Gut Microbiome throughout the Queen-Rearing Process	David R. Tarpy, Heather R. Mattila, Irene L. G. Newton	3182–3191
METHODS		
An Inexpensive, Accurate, and Precise Wet-Mount Method for Enumerating Aquatic Viruses	Brady R. Cunningham, Jennifer R. Brum, Sarah M. Schwenck, Matthew-B. Sullivan, Seth G. John	2995–3000
Simple and Portable Magnetic Immunoassay for Rapid Detection and Sensitive Quantification of Plant Viruses	Stefanie Rettcher, Felicitas Jungk, Christoph Kühn, Hans-Joachim Krause, Greta Nölke, Ulrich Commandeur, Rainer Fischer, Stefan Schillberg, Florian Schröper	3039–3048

A Novel Triplex Quantitative PCR Strategy for Quantification of Toxigenic and Nontoxigenic *Vibrio cholerae* in Aquatic Environments

Rupert Bliem, Sonja Schauer, Helga Plicka, Adelheid Obwaller, Regina Sommer, Adolf Steinrigl, Munirul Alam, Georg H. Reischer, Andreas H. Farnleitner, Alexander Kirschner 3077–3085

MICROBIAL ECOLOGY

Quantitative PCR Analysis of Functional Genes in Iron-Rich Microbial Mats at an Active Hydrothermal Vent System (Lō'ihi Seamount, Hawai'i)

Kelsey J. Jesser, Heather Fullerton, Kevin W. Hager, Craig L. Moyer 2976–2984

Pseudomonas fluorescens* Pirates both Ferrioxamine and Ferricoelichelin Siderophores from *Streptomyces ambofaciens

Justine Galet, Aurélie Deveau, Laurence Hôtel, Pascale Frey-Klett, Pierre Leblond, Bertrand Aigle 3132–3141

Metatranscriptomic Evidence for Co-Occurring Top-Down and Bottom-Up Controls on Toxic Cyanobacterial Communities

Morgan M. Steffen, B. Shafer Belisle, Sue B. Watson, Gregory L. Boyer, Richard A. Bourbonniere, Steven W. Wilhelm 3268–3276

PLANT MICROBIOLOGY

Preferential Association of Endophytic Bradyrhizobia with Different Rice Cultivars and Its Implications for Rice Endophyte Evolution

Pongdet Piromyou, Teerana Greetatorn, Kamonluck Teamtisong, Takashi Okubo, Ryo Shinoda, Achara Nuntakij, Panlada Tittabutr, Nantakorn Boonkerd, Kiwamu Minamisawa, Neung Teaumroong 3049–3061

PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY

Novel *bla*_{ROB-1}-Bearing Plasmid Conferring Resistance to β -Lactams in *Haemophilus parasuis* Isolates from Healthy Weaning Pigs

Javier Molerés, Alfonso Santos-López, Isidro Lázaro, Javier Labairu, Cristina Prat, Carmen Ardanuy, Bruno González-Zorn, Virginia Aragon, Junkal Garmendia 3255–3267

ERRATA

Erratum for La Rosa et al., *In Vivo* Assessment of Growth and Virulence Gene Expression during Commensal and Pathogenic Lifestyles of *luxABCDE*-Tagged *Enterococcus faecalis* Strains in Murine Gastrointestinal and Intravenous Infection Models

Sabina Leanti La Rosa, Pat G. Casey, Colin Hill, Dzung B. Diep, Ingolf F. Nes, Dag A. Brede 3277

Erratum for Wang et al., Arsenite Oxidase Also Functions as an Antimonite Oxidase

Qian Wang, Thomas P. Warelow, Yoon-Suk Kang, Christine Romano, Thomas H. Osborne, Corinne R. Lehr, Brian Bothner, Timothy R. McDermott, Joanne M. Santini, Gejiao Wang 3278

TABLE OF CONTENTS

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors

3279

BIOTECHNOLOGY

Metabolic Profiling of *Geobacter sulfurreducens* during Industrial Bioprocess Scale-Up

Howbeer Muhamadali, Yun Xu, David I. Ellis, J. William Allwood, Nicholas J. W. Rattray, Elon Correa, Haitham Alrabiah, Jonathan R. Lloyd, Royston Goodacre 3288–3298

Two Phages, phiIPLA-RODI and phiIPLA-C1C, Lyse Mono- and Dual-Species Staphylococcal Biofilms

Diana Gutiérrez, Dieter Vandenheuvell, Beatriz Martínez, Ana Rodríguez, Rob Lavigne, Pilar García 3336–3348

Accumulation of D-Glucose from Pentoses by Metabolically Engineered *Escherichia coli*

Tian Xia, Qi Han, William V. Costanzo, Yixuan Zhu, Jeffrey L. Urbauer, Mark A. Eiteman 3387–3394

Pseudomycoicidin, a Class II Lantibiotic from *Bacillus pseudomycooides*

Shradha Basi-Chipalu, Jasmin Dischinger, Michael Josten, Christiane Szekat, Annegret Zweynert, Hans-Georg Sahl, Gabriele Bierbaum 3419–3429

Efficient Production of 2,5-Diketo-D-Gluconate via Heterologous Expression of 2-Ketogluconate Dehydrogenase in *Gluconobacter japonicus*

Naoya Kataoka, Minenosuke Matsutani, Toshiharu Yakushi, Kazunobu Matsushita 3552–3560

ENVIRONMENTAL MICROBIOLOGY

Biofilm Formation and Quorum-Sensing-Molecule Production by Clinical Isolates of *Serratia liquefaciens*

Sara Remuzgo-Martínez, María Lázaro-Diez, Celia Mayer, Maitane Aranzamendi-Zaldumbide, Daniel Padilla, Jorge Calvo, Francesc Marco, Luis Martínez-Martínez, José Manuel Icardo, Ana Otero, José Ramos-Vivas 3306–3315

Influence of Adhesion Force on *icaA* and *cidA* Gene Expression and Production of Matrix Components in *Staphylococcus aureus* Biofilms

Akshay K. Harapanahalli, Yun Chen, Jiuyi Li, Henk J. Busscher, Henny C. van der Mei 3369–3378

Organic Amendments to Avocado Crops Induce Suppressiveness and Influence the Composition and Activity of Soil Microbial Communities

Nuria Bonilla, Carmen Vida, Maira Martínez-Alonso, Blanca B. Landa, Nuria Gaju, Francisco M. Cazorla, Antonio de Vicente 3405–3418

Using Total Internal Reflection Fluorescence Microscopy To Visualize Rhodopsin-Containing Cells

J. L. Keffer, C. R. Sabanayagam, M. E. Lee, E. F. DeLong, M. W. Hahn, J. A. Maresca 3442–3450

Evidence of Active Methanogen Communities in Shallow Sediments of the Sonora Margin Cold Seeps

Adrien Vigneron, Stéphane L'Haridon, Anne Godfroy, Erwan G. Roussel, Barry A. Cragg, R. John Parkes, Laurent Toffin 3451–3459

Nitrite Control over Dissimilatory Nitrate/Nitrite Reduction Pathways in *Shewanella loihica* Strain PV-4

Sukhwan Yoon, Robert A. Sanford, Frank E. Löffler 3510–3517

Phosphate Limitation Induces Drastic Physiological Changes, Virulence-Related Gene Expression, and Secondary Metabolite Production in <i>Pseudovibrio</i> sp. Strain FO-BEG1	Stefano Romano, Heide N. Schulz-Vogt, José M. González, Vladimir Bondarev	3518–3528
Species Richness and Adaptation of Marine Fungi from Deep-Subseafloor Sediments	Vanessa Rédou, Marion Navarri, Laurence Meslet-Cladière, Georges Barbier, Gaëtan Burgaud	3571–3583
EVOLUTIONARY AND GENOMIC MICROBIOLOGY		
<i>Bacillus halodurans</i> Strain C125 Encodes and Synthesizes Enzymes from Both Known Pathways To Form dUMP Directly from Cytosine Deoxyribonucleotides	Christian Berg Oehlenschläger, Monika Nøhr Løvgreen, Eva Reinauer, Emilia Lehtinen, Marie-Louise Lindberg Pind, Pernille Harris, Jan Martinussen, Martin Willemoës	3395–3404
FOOD MICROBIOLOGY		
Processing Environment and Ingredients Are Both Sources of <i>Leuconostoc gelidum</i> , Which Emerges as a Major Spoiler in Ready-To-Eat Meals	Vasileios Pothakos, Giuseppina Stellato, Danilo Ercolini, Frank Devlieghere	3529–3541
GENETICS AND MOLECULAR BIOLOGY		
Lactococcal 949 Group Phages Recognize a Carbohydrate Receptor on the Host Cell Surface	Jennifer Mahony, Walter Randazzo, Horst Neve, Luca Settanni, Douwe van Sinderen	3299–3305
METHODS		
Simple Method for Markerless Gene Deletion in Multidrug-Resistant <i>Acinetobacter baumannii</i>	Man Hwan Oh, Je Chul Lee, Jungmin Kim, Chul Hee Choi, Kyudong Han	3357–3368
Integrated <i>Cryptosporidium</i> Assay To Determine Oocyst Density, Infectivity, and Genotype for Risk Assessment of Source and Reuse Water	Brendon King, Stella Fanok, Renae Phillips, Brooke Swaffer, Paul Monis	3471–3481
MICROBIAL ECOLOGY		
Mortality Caused by Bath Exposure of Zebrafish (<i>Danio rerio</i>) Larvae to Nervous Necrosis Virus Is Limited to the Fourth Day Postfertilization	Danny Morick, Or Faigenbaum, Margarita Smirnov, Yakov Fellig, Adi Inbal, Moshe Kotler	3280–3287
Phylogenetic and Functional Alterations in Bacterial Community Compositions in Broiler Ceca as a Result of Mannan Oligosaccharide Supplementation	A. Corrigan, Marcel de Leeuw, Stéphanie Penaud-Frèzet, Diliana Dimova, R. A. Murphy	3460–3470
Site History and Edaphic Features Override the Influence of Plant Species on Microbial Communities in Restored Tidal Freshwater Wetlands	Christine E. Prasse, Andrew H. Baldwin, Stephanie A. Yarwood	3482–3491
Taxonomic Identification of Ruminant Epithelial Bacterial Diversity during Rumen Development in Goats	Jinzheng Jiao, Jinyu Huang, Chuanshe Zhou, Zhiliang Tan	3502–3509
PHYSIOLOGY		
Evolutionary Engineering Improves Tolerance for Replacement Jet Fuels in <i>Saccharomyces cerevisiae</i>	Timothy C. R. Brennan, Thomas C. Williams, Benjamin L. Schulz, Robin W. Palfreyman, Jens O. Krömer, Lars K. Nielsen	3316–3325
Mutational Analyses of Glucose Dehydrogenase and Glucose-6-Phosphate Dehydrogenase Genes in <i>Pseudomonas fluorescens</i> Reveal Their Effects on Growth and Alginate Production	Susan Maleki, Mali Mærk, Svein Valla, Helga Ertesvåg	3349–3356

PLANT MICROBIOLOGY

Novel Substrate Specificity and Temperature-Sensitive Activity of *Mycosphaerella graminicola* CYP51 Supported by the Native NADPH Cytochrome P450 Reductase

Claire L. Price, Andrew G. S. Warrilow, Josie E. Parker, Jonathan G. L. Mullins, W. David Nes, Diane E. Kelly, Steven L. Kelly 3379–3386

Sharing a Host Plant (Wheat [*Triticum aestivum*]) Increases the Fitness of *Fusarium graminearum* and the Severity of Fusarium Head Blight but Reduces the Fitness of Grain Aphids (*Sitobion avenae*)

Jassy Drakulic, John Caulfield, Christine Woodcock, Stephen P. T. Jones, Robert Linforth, Toby J. A. Bruce, Rumiana V. Ray 3492–3501

Tropical Strains of *Ralstonia solanacearum* Outcompete Race 3 Biovar 2 Strains at Lowland Tropical Temperatures

Alejandra I. Huerta, Annett Milling, Caitilyn Allen 3542–3551

PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY

Zoonotic and Potentially Host-Adapted *Enterocytozoon bieneusi* Genotypes in Sheep and Cattle in Northeast China and an Increasing Concern about the Zoonotic Importance of Previously Considered Ruminant-Adapted Genotypes

Yanxue Jiang, Wei Tao, Qiang Wan, Qiao Li, Yuqi Yang, Yongchao Lin, Siwen Zhang, Wei Li 3326–3335

Genes Indicative of Zoonotic and Swine Pathogens Are Persistent in Stream Water and Sediment following a Swine Manure Spill

Sheridan K. Haack, Joseph W. Duris, Dana W. Kolpin, Lisa R. Fogarty, Heather E. Johnson, Kristen E. Gibson, Michael Focazio, Kellogg J. Schwab, Laura E. Hubbard, William T. Foreman 3430–3441

In Vivo Transmission of an Inca/C Plasmid in *Escherichia coli* Depends on Tetracycline Concentration, and Acquisition of the Plasmid Results in a Variable Cost of Fitness

Timothy J. Johnson, Randall S. Singer, Richard E. Isaacson, Jessica L. Danzeisen, Kevin Lang, Kristi Kobluk, Bernadette Rivet, Klaudyna Borewicz, Jonathan G. Frye, Mark Englen, Janet Anderson, Peter R. Davies 3561–3570

TABLE OF CONTENTS

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors	3585
--	------

BIODEGRADATION

Enhanced Cutinase-Catalyzed Hydrolysis of Polyethylene Terephthalate by Covalent Fusion to Hydrophobins	3586–3592
Identification of Anthraquinone-Degrading Bacteria in Soil Contaminated with Polycyclic Aromatic Hydrocarbons	3775–3781
Latex Clearing Protein (Lcp) of <i>Streptomyces</i> sp. Strain K30 Is a <i>b</i> -Type Cytochrome and Differs from Rubber Oxygenase A (RoxA) in Its Biophysical Properties	3793–3799
Doris Ribitsch, Enrique Herrero Acero, Agnieszka Przylucka, Sabine Zitzenbacher, Annemarie Marold, Caroline Gamerith, Rupert Tscheließnig, Alois Jungbauer, Harald Rennhofer, Helga Lichtenegger, Heinz Amenitsch, Klaus Bonazza, Christian P. Kubicek, Irina S. Druzhinina, Georg M. Guebitz	
Elyse A. Rodgers-Vieira, Zhenfa Zhang, Alden C. Adrion, Avram Gold, Michael D. Aitken	
Jakob Birke, Wolf Röther, Dieter Jendrosseck	

BIOTECHNOLOGY

Electrical Stimulation Improves Microbial Salinity Resistance and Organofluorine Removal in Bioelectrochemical Systems	3737–3744
Immunogenicity in Swine of Orally Administered Recombinant <i>Lactobacillus plantarum</i> Expressing Classical Swine Fever Virus E2 Protein in Conjunction with Thymosin α -1 as an Adjuvant	3745–3752
Chloride-Inducible Expression Vector for Delivery of Antimicrobial Peptides Targeting Antibiotic-Resistant <i>Enterococcus faecium</i>	3889–3897
Huajun Feng, Xueqin Zhang, Kun Guo, Eleni Vaiopoulou, Dongsheng Shen, Yuyang Long, Jun Yin, Meizhen Wang	
Yi-Gang Xu, Xue-Ting Guan, Zhong-Mei Liu, Chang-Yong Tian, Li-Chun Cui	
Kathryn Geldart, Juan Borrero, Yiannis N. Kaznessis	

ENVIRONMENTAL MICROBIOLOGY

Houseflies (<i>Musca domestica</i>) as Vectors for Extended-Spectrum β -Lactamase-Producing <i>Escherichia coli</i> on Spanish Broiler Farms	3604–3611
Alamethicin Suppresses Methanogenesis and Promotes Acetogenesis in Bioelectrochemical Systems	3863–3868
Marc Solà-Ginés, Juan José González-López, Karla Cameron-Veas, Nuria Piedra-Carrasco, Marta Cerdà-Cuéllar, Lourdes Migura-Garcia	
Xiuping Zhu, Michael Siegert, Matthew D. Yates, Bruce E. Logan	

ENZYMOLGY AND PROTEIN ENGINEERING

One-Pot Production of <i>L</i> -threo-3-Hydroxyaspartic Acid Using Asparaginase-Deficient <i>Escherichia coli</i> Expressing Asparagine Hydroxylase of <i>Streptomyces coelicolor</i> A3(2)	3648–3654
Lantibiotic Reductase LtnJ Substrate Selectivity Assessed with a Collection of Nisin Derivatives as Substrates	3679–3687
The N-Terminal GH10 Domain of a Multimodular Protein from <i>Caldicellulosiruptor bescii</i> Is a Versatile Xylanase/ β -Glucanase That Can Degrade Crystalline Cellulose	3823–3833
Ryotaro Hara, Masashi Nakano, Kuniki Kino	
Dongdong Mu, Manuel Montalbán-López, Jingjing Deng, Oscar P. Kuipers	
Xianli Xue, Rong Wang, Tao Tu, Pengjun Shi, Rui Ma, Huiying Luo, Bin Yao, Xiaoyun Su	

EVOLUTIONARY AND GENOMIC MICROBIOLOGY

Gene Loss and Lineage-Specific Restriction-Modification Systems Associated with Niche Differentiation in the *Campylobacter jejuni* Sequence Type 403 Clonal Complex

Laura Morley, Alan McNally, Konrad Paszkiewicz, Jukka Corander, Guillaume Méric, Samuel K. Sheppard, Jochen Blom, Georgina Manning 3641–3647

FOOD MICROBIOLOGY

Virucidal Effect of Cold Atmospheric Gaseous Plasma on Feline Calicivirus, a Surrogate for Human Norovirus

Hamada A. Aboubakr, Paul Williams, Urvashi Gangal, Mohammed M. Youssef, Sobhy A. A. El-Sohaimy, Peter J. Bruggeman, Sagar M. Goyal 3612–3622

Genetic Diversity and Pathogenic Potential of Attaching and Effacing *Escherichia coli* O26:H11 Strains Recovered from Bovine Feces in the United States

Sarah A. Ison, Sabine Delannoy, Marie Bugarel, Kendra K. Nightingale, Hattie E. Webb, David G. Renter, Tiruvoor G. Nagaraja, Guy H. Loneragan, Patrick Fach 3671–3678

Glucosylceramide Contained in Koji Mold-Cultured Cereal Confers Membrane and Flavor Modification and Stress Tolerance to *Saccharomyces cerevisiae* during Coculture Fermentation

Kazutaka Sawada, Tomoya Sato, Hiroshi Hamajima, Lahiru Niroshan Jayakody, Miyo Hirata, Mikako Yamashiro, Marie Tajima, Susumu Mitsutake, Koji Nagao, Keisuke Tsuge, Fumiyoshi Abe, Kentaro Hanada, Hiroshi Kitagaki 3688–3698

Diversity of Shiga Toxin-Producing *Escherichia coli* (STEC) O26:H11 Strains Examined via *stx* Subtypes and Insertion Sites of Stx and EspK Bacteriophages

Ludivine Bonanno, Estelle Loukiadis, Patricia Mariani-Kurkdjian, Eric Oswald, Lucille Garnier, Valérie Michel, Frédéric Auvray 3712–3721

Genome Sequence and Transcriptome Analysis of Meat-Spoilage-Associated Lactic Acid Bacterium *Lactococcus piscium* MKFS47

Margarita Andreevskaya, Per Johansson, Pia Laine, Olli-Pekka Smolander, Matti Sonck, Riitta Rahkila, Elina Jääskeläinen, Lars Paulin, Petri Auvinen, Johanna Björkroth 3800–3811

GENETICS AND MOLECULAR BIOLOGY

Heterologous Production of Hyaluronic Acid in an ϵ -Poly-L-Lysine Producer, *Streptomyces albulus*

Tomohiro Yoshimura, Nobuyuki Shibata, Yoshimitsu Hamano, Kazuya Yamanaka 3631–3640

Akkermansia muciniphila Adheres to Enterocytes and Strengthens the Integrity of the Epithelial Cell Layer

Justus Reunanen, Veera Kainulainen, Laura Huuskonen, Noora Ottman, Clara Belzer, Heikki Huhtinen, Willem M. de Vos, Reetta Satokari 3655–3662

A MarR Family Transcriptional Regulator, DptR3, Activates Daptomycin Biosynthesis and Morphological Differentiation in *Streptomyces roseosporus*

Qinling Zhang, Qiong Chen, Shuai Zhuang, Zhi Chen, Ying Wen, Jilun Li 3753–3765

The RpoE Stress Response Pathway Mediates Reduction of the Virulence of Enteropathogenic *Escherichia coli* by Zinc

Yuan Xue, Joesef Osborn, Anand Panchal, Jay L. Mellies 3766–3774

Mutational Analysis of the Antitoxin in the Lactococcal Type III Toxin-Antitoxin System AbiQ

Maxime Bélanger, Sylvain Moineau 3848–3855

“Quorum Non-Sensing”: Social Cheating and Deception in *Vibrio cholerae*

David S. Katzianer, Hui Wang, Ryan M. Carey, Jun Zhu 3856–3862

An L-Fucose Operon in the Probiotic *Lactobacillus rhamnosus* GG Is Involved in Adaptation to Gastrointestinal Conditions

Jimmy E. Becerra, Maria J. Yebra, Vicente Monedero 3880–3888

GEOMICROBIOLOGY

Carbon Source Preference in Chemosynthetic Hot Spring Communities

Matthew R. Urschel, Michael D. Kubo, Tori M. Hoehler, John W. Peters, Eric S. Boyd 3834–3847

INVERTEBRATE MICROBIOLOGY

Identification of a New *cryII*-Type Gene as a Candidate for Gene Pyramiding in Corn To Control *Ostrinia* Species Larvae

Can Zhao, Juan Luis Jurat-Fuentes, Heba M. Abdelgaffar, Hongyu Pan, Fuping Song, Jie Zhang 3699–3705

Infection Density Dynamics of the Citrus Greening Bacterium "*Candidatus Liberibacter asiaticus*" in Field Populations of the Psyllid *Diaphorina citri* and Its Relevance to the Efficiency of Pathogen Transmission to Citrus Plants

Rie Ukuda-Hosokawa, Yasutsune Sadoyama, Misaki Kishaba, Takashi Kuriwada, Hisashi Anbutsu, Takema Fukatsu 3728–3736

METHODS

In-Frame and Unmarked Gene Deletions in *Burkholderia cenocepacia* via an Allelic Exchange System Compatible with Gateway Technology

Mustafa Fazli, Joe J. Harrison, Michela Gambino, Michael Givskov, Tim Tolker-Nielsen 3623–3630

Evaluation of Molecular Methods To Improve the Detection of *Burkholderia pseudomallei* in Soil and Water Samples from Laos

Michael Knappik, David A. B. Dance, Sayaphet Rattanavong, Alain Pierret, Olivier Ribolzi, Viengmon Davong, Joy Silisouk, Manivanh Vongsouvath, Paul N. Newton, Sabine Dittrich 3722–3727

MICROBIAL ECOLOGY

Amphibian Symbiotic Bacteria Do Not Show a Universal Ability To Inhibit Growth of the Global Panzootic Lineage of *Batrachochytrium dendrobatidis*

Rachael E. Antwis, Richard F. Preziosi, Xavier A. Harrison, Trenton W. J. Garner 3706–3711

PHYSIOLOGY

Fermentation and Cost-Effective $^{13}\text{C}/^{15}\text{N}$ Labeling of the Nonribosomal Peptide Gramicidin S for Nuclear Magnetic Resonance Structure Analysis

Marina Berditsch, Sergii Afonin, Anna Steineker, Nataliia Orel, Igor Jakovkin, Christian Weber, Anne S. Ulrich 3593–3603

Polyphenolic Extract from Maple Syrup Potentiates Antibiotic Susceptibility and Reduces Biofilm Formation of Pathogenic Bacteria

Vimal B. Maisuria, Zeinab Hosseinioust, Nathalie Tufenkji 3782–3792

Lincomycin at Subinhibitory Concentrations Potentiates Secondary Metabolite Production by *Streptomyces* spp.

Yu Imai, Seizo Sato, Yukinori Tanaka, Kozo Ochi, Takeshi Hosaka 3869–3879

PLANT MICROBIOLOGY

Acquisition of Iron Is Required for Growth of *Salmonella* spp. in Tomato Fruit

Staci L. Nugent, Fanhong Meng, Gregory B. Martin, Craig Altier 3663–3670

PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY

Comparison of the Prevalences and Diversities of *Listeria* Species and *Listeria monocytogenes* in an Urban and a Rural Agricultural Watershed

Emma C. Stea, Laura M. Purdue, Rob C. Jamieson, Chris K. Yost, Lisbeth Truelstrup Hansen 3812–3822

TABLE OF CONTENTS

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors

3899

BIODEGRADATION

Hierarchy of Carbon Source Utilization in Soil Bacteria: Hegemonic Preference for Benzoate in Complex Aromatic Compound Mixtures Degraded by *Cupriavidus pinatubonensis* Strain JMP134

Danilo Pérez-Pantoja, Pablo Leiva-Novoa, Raúl A. Donoso, Cedric Little, Margarita Godoy, Dietmar H. Pieper, Bernardo González

3914–3924

Next-Generation Pyrosequencing Analysis of Microbial Biofilm Communities on Granular Activated Carbon in Treatment of Oil Sands Process-Affected Water

M. Shahinoor Islam, Yanyan Zhang, Kerry N. McPhedran, Yang Liu, Mohamed Gamal El-Din

4037–4048

BIOTECHNOLOGY

Functional Analysis of Two L-Arabinose Transporters from Filamentous Fungi Reveals Promising Characteristics for Improved Pentose Utilization in *Saccharomyces cerevisiae*

Jingen Li, Jing Xu, Pengli Cai, Bang Wang, Yanhe Ma, J. Philipp Benz, Chaoguang Tian

4062–4070

Functional Characterization of *Corynebacterium alkanolyticum* β -Xylosidase and Xyloside ABC Transporter in *Corynebacterium glutamicum*

Akira Watanabe, Kazumi Hiraga, Masako Suda, Hideaki Yukawa, Masayuki Inui

4173–4183

ENVIRONMENTAL MICROBIOLOGY

Vernalophrys algivore gen. nov., sp. nov. (Rhizaria: Cercozoa: Vampyrellida), a New Algal Predator Isolated from Outdoor Mass Culture of *Scenedesmus dimorphus*

Yingchun Gong, David J. Patterson, Yunguang Li, Zixuan Hu, Milton Sommerfeld, Yongsheng Chen, Qiang Hu

3900–3913

Bactericidal Compounds Controlling Growth of the Plant Pathogen *Pseudomonas syringae* pv. *actinidiae*, Which Forms Biofilms Composed of a Novel Exopolysaccharide

Shirin Ghods, Ian M. Sims, M. Fata Moradali, Bernd H. A. Rehm

4026–4036

Anoxic Conditions Promote Species-Specific Mutualism between Gut Microbes *In Silico*

Almut Heinken, Ines Thiele

4049–4061

Solar and Temperature Treatments Affect the Ability of Human Rotavirus Wa To Bind to Host Cells and Synthesize Viral RNA

Ofelia C. Romero-Maraccini, Joanna L. Shisler, Thanh H. Nguyen

4090–4097

Utilization of D-Lactate as an Energy Source Supports the Growth of *Gluconobacter oxydans*

Binbin Sheng, Jing Xu, Yingxin Zhang, Tianyi Jiang, Sisi Deng, Jian Kong, Chao Gao, Cuiqing Ma, Ping Xu

4098–4110

Dynamic Succession of Groundwater Functional Microbial Communities in Response to Emulsified Vegetable Oil Amendment during Sustained *In Situ* U(VI) Reduction

Ping Zhang, Wei-Min Wu, Joy D. Van Nostrand, Ye Deng, Zhili He, Thomas Gihring, Gengxin Zhang, Chris W. Schadt, David Watson, Phil Jardine, Craig S. Criddle, Scott Brooks, Terence L. Marsh, James M. Tiedje, Adam P. Arkin, Jizhong Zhou

4164–4172

Abundance and Distribution of Dimethylsulfoniopropionate Degradation Genes and the Corresponding Bacterial Community Structure at Dimethyl Sulfide Hot Spots in the Tropical and Subtropical Pacific Ocean

Yingshun Cui, Shotaro Suzuki, Yuko Omori, Shu-Kuan Wong, Minoru Ijichi, Ryo Kaneko, Sohiko Kameyama, Hiroshi Tanimoto, Koji Hamasaki

4184–4194

Real-Time PCR and Sequencing Assays for Rapid Detection and Identification of Avian Schistosomes in Environmental Samples

Narayanan Jothikumar, Bonnie J. Mull, Sara V. Brant, Eric S. Loker, Jeremy Collinson, W. Evan Secor, Vincent R. Hill 4207–4215

ENZYMOLGY AND PROTEIN ENGINEERING

Steroid Hydroxylation by Basidiomycete Peroxygenases: a Combined Experimental and Computational Study

Esteban D. Babot, José C. del Río, Marina Cañellas, Ferran Sancho, Fátima Lucas, Víctor Guallar, Lisbeth Kalum, Henrik Lund, Glenn Gröbe, Katrin Scheibner, René Ullrich, Martin Hofrichter, Angel T. Martínez, Ana Gutiérrez 4130–4142

Structure and Mechanism of Ferulic Acid Decarboxylase (FDC1) from *Saccharomyces cerevisiae*

Mohammad Wadud Bhuiya, Soon Goo Lee, Joseph M. Jez, Oliver Yu 4216–4223

EVOLUTIONARY AND GENOMIC MICROBIOLOGY

Distinct Circular Single-Stranded DNA Viruses Exist in Different Soil Types

Brian Reavy, Maud M. Swanson, Peter J. A. Cock, Lorna Dawson, Thomas E. Freitag, Brajesh K. Singh, Lesley Torrance, Arcady R. Mushegian, Michael Taliansky 3934–3945

FOOD MICROBIOLOGY

Evaluation of *Lactococcus lactis* Isolates from Nondairy Sources with Potential Dairy Applications Reveals Extensive Phenotype-Genotype Disparity and Implications for a Revised Species

Daniel Cavanagh, Aidan Casey, Eric Altermann, Paul D. Cotter, Gerald F. Fitzgerald, Olivia McAuliffe 3961–3972

Differential Metabolism of Exopolysaccharides from Probiotic Lactobacilli by the Human Gut Symbiont *Bacteroides thetaiotaomicron*

Alicia Lammerts van Bueren, Aakanksha Saraf, Eric C. Martens, Lubbert Dijkhuizen 3973–3983

Two-Component-System Histidine Kinases Involved in Growth of *Listeria monocytogenes* EGD-e at Low Temperatures

Anna Pöntinen, Annukka Markkula, Miia Lindström, Hannu Korkeala 3994–4004

Long-Term Fungal Inhibition by *Pisum sativum* Flour Hydrolysate during Storage of Wheat Flour Bread

Carlo Giuseppe Rizzello, Anna Lavecchia, Valerio Gramaglia, Marco Gobetti 4195–4206

Genetic Diversity of the *fliC* Genes Encoding the Flagellar Antigen H19 of *Escherichia coli* and Application to the Specific Identification of Enterohemorrhagic *E. coli* O121:H19

Lothar Beutin, Sabine Delannoy, Patrick Fach 4224–4230

GENETICS AND MOLECULAR BIOLOGY

Nisin H Is a New Nisin Variant Produced by the Gut-Derived Strain *Streptococcus hyointestinalis* DPC6484

Paula M. O'Connor, Eileen F. O'Shea, Caitriona M. Guinane, Orla O'Sullivan, Paul D. Cotter, R. Paul Ross, Colin Hill 3953–3960

σ^{54} -Dependent Response to Nitrogen Limitation and Virulence in *Burkholderia cenocepacia* Strain H111

Martina Lardi, Claudio Aguilar, Alessandro Pedrioli, Ulrich Omasits, Angela Suppiger, Gerardo Cárcamo-Oyarce, Nadine Schmid, Christian H. Ahrens, Leo Eberl, Gabriella Pessi 4077–4089

Resistance Genes and Genetic Elements Associated with Antibiotic Resistance in Clinical and Commensal Isolates of *Streptococcus salivarius*

Fanny Chaffanel, Florence Charron-Bourgoin, Virginie Libante, Nathalie Leblond-Bourget, Sophie Payot 4155–4163

GEOMICROBIOLOGY

The Impact of Gamma Radiation on Sediment Microbial Processes

Ashley R. Brown, Christopher Boothman, Simon M. Pimblott, Jonathan R. Lloyd 4014–4025

INVERTEBRATE MICROBIOLOGY

A Novel Binary Mixture of *Helicoverpa armigera* Single Nucleopolyhedrovirus Genotypic Variants Has Improved Insecticidal Characteristics for Control of Cotton Bollworms

Maite Arrizubieta, Oihane Simón, Trevor Williams, Primitivo Caballero 3984–3993

METHODS

Enhancing the Detection of *Giardia duodenalis* Cysts in Foods by Inertial Microfluidic Separation

Kyle R. Ganz, Liviu Clime, Jeffrey M. Farber, Nathalie Corneau, Teodor Veres, Brent R. Dixon 3925–3933

Validation of Reference Genes for Transcriptional Analyses in *Pleurotus ostreatus* by Using Reverse Transcription-Quantitative PCR

Raúl Castanera, Leticia López-Varas, Antonio G. Pisabarro, Lucía Ramírez 4120–4129

MICROBIAL ECOLOGY

Development and Application of a *Blastocystis* Subtype-Specific PCR Assay Reveals that Mixed-Subtype Infections Are Common in a Healthy Human Population

Pauline D. Scanlan, Christen Rune Stensvold, Paul D. Cotter 4071–4076

PLANT MICROBIOLOGY

Symbiosis Island Shuffling with Abundant Insertion Sequences in the Genomes of Extra-Slow-Growing Strains of Soybean *Bradyrhizobia*

Takayuki Iida, Manabu Itakura, Mizue Anda, Masayuki Sugawara, Tsuyoshi Isawa, Takashi Okubo, Shusei Sato, Kaori Chiba-Kakizaki, Kiwamu Minamisawa 4143–4154

PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY

Public Health Investigation of Two Outbreaks of Shiga Toxin-Producing *Escherichia coli* O157 Associated with Consumption of Watercress

Claire Jenkins, Timothy J. Dallman, Naomi Lauenders, Caroline Willis, Lisa Byrne, Frieda Jorgensen, Mark Eppinger, Goutam K. Adak, Heather Aird, Nicola Elviss, Kathie A. Grant, Dilys Morgan, Jim McLaughlin 3946–3952

Interactions between Human Norovirus Surrogates and *Acanthamoeba* spp.

Tun-Yun Hsueh, Kristen E. Gibson 4005–4013

Eight Novel Capsular Polysaccharide Synthesis Gene Loci Identified in Nontypeable *Streptococcus suis* Isolates

Han Zheng, Shaobo Ji, Zhijie Liu, Ruiting Lan, Ying Huang, Xuemei Bai, Marcelo Gottschalk, Jianguo Xu 4111–4119

ERRATUM

Erratum for Moriguchi et al., Transkingdom Genetic Transfer from *Escherichia coli* to *Saccharomyces cerevisiae* as a Simple Gene Introduction Tool

Kazuki Moriguchi, Noritaka Eda, Shinji Yamamoto, Katsuyuki Tanaka, Nori Kurata, Katsunori Suzuki 4231

Cover photograph (Copyright © 2015, American Society for Microbiology. All Rights Reserved.): *Agrocybe aegerita* (fruit bodies growing in a natural environment) and some other basidiomycetes secrete a peroxygenase of great biotechnological interest. This enzyme catalyzes selective oxygenation reactions with hydrogen peroxide as the final electron acceptor ("self-sufficient monooxygenase"), in contrast to cytochromes P450, which require an auxiliary flavin-containing enzyme or domain and a source of reducing power for similar reactions. The related article reports differential hydroxylation of a variety of steroid compounds by three basidiomycete peroxygenases in a combined experimental and computational study. (See related article on page 4130.)

TABLE OF CONTENTS

EDITORIAL

PilZ Domain Proteins of the Plant Pathogen *Xanthomonas oryzae* pv. *oryzae* Function Differentially in Virulence

Harold L. Drake 4233–4234

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors

4235

BIODEGRADATION

Dynamic Response of *Mycobacterium vanbaalenii* PYR-1 to BP Deepwater Horizon Crude Oil

Seong-Jae Kim, Ohgwe Kweon, John B. Sutherland, Hyun-Lee Kim, Richard C. Jones, Brian L. Burbuck, Steven W. Graves, Edward Psurny, Carl E. Cerniglia 4263–4276

BIOTECHNOLOGY

Biosynthesis of L-Sorbose and L- Psicose Based on C—C Bond Formation Catalyzed by Aldolases in an Engineered *Corynebacterium glutamicum* Strain

Jiangang Yang, Jitao Li, Yan Men, Yueming Zhu, Ying Zhang, Yuanxia Sun, Yanhe Ma 4284–4294

Gene Deletions Resulting in Increased Nitrogen Release by *Azotobacter vinelandii*: Application of a Novel Nitrogen Biosensor

Brett M. Barney, Lauren J. Eberhart, Janet M. Ohlert, Carolann M. Knutson, Mary H. Plunkett 4316–4328

Quorum-Sensing Mechanisms Mediated by Farnesol in *Ophiostoma piceae*: Effect on Secretion of Sterol Esterase

Felipe de Salas, María Jesús Martínez, Jorge Barriuso 4351–4357

Highly Active and Specific Tyrosine Ammonia-Lyases from Diverse Origins Enable Enhanced Production of Aromatic Compounds in Bacteria and *Saccharomyces cerevisiae*

Christian Billé Jendresen, Steen Gustav Stahlhut, Mingji Li, Paula Gaspar, Solvej Siedler, Jochen Förster, Jérôme Maury, Irina Borodina, Alex Toftgaard Nielsen 4458–4476

Aerobic Hydrogen Production via Nitrogenase in *Azotobacter vinelandii* CA6

Jesse Noar, Telisa Loveless, José Luis Navarro-Herrero, Jonathan W. Olson, José M. Bruno-Bárcena 4507–4516

ENVIRONMENTAL MICROBIOLOGY

Spatial, Temporal, and Matrix Variability of *Clostridium botulinum* Type E Toxin Gene Distribution at Great Lakes Beaches

Rasanthi U. Wijesinghe, Ryan J. Oster, Sheridan K. Haack, Lisa R. Fogarty, Taaja R. Tucker, Stephen C. Riley 4306–4315

Distribution and Characterization of *Salmonella enterica* Isolates from Irrigation Ponds in the Southeastern United States

Zhiyao Luo, Ganyu Gu, Amber Ginn, Mihai C. Giurcanu, Paige Adams, George Vellidis, Ariena H. C. van Bruggen, Michelle D. Danyluk, Anita C. Wright 4376–4387

Recent Emergence of *Escherichia coli* with Cephalosporin Resistance Conferred by *bla*_{CTX-M} on Washington State Dairy Farms

Margaret A. Davis, William M. Sischo, Lisa P. Jones, Dale A. Moore, Sara Ahmed, Diana M. Short, Thomas E. Besser 4403–4410

Patterns and Determinants of Halophilic Archaea (Class *Halobacteria*) Diversity in Tunisian Endorheic Salt Lakes and Sebket Systems

Afef Najjari, Mostafa S. Elshahed, Ameer Cherif, Noha H. Youssef 4432–4441

- Systematic Analysis of White Pox Disease in *Acropora palmata* of the Florida Keys and Role of *Serratia marcescens***
Jessica L. Joyner, Kathryn P. Sutherland, Dustin W. Kemp, Brett Berry, Ashton Griffin, James W. Porter, Molly H. B. Amador, Hunter K. G. Noren, Erin K. Lipp 4451–4457
- Leaf-Cutter Ant Fungus Gardens Are Biphasic Mixed Microbial Bioreactors That Convert Plant Biomass to Polyols with Biotechnological Applications**
Alexandre F. Somera, Adriel M. Lima, Álvaro J. dos Santos-Neto, Fernando M. Lanças, Maurício Bacchi, Jr. 4525–4535
- EVOLUTIONARY AND GENOMIC MICROBIOLOGY**
- Expanded Natural Product Diversity Revealed by Analysis of Lanthipeptide-Like Gene Clusters in *Actinobacteria***
Qi Zhang, James R. Doroghazi, Xiling Zhao, Mark C. Walker, Wilfred A. van der Donk 4339–4350
- FOOD MICROBIOLOGY**
- Selection and Characterization of Phage-Resistant Mutant Strains of *Listeria monocytogenes* Reveal Host Genes Linked to Phage Adsorption**
Thomas Denes, Henk C. den Bakker, Jeffrey I. Tokman, Claudia Guldemann, Martin Wiedmann 4295–4305
- Comparative Genotypic and Phenotypic Analysis of *Cronobacter* Species Cultured from Four Powdered Infant Formula Production Facilities: Indication of Pathoadaptation along the Food Chain**
Qiongqiong Yan, Juan Wang, Jayanthi Gangireddi, Yu Cao, Marta Martins, Gopal R. Gopinath, Roger Stephan, Keith Lampel, Ben D. Tall, Séamus Fanning 4388–4402
- Combining Lactic Acid Spray with Near-Infrared Radiation Heating To Inactivate *Salmonella enterica* Serovar Enteritidis on Almond and Pine Nut Kernels**
Jae-Won Ha, Dong-Hyun Kang 4517–4524
- YirR-Mediated Resistance of *Listeria monocytogenes* against Food Antimicrobials and Cross-Protection Induced by Exposure to Organic Acid Salts**
Jihun Kang, Martin Wiedmann, Kathryn J. Boor, Teresa M. Bergholz 4553–4562
- GENETICS AND MOLECULAR BIOLOGY**
- BadR and BadM Proteins Transcriptionally Regulate Two Operons Needed for Anaerobic Benzoyl Degradation by *Rhodospseudomonas palustris***
Hidetada Hiramawa, Yuko Hiramawa, E. Peter Greenberg, Caroline S. Harwood 4253–4262
- Photoautotrophic Polyhydroxybutyrate Granule Formation Is Regulated by Cyanobacterial Phasin PhaP in *Synechocystis* sp. Strain PCC 6803**
Waldemar Hauf, Björn Watzer, Nora Roos, Alexander Klotz, Karl Forchhammer 4411–4422
- METHODS**
- Kanamycin Resistance Cassette for Genetic Manipulation of *Treponema denticola***
Yuebin Li, John Ruby, Hui Wu 4329–4338
- Efficient Genome Editing in *Clostridium cellulolyticum* via CRISPR-Cas9 Nickase**
Tao Xu, Yongchao Li, Zhou Shi, Christopher L. Hemme, Yuan Li, Yonghua Zhu, Joy D. Van Nostrand, Zhili He, Jizhong Zhou 4423–4431
- Evaluation of the Ion Torrent Personal Genome Machine for Gene-Targeted Studies Using Amplicons of the Nitrogenase Gene *nifH***
Bangzhou Zhang, C. Ryan Penton, Chao Xue, Qiong Wang, Tianling Zheng, James M. Tiedje 4536–4545
- MICROBIAL ECOLOGY**
- Revisiting the Dilution Procedure Used To Manipulate Microbial Biodiversity in Terrestrial Systems**
Yan Yan, Eiko E. Kuramae, Peter G. L. Klinkhamer, Johannes A. van Veen 4246–4252
- Vibriophages Differentially Influence Biofilm Formation by *Vibrio anguillarum* Strains**
Demeng Tan, Amalie Dahl, Mathias Middelboe 4489–4497

PHYSIOLOGY

Rich Medium Composition Affects *Escherichia coli* Survival, Glycation, and Mutation Frequency during Long-Term Batch Culture

Karin E. Kram, Steven E. Finkel 4442–4450

PLANT MICROBIOLOGY

The *Xanthomonas oryzae* pv. *oryzae* PilZ Domain Proteins Function Differentially in Cyclic di-GMP Binding and Regulation of Virulence and Motility

Fenghuan Yang, Fang Tian, Huamin Chen, William Hutchins, Ching-Hong Yang, Chenyang He 4358–4367

Effects of Colonization of the Roots of Domestic Rice (*Oryza sativa* L. cv. Amaroo) by *Burkholderia pseudomallei*

Noppadol Prasertsincharoen, Constantin Constantinoiu, Christopher Gardiner, Jeffrey Warner, Jennifer Elliman 4368–4375

PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY

An Invasive Mammal (the Gray Squirrel, *Sciurus carolinensis*) Commonly Hosts Diverse and Atypical Genotypes of the Zoonotic Pathogen *Borrelia burgdorferi* *Sensu Lato*

Caroline Millins, Agnieszka Magierecka, Lucy Gilbert, Alissa Edoff, Amelia Brereton, Elizabeth Kilbride, Matt Denwood, Richard Birtles, Roman Biek 4236–4245

Biotin- and Glycoprotein-Coated Microspheres as Surrogates for Studying Filtration Removal of *Cryptosporidium parvum* in a Granular Limestone Aquifer Medium

M. E. Stevenson, A. P. Blaschke, S. Toze, J. P. S. Sidhu, W. Ahmed, I. H. van Drietzum, R. Sommer, A. K. T. Kirschner, S. Cervero-Aragó, A. H. Farnleitner, L. Pang 4277–4283

Dynamics of *Escherichia coli* Virulence Factors in Dairy Herds and Farm Environments in a Longitudinal Study in the United States

Elisabetta Lambertini, Jeffrey S. Karns, Jo Ann S. Van Kessel, Huilin Cao, Ynte H. Schukken, David R. Wolfgang, Julia M. Smith, Abani K. Pradhan 4477–4488

Extraintestinal Pathogenic and Antimicrobial-Resistant *Escherichia coli* Contamination of 56 Public Restrooms in the Greater Minneapolis-St. Paul Metropolitan Area

Muhanad Mohamed, Kris Owens, Abby Gajewski, Connie Clabots, Brian Johnston, Paul Thuras, Michael A. Kuskowski, James R. Johnson 4498–4506

Heat Shock-Enhanced Conjugation Efficiency in Standard *Campylobacter jejuni* Strains

Ximin Zeng, Devarshi Ardeshta, Jun Lin 4546–4552

TABLE OF CONTENTS

SPOTLIGHT

- Articles of Significant Interest Selected from This Issue by the Editors 4563

BIODEGRADATION

- Identity and Substrate Specificity of Reductive Dehalogenases Expressed in *Dehalococcoides*-Containing Enrichment Cultures Maintained on Different Chlorinated Ethenes Xiaoming Liang, Olivia Molenda, Shuiquan Tang, Elizabeth A. Edwards 4626–4633
- Metabolism of Doubly *para*-Substituted Hydroxychlorobiphenyls by Bacterial Biphenyl Dioxygenases Thi Thanh My Pham, Mohammad Sondossi, Michel Sylvestre 4860–4872

BIOTECHNOLOGY

- Thermophilic Coenzyme B₁₂-Dependent Acyl Coenzyme A (CoA) Mutase from *Kyrpidia tusciae* DSM 2912 Preferentially Catalyzes Isomerization of (*R*)-3-Hydroxybutyryl-CoA and 2-Hydroxyisobutyryl-CoA Maria-Teresa Weichler, Nadya Kurteva-Yaneva, Denise Przybylski, Judith Schuster, Roland H. Müller, Hauke Harms, Thore Rohwerder 4564–4572
- Optimization of Methanotrophic Growth and Production of Poly(3-Hydroxybutyrate) in a High-Throughput Microbioreactor System Eric R. Sundstrom, Craig S. Criddle 4767–4773
- Liposome-Encapsulated Bacteriophages for Enhanced Oral Phage Therapy against *Salmonella* spp. Joan Colom, Mary Cano-Sarabia, Jennifer Otero, Pilar Cortés, Daniel MasPOCH, Montserrat Llagostera 4841–4849

ENVIRONMENTAL MICROBIOLOGY

- Extracellular Vesicles of the Hyperthermophilic Archaeon “*Thermococcus onnurineus*” NAI^T Dong Hee Choi, Yong Min Kwon, Hiroshi Xavier Chiura, Eun Chan Yang, Seung Seob Bae, Sung Gyun Kang, Jung-Hyun Lee, Hwan Su Yoon, Sang-Jin Kim 4591–4599
- LA35 Poultry Fecal Marker Persistence Is Correlated with That of Indicators and Pathogens in Environmental Waters Bina Nayak, Jennifer Weidhaas, Valerie J. Harwood 4616–4625
- Semiquantitative Performance and Mechanism Evaluation of Carbon Nanomaterials as Cathode Coatings for Microbial Fouling Reduction Qiaoying Zhang, Joanne Nghiem, Gregory J. Silverberg, Chad D. Vecitis 4744–4755
- The Host Genotype and Environment Affect Strain Types of *Bifidobacterium longum* subsp. *longum* Inhabiting the Intestinal Tracts of Twins Min Zhang, Xiaomin Hang, Jing Tan, Hong Yang 4774–4781
- Depth-Dependent Survival of *Escherichia coli* and Enterococci in Soil after Manure Application and Simulated Rainfall M. D. Stocker, Y. A. Pachepsky, R. L. Hill, D. R. Shelton 4801–4808
- Intracellular Accumulation of Glycine in Polyphosphate-Accumulating Organisms in Activated Sludge, a Novel Storage Mechanism under Dynamic Anaerobic-Aerobic Conditions Hien Thi Thu Nguyen, Rikke Kristiansen, Mette Vestergaard, Reinhard Wimmer, Per Halkjær Nielsen 4809–4818

ENZYMOLGY AND PROTEIN ENGINEERING

- Stoichiometric Assembly of the Cellulosome Generates Maximum Synergy for the Degradation of Crystalline Cellulose, as Revealed by *In Vitro* Reconstitution of the *Clostridium thermocellum* Cellulosome Katsuaki Hirano, Satoshi Nihei, Hiroki Hasegawa, Mitsuru Haruki, Nobutaka Hirano 4756–4766

FOOD MICROBIOLOGY

Bacteriophages Isolated from Chicken Meat and the Horizontal Transfer of Antimicrobial Resistance Genes

Amira Shousha, Nattakarn Aawaiwanont, Dmitrij Sofka, Frans J. M. Smulders, Peter Paulsen, Michael P. Szostak, Tom Humphrey, Friederike Hilbert 4600–4606

Role of Extracellular Structures of *Escherichia coli* O157:H7 in Initial Attachment to Biotic and Abiotic Surfaces

Attila Nagy, Joseph Mowery, Gary R. Bauchan, Lili Wang, Lydia Nichols-Russell, Xiangwu Nou 4720–4727

Effects of Abiotic and Biotic Stresses on the Internalization and Dissemination of Human Norovirus Surrogates in Growing Romaine Lettuce

Erin DiCaprio, Anastasia Purgianto, Jianrong Li 4791–4800

Enterocin F4-9, a Novel O-Linked Glycosylated Bacteriocin

Mohamed Abdelfattah Maky, Naoki Ishibashi, Takeshi Zendo, Rodney Honrada Perez, Jehan Ragab Doud, Mohamed Karmi, Kenji Sonomoto 4819–4826

Thermal Inactivation Kinetics of Human Norovirus Surrogates and Hepatitis A Virus in Turkey Deli Meat

Hayriye Bozkurt, Doris H. D'Souza, P. Michael Davidson 4850–4859

GENETICS AND MOLECULAR BIOLOGY

The Intestinal Microbiota Influences *Campylobacter jejuni* Colonization and Extraintestinal Dissemination in Mice

Jason L. O'Loughlin, Derrick R. Samuelson, Andrea G. Braundmeier-Fleming, Bryan A. White, Gary J. Haldorson, Jennifer B. Stone, Jeremy J. Lessmann, Tyson P. Eucker, Michael E. Konkel 4642–4650

Acute Limonene Toxicity in *Escherichia coli* Is Caused by Limonene Hydroperoxide and Alleviated by a Point Mutation in Alkyl Hydroperoxidase AhpC

Victor Chubukov, Florence Mingardon, Wendy Schackwitz, Edward E. K. Baidoo, Jorge Alonso-Gutierrez, Qijun Hu, Taek Soon Lee, Jay D. Keasling, Aindrila Mukhopadhyay 4690–4696

INVERTEBRATE MICROBIOLOGY

Wolbachia Influences the Production of Octopamine and Affects *Drosophila* Male Aggression

Chelsie E. Rohrscheib, Elizabeth Bondy, Peter Josh, Markus Riegler, Darryl Eyles, Bruno van Swinderen, Michael W. Weible II, Jeremy C. Brownlie 4573–4580

Use of Hybridization Chain Reaction-Fluorescent *In Situ* Hybridization To Track Gene Expression by Both Partners during Initiation of Symbiosis

K. Nikolakakis, E. Lehnert, M. J. McFall-Ngai, E. G. Ruby 4728–4735

MICROBIAL ECOLOGY

Stable-Isotope Probing Identifies Uncultured *Planctomycetes* as Primary Degradors of a Complex Heteropolysaccharide in Soil

Xiaoqing Wang, Christine E. Sharp, Gareth M. Jones, Stephen E. Grasby, Allyson L. Brady, Peter F. Dunfield 4607–4615

Ruminal Bacterial Community Composition in Dairy Cows Is Dynamic over the Course of Two Lactations and Correlates with Feed Efficiency

Kelsea A. Jewell, Caroline A. McCormick, Christine L. Odt, Paul J. Weimer, Garret Suen 4697–4710

PHYSIOLOGY

2,3-Butanediol Metabolism in the Acetogen *Acetobacterium woodii*

Verena Hess, Olga Oyrík, Dragan Trifunović, Volker Müller 4711–4719

Energy Conservation Model Based on Genomic and Experimental Analyses of a Carbon Monoxide-Utilizing, Butyrate-Forming Acetogen, *Eubacterium limosum* KIST612

Jiyeong Jeong, Johannes Bertsch, Verena Hess, Sunju Choi, In-Geol Choi, In Seop Chang, Volker Müller 4782–4790

PLANT MICROBIOLOGY

Aggressive Emerging Pathovars of *Xanthomonas arboricola* Represent Widespread Epidemic Clones Distinct from Poorly Pathogenic Strains, as Revealed by Multilocus Sequence Typing

Marion Fischer-Le Saux, Sophie Bonneau, Salwa Essakhi, Charles Manceau, Marie-Agnès Jacques 4651–4668

Mutual Exclusion between Fungal Species of the *Fusarium* Head Blight Complex in a Wheat Spike

Dorothee Siou, Sandrine Gélisse, Valérie Laval, Frédéric Suffert, Christian Lannou 4682–4689

Phytobeneficial Properties of Bacteria Isolated from the Rhizosphere of Maize in Southwestern Nigerian Soils

M. A. Abiala, A. C. Odebode, S. F. Hsu, C. B. Blackwood 4736–4743

PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY

Chlamydiaceae in North Atlantic Seabirds Admitted to a Wildlife Rescue Center in Western France

R. Aaziz, P. Gourlay, F. Vorimore, K. Sachse, V. I. Siarkou, K. Laroucau 4581–4590

Soil Conditions That Can Alter Natural Suppression of *Escherichia coli* O157:H7 in Ohio Specialty Crop Soils

Michele L. Williams, Jeffrey T. LeJeune, Brian McSpadden Gardener 4634–4641

Meta-Analysis of the Reduction of Norovirus and Male-Specific Coliphage Concentrations in Wastewater Treatment Plants

Régis Pouillot, Jane M. Van Doren, Jacqueline Woods, Daniel Plante, Mark Smith, Gregory Goblick, Christopher Roberts, Annie Locas, Walter Hajen, Jeffrey Stobo, John White, Jennifer Holtzman, Enrico Buenaventura, William Burkhardt III, Angela Catford, Robyn Edwards, Angelo DePaola, Kevin R. Calci 4669–4681

Giardia spp. Are Commonly Found in Mixed Assemblages in Surface Water, as Revealed by Molecular and Whole-Genome Characterization

Natalig Prystajecy, Clement K.-M. Tsui, William W. L. Hsiao, Miguel I. Uyaguari-Diaz, Jordan Ho, Patrick Tang, Judith Isaac-Renton 4827–4834

Yersinia enterocolitica Isolates from Wild Boars Hunted in Lower Saxony, Germany

Alexandra von Altrock, Diana Seinige, Corinna Kehrenberg 4835–4840

TABLE OF CONTENTS

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors

4873

BIOTECHNOLOGY

In Vivo Programmed Gene Expression Based on Artificial Quorum Networks

Teng Chu, Yajun Huang, Mingyu Hou, Qiyao Wang, Jingfan Xiao, Qin Liu, Yuanxing Zhang 4984–4992

Coupling the CRISPR/Cas9 System with Lambda Red Recombineering Enables Simplified Chromosomal Gene Replacement in *Escherichia coli*

Michael E. Pyne, Murray Moo-Young, Duane A. Chung, C. Perry Chou 5103–5114

ENVIRONMENTAL MICROBIOLOGY

Chromosome-Directed PCR-Based Detection and Quantification of *Bacillus cereus* Group Members with Focus on *B. thuringiensis* Serovar israelensis Active against Nematoceran Larvae

Salome Schneider, Niels B. Hendriksen, Petter Melin, Jan O. Lundström, Ingvar Sundh 4894–4903

Molybdenum Availability Is Key to Nitrate Removal in Contaminated Groundwater Environments

Michael P. Thorgersen, W. Andrew Lancaster, Brian J. Vaccaro, Farris L. Poole, Andrea M. Rocha, Tonia Mehlhorn, Angelica Pettenato, Jayashree Ray, R. Jordan Waters, Ryan A. Melnyk, Romy Chakraborty, Terry C. Hazen, Adam M. Deutschbauer, Adam P. Arkin, Michael W. W. Adams 4976–4983

Prey-Specific Growth Responses of Freshwater Flagellate Communities Induced by Morphologically Distinct Bacteria from the Genus *Limnohabitans*

Vesna Grujić, Vojtěch Kasalický, Karel Šimek 4993–5002

Microbial Source Tracking in Adjacent Karst Springs

Shoshanit Ohad, Dalit Vaizel-Ohayon, Meir Rom, Joseph Guttman, Diego Berger, Valeria Kravitz, Shlomo Pilo, Zohar Huberman, Yechezkel Kashi, Efrat Rorman 5037–5047

Survival of *Listeria monocytogenes* in Soil Requires AgrA-Mediated Regulation

Anne-Laure Vivant, Dominique Garmyn, Laurent Gal, Alain Hartmann, Pascal Piveteau 5073–5084

Dual Roles of Capsular Extracellular Polymeric Substances in Photocatalytic Inactivation of *Escherichia coli*: Comparison of *E. coli* BW25113 and Isogenic Mutants

Guocheng Huang, Dehua Xia, Taicheng An, Tsz Wai Ng, Ho Yin Yip, Guiying Li, Huijun Zhao, Po Keung Wong 5174–5183

Tulane Virus as a Potential Surrogate To Mimic Norovirus Behavior in Oysters

Najoua Drouaz, Julien Schaeffer, Tibor Farkas, Jacques Le Pendu, Françoise S. Le Guyader 5249–5256

Inactivation of *Escherichia coli* Cells in Aqueous Solution by Atmospheric-Pressure N₂, He, Air, and O₂ Microplasmas

Renwu Zhou, Xianhui Zhang, Zhenhua Bi, Zichao Zong, Jinhai Niu, Ying Song, Dongping Liu, Size Yang 5257–5265

ENZYMOLGY AND PROTEIN ENGINEERING

- A Versatile Family 3 Glycoside Hydrolase from *Bifidobacterium adolescentis* Hydrolyzes β -Glucosides of the *Fusarium* Mycotoxins Deoxynivalenol, Nivalenol, and HT-2 Toxin in Cereal Matrices 4885–4893
Herbert Michlmayr, Elisabeth Varga, Alexandra Malachova, Nhung Thi Nguyen, Cindy Lorenz, Dietmar Haltrich, Franz Berthiller, Gerhard Adam
- Identification of GH15 Family Thermophilic Archaeal Trehalases That Function within a Narrow Acidic-pH Range 4920–4931
Masayoshi Sakaguchi, Satoru Shimodaira, Shin-nosuke Ishida, Miko Amemiya, Shotaro Honda, Yasusato Sugahara, Fumitaka Oyama, Masao Kawakita
- Structural and Mechanistic Insights into the *Pseudomonas fluorescens* 2-Nitrobenzoate 2-Nitroreductase NbaA 5266–5277
Yong-Hak Kim, Wooseok Song, Jin-Sik Kim, Li Jiao, Kangseok Lee, Nam-Chul Ha

EVOLUTIONARY AND GENOMIC MICROBIOLOGY

- Whole-Genome Sequence Analysis and Genome-Wide Virulence Gene Identification of *Riemerella anatipestifer* Strain Yb2 5093–5102
Xiaolan Wang, Chan Ding, Shaohui Wang, Xiangan Han, Shengqing Yu
- Living in an Extremely Polluted Environment: Clues from the Genome of Melanin-Producing *Aeromonas salmonicida* subsp. *pectinolytica* 34mel^T 5235–5248
María Elisa Pavan, Esteban E. Pavan, Nancy I. López, Laura Levin, M. Julia Pettinari

FOOD MICROBIOLOGY

- Destruction of the Capsid and Genome of GII.4 Human Norovirus Occurs during Exposure to Metal Alloys Containing Copper 4940–4946
C. S. Manuel, M. D. Moore, L. A. Jaykus
- Involvement of Colonizing *Bacillus* Isolates in Glucovanillin Hydrolysis during the Curing of *Vanilla planifolia* Andrews 4947–4954
Yonggan Chen, Fenglin Gu, Jihua Li, Shuzhen He, Fei Xu, Yiming Fang
- Feline Calicivirus, Murine Norovirus, Porcine Sapovirus, and Tulane Virus Survival on Postharvest Lettuce 5085–5092
Malak A. Esseili, Linda J. Saif, Tibor Farkas, Qihong Wang
- Changes in Sodium, Calcium, and Magnesium Ion Concentrations That Inhibit *Geobacillus* Biofilms Have No Effect on *Anoxybacillus flavithermus* Biofilms 5115–5122
B. Somerton, D. Lindsay, J. Palmer, J. Brooks, S. Flint
- Microbiota Dynamics Associated with Environmental Conditions and Potential Roles of Cellulolytic Communities in Traditional Chinese Cereal Starter Solid-State Fermentation 5144–5156
Pan Li, Hebin Liang, Wei-Tie Lin, Feng Feng, Lixin Luo

GENETICS AND MOLECULAR BIOLOGY

- Comparative Analysis of Denitrifying Activities of *Hyphomicrobium nitratorans*, *Hyphomicrobium denitrificans*, and *Hyphomicrobium zavarzinii* 5003–5014
Christine Martineau, Florian Mauffrey, Richard Villemur
- Genetics and Physiology of Acetate Metabolism by the Pta-Ack Pathway of *Streptococcus mutans* 5015–5025
Jeong Nam Kim, Sang-Joon Ahn, Robert A. Burne
- Increasing Avermectin Production in *Streptomyces avermitilis* by Manipulating the Expression of a Novel TetR-Family Regulator and Its Target Gene Product 5157–5173
Wenshuai Liu, Qinling Zhang, Jia Guo, Zhi Chen, Jilun Li, Ying Wen
- CysK Plays a Role in Biofilm Formation and Colonization by *Vibrio fischeri* 5223–5234
Priyanka Singh, John F. Brooks II, Valerie A. Ray, Mark J. Mandel, Karen L. Visick

GEOMICROBIOLOGY

- Diversity of the Sediment Microbial Community in the Aha Watershed (Southwest China) in Response to Acid Mine Drainage Pollution Gradients 4874–4884
Weimin Sun, Tangfu Xiao, Min Sun, Yiran Dong, Zengping Ning, Enzong Xiao, Song Tang, Jiwei Li

Fungal Bioweathering of Mimetite and a General Geomycological Model for Lead Apatite Mineral Biotransformations	Andrea Ceci, Martin Kierans, Stephen Hillier, Anna Maria Persiani, Geoffrey Michael Gadd	4955–4964
Microbial Diversity in Engineered Haloalkaline Environments Shaped by Shared Geochemical Drivers Observed in Natural Analogues	Talitha C. Santini, Lesley A. Warren, Kathryn E. Kendra	5026–5036
INVERTEBRATE MICROBIOLOGY		
Resistance to <i>Bacillus thuringiensis</i> Toxin Cry2Ab in <i>Trichoplusia ni</i> Is Conferred by a Novel Genetic Mechanism	Xiaozhao Song, Wendy Kain, Douglas Cassidy, Ping Wang	5184–5195
METHODS		
Comparison of Quantitative PCR and Droplet Digital PCR Multiplex Assays for Two Genera of Bloom-Forming Cyanobacteria, <i>Cylindrospermopsis</i> and <i>Microcystis</i>	Shu Harn Te, Enid Yingru Chen, Karina Yew-Hoong Gin	5203–5211
MICROBIAL ECOLOGY		
Influence of Land Use, Nutrients, and Geography on Microbial Communities and Fecal Indicator Abundance at Lake Michigan Beaches	Danielle D. Cloutier, Elizabeth W. Alm, Sandra L. McLellan	4904–4913
Microbiota at Multiple Body Sites during Pregnancy in a Rural Tanzanian Population and Effects of Moringa-Supplemented Probiotic Yogurt	Jordan E. Bisanz, Megan K. Enos, George PrayGod, Shannon Seney, Jean M. Macklaim, Stephanie Chilton, Dana Willner, Rob Knight, Christoph Fusch, Gerhard Fusch, Gregory B. Gloor, Jeremy P. Burton, Gregor Reid	4965–4975
Mining for Nonribosomal Peptide Synthetase and Polyketide Synthase Genes Revealed a High Level of Diversity in the <i>Sphagnum</i> Bog Metagenome	Christina A. Müller, Lisa Oberauner-Wappis, Armin Peyman, Gregory C. A. Amos, Elizabeth M. H. Wellington, Gabriele Berg	5064–5072
Genetic Structure and Antimicrobial Resistance of <i>Escherichia coli</i> and Cryptic Clades in Birds with Diverse Human Associations	Michaela D. J. Blyton, Hongfei Pi, Belinda Vangchhia, Sam Abraham, Darren J. Trott, James R. Johnson, David M. Gordon	5123–5133
Novel N4 Bacteriophages Preval in the Cold Biosphere	Yuanhao Zhan, Alison Buchan, Feng Chen	5196–5202
PHYSIOLOGY		
Transcriptomic and Proteomic Profiling of <i>Anabaena</i> sp. Strain 90 under Inorganic Phosphorus Stress	Jonna Teikari, Julia Österholm, Matthias Kopf, Natalia Battchikova, Matti Wahlsten, Eva-Mari Aro, Wolfgang R. Hess, Kaarina Sivonen	5212–5222
PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY		
Reaerosolization of Spores from Flooring Surfaces To Assess the Risk of Dissemination and Transmission of Infections	Susan Paton, Katy-Anne Thompson, Simon R. Parks, Allan M. Bennett	4914–4919
Wastewater Analysis Indicates that Genetically Diverse Astroviruses, Including Strains Belonging to Novel Clades MLB and VA, Are Circulating within Japanese Populations	Akihiko Hata, Hiroyuki Katayama, Masaaki Kitajima, Hiroaki Furumai	4932–4939
<i>Oxalobacter formigenes</i> Colonization and Oxalate Dynamics in a Mouse Model	Xingsheng Li, Melissa L. Ellis, John Knight	5048–5054

Arcobacter butzleri, *Arcobacter cryaerophilus*, and *Arcobacter skirrowii* Circulation in a Dairy Farm and Sources of Milk Contamination

Federica Giacometti, Alex Lucchi, Antonietta Di Francesco, Mauro Delogu, Ester Grilli, Ilaria Guarniero, Laura Stancampiano, Gerardo Manfreda, Giuseppe Merialdi, Andrea Serraino 5055–5063

Automated Sampling Procedures Supported by High Persistence of Bacterial Fecal Indicators and *Bacteroidetes* Genetic Microbial Source Tracking Markers in Municipal Wastewater during Short-Term Storage at 5°C

R. E. Mayer, J. Vierheilig, L. Egle, G. H. Reischer, E. Saracevic, R. L. Mach, A. K. T. Kirschner, M. Zessner, R. Sommer, A. H. Farnleitner 5134–5143

ERRATUM

Erratum for Jiang et al., Zoonotic and Potentially Host-Adapted *Enterocytozoon bieneusi* Genotypes in Sheep and Cattle in Northeast China and an Increasing Concern about the Zoonotic Importance of Previously Considered Ruminant-Adapted Genotypes

Yanxue Jiang, Wei Tao, Qiang Wan, Qiao Li, Yuqi Yang, Yongchao Lin, Siwen Zhang, Wei Li 5278

TABLE OF CONTENTS

SPOTLIGHT

- Articles of Significant Interest Selected from This Issue by the Editors 5279

MINIREVIEW

- Phenotypic Heterogeneity, a Phenomenon That May Explain Why Quorum Sensing Does Not Always Result in Truly Homogenous Cell Behavior Jessica Grote, Dagmar Krysciak, Wolfgang R. Streit 5280–5289

BIOTECHNOLOGY

- Total Biosynthesis and Diverse Applications of the Nonribosomal Peptide-Polyketide Siderophore Yersiniabactin Mahmoud Kamal Ahmadi, Samar Fawaz, Charles H. Jones, Guojian Zhang, Blaine A. Pfeifer 5290–5298
- Gene Replacement for the Generation of Designed Novel Avermectin Derivatives with Enhanced Acaricidal and Nematicidal Activities Jun Huang, An-Liang Chen, Hui Zhang, Zhen Yu, Mei-Hong Li, Na Li, Jia-Tan Lin, Hua Bai, Ji-Dong Wang, Yu-Guo Zheng 5326–5334
- Activation of Histidine Kinase SpaK Is Mediated by the N-Terminal Portion of Subtilin-Like Lantibiotics and Is Independent of Lipid II Tobias Spieß, Sophie Marianne Korn, Peter Kötter, Karl-Dieter Entian 5335–5343
- Three New Cutinases from the Yeast *Arxula adeninivorans* That Are Suitable for Biotechnological Applications Felix Bischoff, Katarzyna Litwińska, Arno Cordes, Keith Baronian, Rüdiger Bode, Frieder Schauer, Gotthard Kunze 5497–5510

ENVIRONMENTAL MICROBIOLOGY

- Physiology, Genomics, and Pathway Engineering of an Ethanol-Tolerant Strain of *Clostridium phytofermentans* Andrew C. Tolonen, Trevor R. Zuroff, Mohandass Ramya, Magali Boutard, Tristan Cerisy, Wayne R. Curtis 5440–5448
- Identification of a Chemoreceptor for C₂ and C₃ Carboxylic Acids Vanina García, Jose-Antonio Reyes-Darias, David Martín-Mora, Bertrand Morel, Miguel A. Matilla, Tino Krell 5449–5457
- Correlation of *Lactobacillus rhamnosus* Genotypes and Carbohydrate Utilization Signatures Determined by Phenotype Profiling Corina Ceapa, Jolanda Lambert, Kees van Limpt, Michiel Wels, Tamara Smokvina, Jan Knol, Michiel Kleerebezem 5458–5470
- Treatment of Alkaline Cr(VI)-Contaminated Leachate with an Alkaliphilic Metal-Reducing Bacterium Mathew P. Watts, Tatiana V. Khijniak, Christopher Boothman, Jonathan R. Lloyd 5511–5518
- Acromyrmex* Leaf-Cutting Ants Have Simple Gut Microbiota with Nitrogen-Fixing Potential Panagiotis Sapountzis, Mariya Zhukova, Lars H. Hansen, Søren J. Sørensen, Morten Schiøtt, Jacobus J. Boomsma 5527–5537
- Anaerobic Oxidation of Methane Coupled to Nitrite Reduction by Halophilic Marine NC10 Bacteria Zhanfei He, Sha Geng, Chaoyang Cai, Shuai Liu, Yan Liu, Yawei Pan, Liping Lou, Ping Zheng, Xinhua Xu, Baolan Hu 5538–5545
- Facultative Anaerobe *Caldibacillus debilis* GB1: Characterization and Use in a Designed Aerotolerant, Cellulose-Degrading Coculture with *Clostridium thermocellum* Scott Wushke, David B. Levin, Nazim Cicek, Richard Sparling 5567–5573

Diversity of O Antigens within the Genus <i>Cronobacter</i> : from Disorder to Order	Martina Blažková, Barbora Javůrková, Jiří Vlach, Sandra Göselová, Ludmila Karamonová, Pauline Ogrodzki, Stephen Forsythe, Ladislav Fukal	5574–5582
Sharply Tuned pH Response of Genetic Competence Regulation in <i>Streptococcus mutans</i> : a Microfluidic Study of the Environmental Sensitivity of <i>comX</i>	Minjun Son, Delaram Ghoreishi, Sang-Joon Ahn, Robert A. Burne, Stephen J. Hagen	5622–5631
ENZYMOLGY AND PROTEIN ENGINEERING		
Mesaconase Activity of Class I Fumarase Contributes to Mesaconate Utilization by <i>Burkholderia xenovorans</i>	Miriam Kronen, Jahminy Sasikaran, Ivan A. Berg	5632–5638
EVOLUTIONARY AND GENOMIC MICROBIOLOGY		
Adaptive Evolution of <i>Thermotoga maritima</i> Reveals Plasticity of the ABC Transporter Network	Haythem Latif, Merve Sahin, Janna Tarasova, Yekaterina Tarasova, Vasilii A. Portnoy, Juan Nogales, Karsten Zengler	5477–5485
FOOD MICROBIOLOGY		
Development of Multiple-Locus Variable-Number Tandem-Repeat Analysis for Molecular Subtyping of <i>Campylobacter jejuni</i> by Using Capillary Electrophoresis	Punnida Techaruvichit, Hajime Takahashi, Mongkol Vesaratchavest, Suwimon Keeratipibul, Takashi Kuda, Bon Kimura	5318–5325
Genes Associated with Desiccation and Osmotic Stress in <i>Listeria monocytogenes</i> as Revealed by Insertional Mutagenesis	Patricia A. Hingston, Marta J. Piercey, Lisbeth Truelstrup Hansen	5350–5362
Genotyping and Source Tracking of <i>Cronobacter sakazakii</i> and <i>C. malonaticus</i> Isolates from Powdered Infant Formula and an Infant Formula Production Factory in China	Peng Fei, Chaoxin Man, Binbin Lou, Stephen J. Forsythe, Yunlei Chai, Ran Li, Jieting Niu, Yujun Jiang	5430–5439
Protozoan Cysts Act as a Survival Niche and Protective Shelter for Foodborne Pathogenic Bacteria	Ellen Lambrecht, Julie Baré, Natascha Chavatte, Wim Bert, Koen Sabbe, Kurt Houf	5604–5612
GENETICS AND MOLECULAR BIOLOGY		
<i>SnPKS19</i> Encodes the Polyketide Synthase for Alternariol Mycotoxin Biosynthesis in the Wheat Pathogen <i>Parastagonospora nodorum</i>	Yit-Heng Chooi, Mariano Jordi Muria-Gonzalez, Oliver L. Mead, Peter S. Solomon	5309–5317
Dynamics of the <i>Streptococcus gordonii</i> Transcriptome in Response to Medium, Salivary α -Amylase, and Starch	Elaine M. Haase, Xianghui Feng, Jiachuan Pan, Jeffrey C. Miecznikowski, Frank A. Scannapieco	5363–5374
pSW2, a Novel Low-Temperature-Inducible Gene Expression Vector Based on a Filamentous Phage of the Deep-Sea Bacterium <i>Shewanella piezotolerans</i> WP3	Xin-Wei Yang, Hua-Hua Jian, Feng-Ping Wang	5519–5526
Silencing of Essential Genes within a Highly Coordinated Operon in <i>Escherichia coli</i>	Shan Goh, Angela Hohmeier, Timothy C. Stone, Victoria Offord, Francisco Sarabia, Cristina Garcia-Ruiz, Liam Good	5650–5659
GEOMICROBIOLOGY		
Enhanced <i>Alcaligenes faecalis</i> Denitrification Rate with Electrodes as the Electron Donor	Xin Wang, Ping Yu, Cuiping Zeng, Hongrui Ding, Yan Li, Changqiu Wang, Anhuai Lu	5387–5394
INVERTEBRATE MICROBIOLOGY		
" <i>Wigglesworthia morsitans</i> " Folate (Vitamin B ₉) Biosynthesis Contributes to Tsetse Host Fitness	Anna K. Snyder, Rita V. M. Rio	5375–5386
<i>Paenibacillus larvae</i> -Directed Bacteriophage HB10c2 and Its Application in American Foulbrood-Affected Honey Bee Larvae	Hannes Beims, Johannes Wittmann, Boyke Bunk, Cathrin Spröer, Christine Rohde, Gabi Günther, Manfred Rohde, Werner von der Ohe, Michael Steinert	5411–5419

Ecology, Virulence, and Phylogeny of <i>Blastulidium paedophthorum</i> , a Widespread Brood Parasite of <i>Daphnia</i> spp.	Meghan A. Duffy, Timothy Y. James, Alan Longworth	5486–5496
METHODS		
Dual-Color Bioluminescence Imaging for Simultaneous Monitoring of the Intestinal Persistence of <i>Lactobacillus plantarum</i> and <i>Lactococcus lactis</i> in Living Mice	Catherine Daniel, Sabine Poirer, Véronique Dennin, Denise Boutillier, Delphine Armelle Lacorre, Benoit Foligné, Bruno Pot	5344–5349
Screening of <i>Chlamydomonas reinhardtii</i> Populations with Single-Cell Resolution by Using a High-Throughput Microscale Sample Preparation for Matrix-Assisted Laser Desorption Ionization Mass Spectrometry	Jasmin Krismer, Jens Sobek, Robert F. Steinhoff, Stephan R. Fagerer, Martin Pabst, Renato Zenobi	5546–5551
Beyond Agar: Gel Substrates with Improved Optical Clarity and Drug Efficiency and Reduced Autofluorescence for Microbial Growth Experiments	Philipp A. Jaeger, Cameron McElfresh, Lily R. Wong, Trey Ideker	5639–5649
MICROBIAL ECOLOGY		
Extracellular Glycoside Hydrolase Activities in the Human Oral Cavity	Taichi Inui, Lauren C. Walker, Michael W. J. Dodds, A. Bryan Hanley	5471–5476
Relationship between the Presence of <i>Bartonella</i> Species and Bacterial Loads in Cats and Cat Fleas (<i>Ctenocephalides felis</i>) under Natural Conditions	Ricardo Gutiérrez, Yaarit Nachum-Biala, Shimon Harrus	5613–5621
PHYSIOLOGY		
Novel Route for Agmatine Catabolism in <i>Aspergillus niger</i> Involves 4-Guanidinobutyrase	Sunil Kumar, Tejaswani Saragadam, Narayan S. Punekar	5593–5603
PLANT MICROBIOLOGY		
DNA Microarray-Based Identification of Genes Regulated by NtrC in <i>Bradyrhizobium japonicum</i>	William L. Franck, Jing Qiu, Hae-In Lee, Woo-Suk Chang, Gary Stacey	5299–5308
Phylogenetic and Variable-Number Tandem-Repeat Analyses Identify Nonpathogenic <i>Xanthomonas arboricola</i> Lineages Lacking the Canonical Type III Secretion System	Salwa Essakhi, Sophie Cesbron, Marion Fischer-Le Saux, Sophie Bonneau, Marie-Agnès Jacques, Charles Manceau	5395–5410
Survival and Competitiveness of <i>Bradyrhizobium japonicum</i> Strains 20 Years after Introduction into Field Locations in Poland	Dorota Narożna, Krzysztof Pudielko, Joanna Króliczak, Barbara Golińska, Masayuki Sugawara, Cezary J. Mądrzak, Michael J. Sadowsky	5552–5559
PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY		
Implications of Genome-Based Discrimination between <i>Clostridium botulinum</i> Group I and <i>Clostridium sporogenes</i> Strains for Bacterial Taxonomy	Michael R. Weigand, Angela Pena-Gonzalez, Timothy B. Shirey, Robin G. Broeker, Maliha K. Ishaq, Konstantinos T. Konstantinidis, Brian H. Raphael	5420–5429
Prevalence of Antimicrobial Resistance and Transfer of Tetracycline Resistance Genes in <i>Escherichia coli</i> Isolates from Beef Cattle	Seung Won Shin, Min Kyoung Shin, Myunghwan Jung, Kuastros Mekonnen Belaynehe, Han Sang Yoo	5560–5566
Microbial Infections Are Associated with Embryo Mortality in Arctic-Nesting Geese	Cristina M. Hansen, Brandt W. Meixell, Caroline Van Hemert, Rebekah F. Hare, Karsten Hueffer	5583–5592

Cover photograph (Copyright © 2015, American Society for Microbiology. All Rights Reserved): Uninfected (left) and infected (right) *Daphnia* hosts. The individual on the left has three healthy embryos in her brood chamber, while the individual on the right has three embryos that have been attacked by the oomycete *Blastulidium paedophthorum*. The *Daphnia* individuals are the same genotype, a *Daphnia pulex* × *pulicaria* hybrid. (Photo by Meghan Duffy.) (See related article on page 5486.)

TABLE OF CONTENTS

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors

5661

MINIREVIEW

Physiological and Transcriptional Responses of Different Industrial Microbes at Near-Zero Specific Growth Rates

Onur Ercan, Markus M. M. Bisschops, Wout Overkamp, Thomas R. Jørgensen, Arthur F. Ram, Eddy J. Smid, Jack T. Pronk, Oscar P. Kuipers, Pascale Daran-Lapujade, Michiel Kleerebezem

5662–5670

MEETING REVIEW

The United States Culture Collection Network (USCCN): Enhancing Microbial Genomics Research through Living Microbe Culture Collections

Kyria Boundy-Mills, Matthias Hess, A. Rick Bennett, Matthew Ryan, Seogchan Kang, David Nobles, Jonathan A. Eisen, Patrik Inderbitzin, Irnayuli R. Sitepu, Tamas Torok, Daniel R. Brown, Juliana Cho, John E. Wertz, Supratim Mukherjee, Sherry L. Cady, Kevin McCluskey

5671–5674

BIOTECHNOLOGY

An Exopolysaccharide-Deficient Mutant of *Lactobacillus rhamnosus* GG Efficiently Displays a Protective Llama Antibody Fragment against Rotavirus on Its Surface

Beatriz Álvarez, Kasper Krogh-Andersen, Christian Tellgren-Roth, Noelia Martínez, Gökçe Günaydin, Yin Lin, M. Cruz Martín, Miguel A. Álvarez, Lennart Hammarström, Harold Marcotte

5784–5793

Polar Fixation of Plasmids during Recombinant Protein Production in *Bacillus megaterium* Results in Population Heterogeneity

Karin M. Münch, Johannes Müller, Sarah Wienecke, Simone Bergmann, Steffi Heyber, Rebekka Biedendieck, Richard Münch, Dieter Jahn

5976–5986

ENVIRONMENTAL MICROBIOLOGY

Community-Level and Species-Specific Associations between Phytoplankton and Particle-Associated *Vibrio* Species in Delaware's Inland Bays

Christopher R. Main, Lauren R. Salvitti, Edward B. Whereat, Kathryn J. Coyne

5703–5713

Methanotrophic and Methanogenic Communities in Swiss Alpine Fens Dominated by *Carex rostrata* and *Eriophorum angustifolium*

Simrita Cheema, Josef Zeyer, Ruth Henneberger

5832–5844

Microbial Community Composition, Functions, and Activities in the Gulf of Mexico 1 Year after the Deepwater Horizon Accident

Etienne Yergeau, Christine Maynard, Sylvie Sanschagrin, Julie Champagne, David Juck, Kenneth Lee, Charles W. Greer

5855–5866

Flocculation of *Escherichia coli* Cells in Association with Enhanced Production of Outer Membrane Vesicles

Yoshihiro Ojima, Minh Hong Nguyen, Reiki Yajima, Masahito Taya

5900–5906

Ectomycorrhizal Communities on the Roots of Two Beech (*Fagus sylvatica*) Populations from Contrasting Climates Differ in Nitrogen Acquisition in a Common Environment

Martin Leberecht, Michael Dannenmann, Silvia Gschwendtner, Silvija Bilela, Rudolf Meier, Judy Simon, Heinz Renneberg, Michael Schloter, Andrea Polle

5957–5967

ENZYMOLOGY AND PROTEIN ENGINEERING

Directed Evolution and Structural Analysis of Alkaline Pectate Lyase from the Alkaliphilic Bacterium *Bacillus* sp. Strain N16-5 To Improve Its Thermostability for Efficient Ramie Degumming

Cheng Zhou, Jintong Ye, Yanfen Xue, Yanhe Ma 5714–5723

EVOLUTIONARY AND GENOMIC MICROBIOLOGY

Clostridium botulinum Group II Isolate Phylogenomic Profiling Using Whole-Genome Sequence Data

K. A. Weedmark, P. Mabon, K. L. Hayden, D. Lambert, G. Van Domselaar, J. W. Austin, C. R. Corbett 5938–5948

FOOD MICROBIOLOGY

Acetylation Regulates Survival of *Salmonella enterica* Serovar Typhimurium under Acid Stress

Jie Ren, Yu Sang, Jinjing Ni, Jing Tao, Jie Lu, Mingwen Zhao, Yu-Feng Yao 5675–5682

Feed Fermentation with Reuteran- and Levan-Producing *Lactobacillus reuteri* Reduces Colonization of Weanling Pigs by Enterotoxigenic *Escherichia coli*

Yan Yang, Sandra Galle, Minh Hong Anh Le, Ruurd T. Zijlstra, Michael G. Ganzle 5743–5752

Use of the mCherry Fluorescent Protein To Study Intestinal Colonization by *Enterococcus mundtii* ST4SA and *Lactobacillus plantarum* 423 in Mice

Winschau F. van Zyl, Shelly M. Deane, Leon M. T. Dicks 5993–6002

Whole-Genome Sequencing Allows for Improved Identification of Persistent *Listeria monocytogenes* in Food-Associated Environments

Matthew J. Stasiewicz, Haley F. Oliver, Martin Wiedmann, Henk C. den Bakker 6024–6037

Spatial and Temporal Factors Associated with an Increased Prevalence of *Listeria monocytogenes* in Spinach Fields in New York State

Daniel Weller, Martin Wiedmann, Laura K. Strawn 6059–6069

GENETICS AND MOLECULAR BIOLOGY

Identification and Heterologous Expression of the Chaxamycin Biosynthesis Gene Cluster from *Streptomyces leeuwenhoekii*

Jean Franco Castro, Valeria Razmilic, Juan Pablo Gomez-Escribano, Barbara Andrews, Juan A. Asenjo, Mervyn J. Bibb 5820–5831

A Transmissible Plasmid-Borne Pathogenicity Island Confers Piscibactin Biosynthesis in the Fish Pathogen *Photobacterium damsela* subsp. *piscicida*

Carlos R. Osorio, Amable J. Rivas, Miguel Balado, Juan Carlos Fuentes-Monteverde, Jaime Rodríguez, Carlos Jiménez, Manuel L. Lemos, Matthew K. Waldor 5867–5879

In-Frame Deletions Allow Functional Characterization of Complex Cellulose Degradation Phenotypes in *Cellvibrio japonicus*

Cassandra E. Nelson, Jeffrey G. Gardner 5968–5975

Type III Secretion System Translocon Component EseB Forms Filaments on and Mediates Autoaggregation of and Biofilm Formation by *Edwardsiella tarda*

Zhi Peng Gao, Pin Nie, Jin Fang Lu, Lu Yi Liu, Tiao Yi Xiao, Wei Liu, Jia Shou Liu, Hai Xia Xie 6078–6087

GEOMICROBIOLOGY

Pyrobaculum yellowstonensis Strain WP30 Respires on Elemental Sulfur and/or Arsenate in Circumneutral Sulfidic Geothermal Sediments of Yellowstone National Park

Z. J. Jay, J. P. Beam, A. Dohnalkova, R. Lohmayer, B. Bodle, B. Planer-Friedrich, M. Romine, W. P. Inskeep 5907–5916

New Insight into Microbial Iron Oxidation as Revealed by the Proteomic Profile of an Obligate Iron-Oxidizing Chemolithoautotroph

Roman A. Barco, David Emerson, Jason B. Sylvan, Beth N. Orcutt, Myrna E. Jacobson Meyers, Gustavo A. Ramírez, John D. Zhong, Katrina J. Edwards 5927–5937

INVERTEBRATE MICROBIOLOGY

Microbial Diversity and Putative Diazotrophy in High- and Low-Microbial-Abundance Mediterranean Sponges

Marta Ribes, Claudia Dziallas, Rafel Coma, Lasse Riemann 5683–5693

Composition of Bacterial Communities Associated with <i>Aurelia aurita</i> Changes with Compartment, Life Stage, and Population	Nancy Weiland-Bräuer, Sven C. Neulinger, Nicole Pinnow, Sven Künzel, John F. Baines, Ruth A. Schmitz	6038–6052
METHODS		
World Health Organization International Standard To Harmonize Assays for Detection of <i>Mycoplasma</i> DNA	C. Micha Nübling, Sally A. Baylis, Kay-Martin Hanschmann, Thomas Montag-Lessing, Michael Chudy, Julia Kreß, Ursula Ulrych, Stefan Czurda, Renate Rosengarten, the Mycoplasma Collaborative Study Group	5694–5702
Multilocus PCR Assays Elucidate Vegetative Incompatibility Gene Profiles of <i>Cryphonectria parasitica</i> in the United States	Dylan P. G. Short, Mark Double, Donald L. Nuss, Cameron M. Stauder, William MacDonald, Matthew T. Kasson	5736–5742
Indirect Immunodetection of Fungal Fragments by Field Emission Scanning Electron Microscopy	Komlavi Anani Afanou, Anne Straumfors, Asbjørn Skogstad, Ajay P. Nayak, Ida Skaar, Linda Hjeljord, Arne Tronsmo, Wijnand Eduard, Brett James Green	5794–5803
Development and Evaluation of Three Real-Time PCR Assays for Genotyping and Source Tracking <i>Cryptosporidium</i> spp. in Water	Na Li, Norman F. Neumann, Norma Ruecker, Kerri A. Alderisio, Gregory D. Sturbaum, Eric N. Villegas, Rachel Chalmers, Paul Monis, Yaoyu Feng, Lirua Xiao	5845–5854
Phenotypic and Phylogenetic Identification of Coliform Bacteria Obtained Using 12 Coliform Methods Approved by the U.S. Environmental Protection Agency	Ya Zhang, Pei-Ying Hong, Mark W. LeChevallier, Wen-Tso Liu	6012–6023
MICROBIAL ECOLOGY		
Coral Mucus Is a Hot Spot for Viral Infections	Hanh Nguyen-Kim, Yvan Bettarel, Thierry Bouvier, Corinne Bouvier, Hai Doan-Nhu, Lam Nguyen-Ngoc, Thuy Nguyen-Thanh, Huy Tran-Quang, Justine Brune	5773–5783
Spatial Variation and Survival of <i>Salmonella enterica</i> Subspecies in a Population of Australian Sleepy Lizards (<i>Tiliqua rugosa</i>)	Sandra K. Parsons, C. Michael Bull, David M. Gordon	5804–5811
Genetic Analysis of the <i>Aspergillus flavus</i> Vegetative Compatibility Group to Which a Biological Control Agent That Limits Aflatoxin Contamination in U.S. Crops Belongs	Lisa C. Grubisha, Peter J. Cotty	5889–5899
Cable Bacteria in Freshwater Sediments	Nils Risgaard-Petersen, Michael Kristiansen, Rasmus B. Frederiksen, Anders Lindequist Dittmer, Jesper Tataru Bjerg, Daniela Trojan, Lars Schreiber, Lars Riis Damgaard, Andreas Schramm, Lars Peter Nielsen	6003–6011
Responses of Bacterial Communities to Simulated Climate Changes in Alpine Meadow Soil of the Qinghai-Tibet Plateau	Junpeng Rui, Jiabao Li, Shiping Wang, Jiaying An, Wen-tso Liu, Qiaoyan Lin, Yunfeng Yang, Zhili He, Xiangzhen Li	6070–6077
PHYSIOLOGY		
Identification of a Specific Maleate Hydratase in the Direct Hydrolysis Route of the Gentisate Pathway	Kun Liu, Ying Xu, Ning-Yi Zhou	5753–5760

Phenolic Amides Are Potent Inhibitors of *De Novo* Nucleotide Biosynthesis

Tippapha Pisithkul, Tyler B. Jacobson, Thomas J. O'Brien, David M. Stevenson, Daniel Amador-Noguez 5761–5772

Nitrite-Oxidizing Bacterium *Nitrobacter winogradskyi* Produces N-Acyl-Homoserine Lactone Autoinducers

Brett L. Mellbye, Peter J. Bottomley, Luis A. Sayavedra-Soto 5917–5926

CO Metabolism in the Acetogen *Acetobacterium woodii*

Johannes Bertsch, Volker Müller 5949–5956

PLANT MICROBIOLOGY

A Putative Type III Secretion System Effector Encoded by the *MA20_12780* Gene in *Bradyrhizobium japonicum* Is-34 Causes Incompatibility with *Rj₄* Genotype Soybeans

Hirohito Tsurumaru, Syougo Hashimoto, Kouhei Okizaki, Yu Kanesaki, Hirofumi Yoshikawa, Takeo Yamakawa 5812–5819

PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY

Within-Farm Changes in Dairy Farm-Associated *Salmonella* Subtypes and Comparison to Human Clinical Isolates in Michigan, 2000–2001 and 2009

Greg G. Habing, Shannon Manning, Carole Bolin, Yuehua Cui, James Rudrik, Stephen Dietrich, John B. Kaneene 5724–5735

Effects of Xylo-Oligosaccharides on Broiler Chicken Performance and Microbiota

C. De Maesschalck, V. Eeckhaut, L. Maertens, L. De Lange, L. Marchal, C. Nezer, S. De Baere, S. Croubels, G. Daube, J. Dewulf, F. Haesebrouck, R. Ducatelle, B. Taminau, F. Van Immerseel 5880–5888

Evaluation of a New Environmental Sampling Protocol for Detection of Human Norovirus on Inanimate Surfaces

Geun Woo Park, David Lee, Aimee Treffiletti, Mario Hrsak, Jill Shugart, Jan Vinjé 5987–5992

Environmental Factors Associated with High Fly Densities and Diarrhea in Vellore, India

Stefan Collinet-Adler, Sudhir Babji, Mark Francis, Deepthi Kattula, Prasanna Samuel Premkumar, Rajiv Sarkar, Venkat Ragava Mohan, Honorine Ward, Gagandeep Kang, Vinohar Balraj, Elena N. Naumova 6053–6058

AUTHOR CORRECTION

Correction for Grossi et al., Mono- and Dialkyl Glycerol Ether Lipids in Anaerobic Bacteria: Biosynthetic Insights from the Mesophilic Sulfate Reducer *Desulfatibacillum alkenivorans* PF2803^T

Vincent Grossi, Damien Mollex, Arnauld Vinçon-Laugier, Florence Hakil, Muriel Pacton, Cristiana Cravo-Laureau 6088

TABLE OF CONTENTS

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors	6089
--	------

MINIREVIEWS

Public Health Risks of Multiple-Drug-Resistant <i>Enterococcus</i> spp. in Southeast Asia	Diane Sunira Daniel, Sui Mae Lee, Gary A. Dykes, Sadequr Rahman	6090–6097
Diversity, Structures, and Collagen-Degrading Mechanisms of Bacterial Collagenolytic Proteases	Yu-Zhong Zhang, Li-Yuan Ran, Chun-Yang Li, Xiu-Lan Chen	6098–6107

BIOTECHNOLOGY

Development of a Recombinant <i>Escherichia coli</i> Strain for Overproduction of the Plant Pigment Anthocyanin	Chin Giaw Lim, Lynn Wong, Namita Bhan, Hila Dvora, Peng Xu, Sankaranarayanan Venkiteswaran, Mattheos A. G. Koffas	6276–6284
Novel Strategies for Genomic Manipulation of <i>Trichoderma reesei</i> with the Purpose of Strain Engineering	Christian Derntl, Daniel P. Kiesenhofer, Robert L. Mach, Astrid R. Mach-Aigner	6314–6323
Dual-Color Monitoring Overcomes the Limitations of Single Bioluminescent Reporters in Fast-Growing Microbes and Reveals Phase-Dependent Protein Productivity during the Metabolic Rhythms of <i>Saccharomyces cerevisiae</i>	Archana Krishnamoorthy, J. Brian Robertson	6484–6495

ENVIRONMENTAL MICROBIOLOGY

Development of Spatial Distribution Patterns by Biofilm Cells	Janus A. J. Haagenen, Susse K. Hansen, Bjarke B. Christensen, Sünje J. Pamp, Søren Molin	6120–6128
Molecular and Physical Factors That Influence Attachment of <i>Vibrio vulnificus</i> to Chitin	Tiffany C. Williams, Mesrop Ayrapetyan, James D. Oliver	6158–6165
Detection of Low-Level <i>Cardinium</i> and <i>Wolbachia</i> Infections in <i>Culicoides</i>	Peter T. Mee, Andrew R. Weeks, Peter J. Walker, Ary A. Hoffmann, Jean-Bernard Duchemin	6177–6188
Microbial Toluene Removal in Hypoxic Model Constructed Wetlands Occurs Predominantly via the Ring Monooxygenation Pathway	P. M. Martínez-Lavanchy, Z. Chen, V. Lünsmann, V. Marin-Cevada, R. Vilchez-Vargas, D. H. Pieper, N. Reiche, U. Kappelmeyer, V. Imparato, H. Junca, I. Nijenhuis, J. A. Müller, P. Kuschik, H. J. Heipieper	6241–6252
Differences in Physical and Biochemical Properties of <i>Thermus scotoductus</i> SA-01 Cultured with Dielectric or Convection Heating	Allison L. Cockrell, Lisa A. Fitzgerald, Kathleen D. Cusick, Daniel E. Barlow, Stanislav D. Tsoi, Carissa M. Soto, Jeffrey W. Baldwin, Jason R. Dale, Robert E. Morris, Brenda J. Little, Justin C. Biffinger	6285–6293
Abundant Trimethylornithine Lipids and Specific Gene Sequences Are Indicative of Planctomycete Importance at the Oxidic/Anoxic Interface in <i>Sphagnum</i> -Dominated Northern Wetlands	Eli K. Moore, Laura Villanueva, Ellen C. Hopmans, W. Irene C. Rijpstra, Anhelique Mets, Svetlana N. Dedysh, Jaap S. Sinninghe Damsté	6333–6344
Effects of Trichothecene Production on the Plant Defense Response and Fungal Physiology: Overexpression of the <i>Trichoderma arundinaceum</i> <i>tri4</i> Gene in <i>T. harzianum</i>	R. E. Cardoza, S. P. McCormick, M. G. Malmierca, E. R. Olivera, N. J. Alexander, E. Monte, S. Gutiérrez	6355–6366

Occurrence of and Sequence Variation among F-Specific RNA Bacteriophage Subgroups in Feces and Wastewater of Urban and Animal Origins

C. Hartard, R. Rivet, S. Banas, C. Gantzer 6505–6515

ENZYMOLGY AND PROTEIN ENGINEERING

Reconstitution of the *In Vitro* Activity of the Cyclosporine-Specific P450 Hydroxylase from *Sebekia benihana* and Development of a Heterologous Whole-Cell Biotransformation System

Li Ma, Lei Du, Hui Chen, Yue Sun, Shan Huang, Xianliang Zheng, Eung-Soo Kim, Shengying Li 6268–6275

NADP⁺-Preferring D-Lactate Dehydrogenase from *Sporolactobacillus inulinus*

Lingfeng Zhu, Xiaoling Xu, Limin Wang, Hui Dong, Bo Yu, Yanhe Ma 6294–6301

Improving the Thermostability and Activity of a Thermophilic Subtilase by Incorporating Structural Elements of Its Psychrophilic Counterpart

Bi-Lin Xu, Meihong Dai, Yuanhao Chen, Dongheng Meng, Yasi Wang, Nan Fang, Xiao-Feng Tang, Bing Tang 6302–6313

Novel pH-Stable Glycoside Hydrolase Family 3 β -Xylosidase from *Talaromyces amestolkiae*: an Enzyme Displaying Regioselective Transxylosylation

Manuel Nieto-Domínguez, Laura I. de Eugenio, Jorge Barriuso, Alicia Prieto, Beatriz Fernández de Toro, Ángeles Canales-Mayordomo, María Jesús Martínez 6380–6392

Focused Directed Evolution of Aryl-Alcohol Oxidase in *Saccharomyces cerevisiae* by Using Chimeric Signal Peptides

Javier Viña-Gonzalez, David Gonzalez-Perez, Patricia Ferreira, Angel T. Martinez, Miguel Alcalde 6451–6462

EVOLUTIONARY AND GENOMIC MICROBIOLOGY

Arsenophonus and *Sodalis* Symbionts in Louse Flies: an Analogy to the *Wigglesworthia* and *Sodalis* System in Tsetse Flies

Eva Nováková, Filip Husník, Eva Šochová, Václav Hypša 6189–6199

Chromosomal Copy Number Variation in *Saccharomyces pastorianus* Is Evidence for Extensive Genome Dynamics in Industrial Lager Brewing Strains

M. van den Broek, I. Bolat, J. F. Nijkamp, E. Ramos, M. A. H. Luttik, F. Koopman, J. M. Geertman, D. de Ridder, J. T. Pronk, J.-M. Daran 6253–6267

FOOD MICROBIOLOGY

Identification of a Novel Dye-Decolorizing Peroxidase, EfeB, Translocated by a Twin-Arginine Translocation System in *Streptococcus thermophilus* CGMCC 7.179

Chenchen Zhang, Yongping Xin, Yue Wang, Tingting Guo, Shiyi Lu, Jian Kong 6108–6119

A Caleosin-Like Protein with Peroxygenase Activity Mediates *Aspergillus flavus* Development, Aflatoxin Accumulation, and Seed Infection

Abdulsamie Hanano, Ibrahim Almously, Mouhmad Shaban, Elizabeth Blee 6129–6144

AguR, a Transmembrane Transcription Activator of the Putrescine Biosynthesis Operon in *Lactococcus lactis*, Acts in Response to the Agmatine Concentration

Daniel M. Einares, Beatriz del Rio, Begoña Redruello, Victor Ladero, M. Cruz Martin, Anne de Jong, Oscar P. Kuipers, Maria Fernandez, Miguel A. Alvarez 6145–6157

Breeding Strategy To Generate Robust Yeast Starter Cultures for Cocoa Pulp Fermentations

Esther Meersman, Jan Steensels, Tinneke Paulus, Nore Struyf, Veerle Saels, Melissa Mathawan, Jean Koffi, Gino Vrancken, Kevin J. Verstrepen 6166–6176

Attenuation of Colitis by *Lactobacillus casei* BL23 Is Dependent on the Dairy Delivery Matrix

Bokyung Lee, Xiaochen Yin, Stephen M. Griffey, Maria L. Marco 6425–6435

GENETICS AND MOLECULAR BIOLOGY

A Modified Shuttle Plasmid Facilitates Expression of a Flavin Mononucleotide-Based Fluorescent Protein in *Treponema denticola* ATCC 35405

Valentina Godovikova, M. Paula Goetting-Minesky, Jae M. Shin, Yvonne L. Kapila, Alexander H. Rickard, J. Christopher Fenno 6496–6504

INVERTEBRATE MICROBIOLOGY

Variation in the Microbiota of *Ixodes* Ticks with Regard to Geography, Species, and Sex

Will Van Treuren, Loganathan Ponnusamy, R. Jory Brinkerhoff, Antonio Gonzalez, Christian M. Parobek, Jonathan J. Juliano, Theodore G. Andreadis, Richard C. Falco, Lorenza Beati Ziegler, Nicholas Hathaway, Corinna Keeler, Michael Emch, Jeffrey A. Bailey, R. Michael Roe, Charles S. Apperson, Rob Knight, Steven R. Meshnick 6200–6209

The Host as the Driver of the Microbiota in the Gut and External Environment of *Drosophila melanogaster*

Adam C.-N. Wong, Yuan Luo, Xiangfeng Jing, Soeren Franzenburg, Alyssa Bost, Angela E. Douglas 6232–6240

Influence of *prgH* on the Persistence of Ingested *Salmonella enterica* in the Leafhopper *Macrostelus quadrilineatus*

José Pablo Dundore-Arias, Russell L. Groves, Jeri D. Barak 6345–6354

Temperature-Dependent *Galleria mellonella* Mortality as a Result of *Yersinia entomophaga* Infection

Mark R. H. Hurst, Amy K. Beattie, Sandra A. Jones, Pei-Chun Hsu, Joanne Calder, Chikako van Koten 6404–6414

MICROBIAL ECOLOGY

Uterine Microbiota Progression from Calving until Establishment of Metritis in Dairy Cows

Soo Jin Jeon, Achilles Vieira-Neto, Mohanathas Gobikrushanth, Rodolfo Daetz, Rodolfo D. Mingoti, Ana Carolina Brigolin Parize, Sabrina Lucas de Freitas, Antonio Nelson Lima da Costa, Rodrigo C. Bicalho, Svetlana Lima, K. Casey Jeong, Klíbs N. Galvão 6324–6332

PHYSIOLOGY

Dynamics of Photosynthesis in a Glycogen-Deficient *glgC* Mutant of *Synechococcus* sp. Strain PCC 7002

Simon A. Jackson, Julian J. Eaton-Rye, Donald A. Bryant, Matthew C. Posewitz, Fiona K. Davies 6210–6222

Catalase Expression Is Modulated by Vancomycin and Ciprofloxacin and Influences the Formation of Free Radicals in *Staphylococcus aureus* Cultures

Ying Wang, Anni B. Hougaard, Wilhelm Paulander, Leif H. Skibsted, Hanne Ingmer, Mogens L. Andersen 6393–6398

PLANT MICROBIOLOGY

Seasonal Changes Drive Short-Term Selection for Fitness Traits in the Wheat Pathogen *Zymoseptoria tritici*

Frédéric Suffert, Virginie Ravigné, Ivan Sache 6367–6379

Effectiveness of Natural Antifungal Compounds in Controlling Infection by Grapevine Trunk Disease Pathogens through Pruning Wounds

Rebeca Cobos, Rosa María Mateos, José Manuel Álvarez-Pérez, Miguel Angel Olego, Silvia Sevillano, Sandra González-García, Enrique Garzón-Jimeno, Juan José R. Coque 6474–6483

PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY

Host and Environmental Factors Modulate the Exposure of Free-Ranging and Farmed Red Deer (*Cervus elaphus*) to *Coxiella burnetii*

David González-Barrio, Ana Luisa Velasco Ávila, Mariana Boadella, Beatriz Beltrán-Beck, José Ángel Barasona, João P. V. Santos, João Queirós, Ana L. García-Pérez, Marta Barral, Francisco Ruiz-Fons 6223–6231

Copper Reduction and Contact Killing of Bacteria by Iron Surfaces

Salima Mathews, Ranjeet Kumar, Marc Solioz 6399–6403

Host Avian Beta-Defensin and Toll-Like Receptor Responses of Pigeons following Infection with Pigeon *Paramyxovirus* Type 1

Yanyan Li, Qianqian Xu, Tingting Zhang, Mengying Gao, Qiuling Wang, Zongxi Han, Yuhao Shao, Deying Ma, Shengwang Liu 6415–6424

Pathogenic Enteric Viruses and Microbial Indicators during Secondary Treatment of Municipal Wastewater

Naim Montazeri, Dorothee Goettert, Eric C. Achberger, Crystal N. Johnson, Witoon Prinyawiwatkul, Marlene E. Janes 6436–6445

***Bartonella* Infection among Cats Adopted from a San Francisco Shelter, Revisited**

Drew A. Fleischman, Bruno B. Chomel, Rickie W. Kasten, Matthew J. Stuckey, Jennifer Scarlet, Hongwei Liu, Henri-Jean Boulouis, Nadia Haddad, Niels C. Pedersen 6446–6450

Using Amplicon Sequencing To Characterize and Monitor Bacterial Diversity in Drinking Water Distribution Systems

Jennifer L. A. Shaw, Paul Monis, Laura S. Weyrich, Emma Sawade, Mary Drikas, Alan J. Cooper 6463–6473

TABLE OF CONTENTS

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors

6517

MINIREVIEW

What's Inside That Seed We Brew? A New Approach To Mining the Coffee Microbiome

Michael Joe Vaughan, Thomas Mitchell, Brian B. McSpadden Gardener

6518–6527

BIOTECHNOLOGY

Bacterial Cyanuric Acid Hydrolase for Water Treatment

Sujin Yeom, Baris R. Mutlu, Alptekin Aksan, Lawrence P. Wackett

6660–6668

Temperature-Sensitive *Salmonella enterica* Serovar Enteritidis PT13a Expressing Essential Proteins of Psychrophilic Bacteria

Barry N. Duplantis, Stephanie M. Puckett, Everett L. Rosey, Keith A. Ameiss, Angela D. Hartman, Stephanie C. Pearce, Francis E. Nano

6757–6766

A Strategy for Generating a Broad-Spectrum Monoclonal Antibody and Soluble Single-Chain Variable Fragments against Plant Potyviruses

Han-Lin Liu, Wei-Fang Lin, Wen-Chi Hu, Yung-An Lee, Ya-Chun Chang

6839–6849

ENVIRONMENTAL MICROBIOLOGY

A Complex Signaling Cascade Governs Pristinamycin Biosynthesis in *Streptomyces pristinaespiralis*

Yvonne Mast, Jamil Guezguez, Franziska Handel, Eva Schinko

6621–6636

Genetically Engineering *Bacillus subtilis* with a Heat-Resistant Arsenite Methyltransferase for Bioremediation of Arsenic-Contaminated Organic Waste

Ke Huang, Chuan Chen, Qirong Shen, Barry P. Rosen, Fang-Jie Zhao

6718–6724

Involvement of Coat Proteins in *Bacillus subtilis* Spore Germination in High-Salinity Environments

Katja Nagler, Peter Setlow, Kai Reineke, Adam Driks, Ralf Moeller

6725–6735

Roles of Thermophiles and Fungi in Bitumen Degradation in Mostly Cold Oil Sands Outcrops

Man-Ling Wong, Dongshan An, Sean M. Caffrey, Jung Soh, Xiaoli Dong, Christoph W. Sensen, Thomas B. P. Oldenburg, Steve R. Larter, Gerrit Voordouw

6825–6838

Characterization of *para*-Nitrophenol-Degrading Bacterial Communities in River Water by Using Functional Markers and Stable Isotope Probing

Agnieszka Kowalczyk, Özge Eyice, Hendrik Schäfer, Oliver R. Price, Christopher J. Finnegan, Roger A. van Egmond, Liz J. Shaw, Glyn Barrett, Gary D. Bending

6890–6900

Topographical Mapping of the Rainbow Trout (*Oncorhynchus mykiss*) Microbiome Reveals a Diverse Bacterial Community with Antifungal Properties in the Skin

Liam Lowrey, Douglas C. Woodhams, Luca Tacchi, Irene Salinas

6915–6925

ENZYMOLGY AND PROTEIN ENGINEERING

Degradation of Granular Starch by the Bacterium *Microbacterium aurum* Strain B8.A Involves a Modular α -Amylase Enzyme System with FNIII and CBM25 Domains

Vincent Valk, Wieger Eeuwema, Fean D. Sarian, Rachel M. van der Kaaij, Lubbert Dijkhuizen

6610–6620

Novel Glucose-1-Phosphatase with High Phytase Activity and Unusual Metal Ion Activation from Soil Bacterium *Pantoea* sp. Strain 3.5.1

Improvement in Thermostability of an *Achaetomium* sp. Strain Xz8 Endopolygalacturonase via the Optimization of Charge-Charge Interactions

EVOLUTIONARY AND GENOMIC MICROBIOLOGY

Three of a Kind: Genetically Similar *Tsukamurella* Phages TIN2, TIN3, and TIN4

FOOD MICROBIOLOGY

High-Pressure Inactivation of Rotaviruses: Role of Treatment Temperature and Strain Diversity in Virus Inactivation

A Gnotobiotic Pig Model for Determining Human Norovirus Inactivation by High-Pressure Processing

Lactic Acid Bacteria in Durum Wheat Flour Are Endophytic Components of the Plant during Its Entire Life Cycle

Exposure of *Salmonella enterica* Serovar Typhimurium to Three Humectants Used in the Food Industry Induces Different Osmoadaptation Systems

Transcriptomic Analysis of the Adaptation of *Listeria monocytogenes* to Growth on Vacuum-Packed Cold Smoked Salmon

GENETICS AND MOLECULAR BIOLOGY

YvoA and *CcpA* Repress the Expression of *chiB* in *Bacillus thuringiensis*

Unusual Biosynthesis and Structure of Locillomycins from *Bacillus subtilis* 916

The Pathway-Specific Regulator *ClaR* of *Streptomyces clavuligerus* Has a Global Effect on the Expression of Genes for Secondary Metabolism and Differentiation

Small RNA Transcriptome of the Oral Microbiome during Periodontitis Progression

Fine-Tuning of Photoautotrophic Protein Production by Combining Promoters and Neutral Sites in the Cyanobacterium *Synechocystis* sp. Strain PCC 6803

Aspergillus glaucus Aquaglyceroporin Gene *glpF* Confers High Osmosis Tolerance in Heterologous Organisms

Aliya D. Suleimanova, Astrid Beinhauer, Liia R. Valeeva, Inna B. Chastukhina, Nelly P. Balaban, Eugene V. Shakirov, Ralf Greiner, Margarita R. Sharipova 6790–6799

Tao Tu, Huiying Luo, Kun Meng, Yanli Cheng, Rui Ma, Pengjun Shi, Huoqing Huang, Yingguo Bai, Yaru Wang, Lujia Zhang, Bin Yao 6938–6944

Zoe A. Dyson, Joseph Tucci, Robert J. Seviour, Steve Petrovski 6767–6772

Elbashir Araud, Erin DiCaprio, Zhihong Yang, Xinhui Li, Fangfei Lou, John H. Hughes, Haiqiang Chen, Jianrong Li 6669–6678

Fangfei Lou, Mu Ye, Yuanmei Ma, Xinhui Li, Erin DiCaprio, Haiqiang Chen, Steven Krakowka, John Hughes, David Kingsley, Jianrong Li 6679–6687

Fabio Minervini, Giuseppe Celano, Anna Lattanzi, Luigi Tedone, Giuseppe De Mastro, Marco Gobetti, Maria De Angelis 6736–6748

Sarah Finn, Lisa Rogers, Kristian Händler, Peter McClure, Alejandro Amézquita, Jay C. D. Hinton, Séamus Fanning 6800–6811

Silin Tang, Renato H. Orsi, Henk C. den Bakker, Martin Wiedmann, Kathryn J. Boor, Teresa M. Bergholz 6812–6824

Kun Jiang, Li-na Li, Jin-hua Pan, Ting-ting Wang, Yue-hua Chen, Jun Cai 6548–6557

Chuping Luo, Xuehui Liu, Xian Zhou, Junyao Guo, John Truong, Xiaoyu Wang, Huafei Zhou, Xiangqian Li, Zhiyi Chen 6601–6609

Yolanda Martínez-Burgo, Rubén Álvarez-Álvarez, Antonio Rodríguez-García, Paloma Liras 6637–6648

Ana E. Duran-Pinedo, Susan Yost, Jorge Frias-Lopez 6688–6699

Andrew H. Ng, Bertram M. Berla, Himadri B. Pakrasi 6857–6863

Xiao-Dan Liu, Yi Wei, Xiao-Yang Zhou, Xue Pei, Shi-Hong Zhang 6926–6937

INVERTEBRATE MICROBIOLOGY

The Enterobacterium *Trabulsilla odontotermitis* Presents Novel Adaptations Related to Its Association with Fungus-Growing Termites

Panagiotis Sapountzis, Thijs Gruntjes, Saria Otani, James Estevez, Rafael R. da Costa, Guy Plunkett III, Nicole T. Perna, Michael Poulsen 6577–6588

METHODS

Use of 16S rRNA Gene-Targeted Group-Specific Primers for Real-Time PCR Analysis of Predominant Bacteria in Mouse Feces

Yun-Wen Yang, Mang-Kun Chen, Bing-Ya Yang, Xian-Jie Huang, Xue-Rui Zhang, Liang-Qiang He, Jing Zhang, Zi-Chun Hua 6749–6756

A Continuous Culture System for Assessing Microbial Activities in the Piezosphere

Dionysis I. Foustoukos, Ileana Pérez-Rodríguez 6850–6856

MICROBIAL ECOLOGY

Understanding the Linkage between Elevation and the Activated-Sludge Bacterial Community along a 3,600-Meter Elevation Gradient in China

Lihua Niu, Yi Li, Peifang Wang, Wenlong Zhang, Chao Wang, Qing Wang 6567–6576

Most of the Dominant Members of Amphibian Skin Bacterial Communities Can Be Readily Cultured

Jenifer B. Walke, Matthew H. Becker, Myra C. Hughey, Meredith C. Swartwout, Roderick V. Jensen, Lisa K. Belden 6589–6600

The Bacterial Communities of Full-Scale Biologically Active, Granular Activated Carbon Filters Are Stable and Diverse and Potentially Contain Novel Ammonia-Oxidizing Microorganisms

Timothy M. LaPara, Katheryn Hope Wilkinson, Jacqueline M. Strait, Raymond M. Hozalski, Michael J. Sadowsky, Matthew J. Hamilton 6864–6872

Seagrass (*Zostera marina*) Colonization Promotes the Accumulation of Diazotrophic Bacteria and Alters the Relative Abundances of Specific Bacterial Lineages Involved in Benthic Carbon and Sulfur Cycling

Feifei Sun, Xiaoli Zhang, Qianqian Zhang, Fanghua Liu, Jianping Zhang, Jun Gong 6901–6914

PHYSIOLOGY

Rerouting Cellular Electron Flux To Increase the Rate of Biological Methane Production

Jennie L. Catlett, Alicia M. Ortiz, Nicole R. Buan 6528–6537

Neutral and Phospholipids of the *Myxococcus xanthus* Lipodome during Fruiting Body Formation and Germination

Tilman Ahrendt, Hendrik Wolff, Helge B. Bode 6538–6547

The *Pseudomonas aeruginosa* Isohexenyl Glutaconyl Coenzyme A Hydratase (AtuE) Is Upregulated in Citronellate-Grown Cells and Belongs to the Crotonase Family

Nirmal Poudel, Jens Pfannstiel, Oliver Simon, Nadine Walter, Anastassios C. Papageorgiou, Dieter Jendrossek 6558–6566

AllR Controls the Expression of *Streptomyces coelicolor* Allantoin Pathway Genes

Laura Navone, Juan Pablo Macagno, Cuauhtémoc Licona-Cassani, Esteban Marcellin, Lars K. Nielsen, Hugo Gramajo, Eduardo Rodriguez 6649–6659

PLANT MICROBIOLOGY

Quantification of *Azospirillum brasilense* FP2 Bacteria in Wheat Roots by Strain-Specific Quantitative PCR

Maria Isabel Stets, Sylvia Maria Campbell Alqueres, Emanuel Maltempi Souza, Fábio de Oliveira Pedrosa, Michael Schmid, Anton Hartmann, Leonardo Magalhães Cruz 6700–6709

Identification of *Bradyrhizobium elkanii* Genes Involved in Incompatibility with Soybean Plants Carrying the *Rj4* Allele

Omar M. Faruque, Hiroki Miwa, Michiko Yasuda, Yoshiharu Fujii, Takakazu Kaneko, Shusei Sato, Shin Okazaki 6710–6717

Origin of the Outbreak in France of *Pseudomonas syringae* pv. actinidiae Biovar 3, the Causal Agent of Bacterial Canker of Kiwifruit, Revealed by a Multilocus Variable-Number Tandem-Repeat Analysis

A. Cuntz, S. Cesbron, F. Poliakov, 6773–6789
M.-A. Jacques, C. Manceau

**PUBLIC AND ENVIRONMENTAL HEALTH
MICROBIOLOGY**

Distinct SagA from Hospital-Associated Clade A1 *Enterococcus faecium* Strains Contributes to Biofilm Formation

F. L. Paganelli, M. de Been, J. C. Braat, 6873–6882
T. Hoogenboezem, C. Vink, J.
Bayjanov, M. R. C. Rogers, J. Huebner,
M. J. M. Bonten, R. J. L. Willems, H. L.
Leavis

Effects of Chicken Litter Storage Time and Ammonia Content on Thermal Resistance of Desiccation-Adapted *Salmonella* spp.

Zhao Chen, Hongye Wang, Claudia 6883–6889
Ionita, Feng Luo, Xiuping Jiang

TABLE OF CONTENTS

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors 6945

MINIREVIEW

The Role of the Microbiome of Truffles in Aroma Formation: a Meta-Analysis Approach Maryam Vahdatzadeh, Aurélie Deveau, Richard Splivallo 6946–6952

BIODEGRADATION

Identification of the Gene Cluster for the Anaerobic Degradation of 3,5-Dihydroxybenzoate (α -Resorcyate) in *Thauera aromatica* Strain AR-1 Águeda Molina-Fuentes, Daniel Pacheco, Patricia Marín, Bodo Philipp, Bernhard Schink, Silvia Marqués 7201–7214

BIOTECHNOLOGY

Comparative Analysis of Extremely Thermophilic *Caldicellulosiruptor* Species Reveals Common and Unique Cellular Strategies for Plant Biomass Utilization Jeffrey V. Zurawski, Jonathan M. Conway, Laura L. Lee, Hunter J. Simpson, Javier A. Izquierdo, Sara Blumer-Schuetz, Intawat Nookaew, Michael W. W. Adams, Robert M. Kelly 7159–7170

Alcohol Selectivity in a Synthetic Thermophilic *n*-Butanol Pathway Is Driven by Biocatalytic and Thermostability Characteristics of Constituent Enzymes Andrew J. Loder, Benjamin M. Zeldes, G. Dale Garrison II, Gina L. Lipscomb, Michael W. W. Adams, Robert M. Kelly 7187–7200

ENVIRONMENTAL MICROBIOLOGY

High Specificity of a Quantitative PCR Assay Targeting a Saxitoxin Gene for Monitoring Toxic Algae Associated with Paralytic Shellfish Toxins in the Yellow Sea Yan Gao, Ren-Cheng Yu, Shauna A. Murray, Jian-Hua Chen, Zhen-Jun Kang, Qing-Chun Zhang, Fan-Zhou Kong, Ming-Jiang Zhou 6973–6981

Biosynthesis and Secretion of Indole-3-Acetic Acid and Its Morphological Effects on *Tricholoma vaccinum*-Spruce Ectomycorrhiza Katrin Krause, Catarina Henke, Theodore Asiimwe, Andrea Ulbricht, Sandra Klemmer, Doreen Schachtschabel, Wilhelm Boland, Erika Kothe 7003–7011

Nitrogen Cycling Potential of a Grassland Litter Microbial Community Michaeline B. Nelson, Renaud Berlemont, Adam C. Martiny, Jennifer B. H. Martiny 7012–7022

Highly Virulent Non-O157 Enterohemorrhagic *Escherichia coli* (EHEC) Serotypes Reflect Similar Phylogenetic Lineages, Providing New Insights into the Evolution of EHEC Inga Eichhorn, Katrin Heidemanns, Torsten Semmler, Bianca Kinnemann, Alexander Mellmann, Dag Harmsen, Muna F. Anjum, Herbert Schmidt, Angelika Fruth, Peter Valentin-Weigand, Jürgen Heesemann, Sebastian Suerbaum, Helge Karch, Lothar H. Wieler 7041–7047

Botrytis pseudocinerea Is a Significant Pathogen of Several Crop Plants but Susceptible to Displacement by Fungicide-Resistant *B. cinerea* Strains Cecilia Plesken, Roland W. S. Weber, Sabrina Rupp, Michaela Leroch, Matthias Hahn 7048–7056

Burkholderia Diffusible Signal Factor Signals to *Francisella novicida* To Disperse Biofilm and Increase Siderophore Production Scott N. Dean, Myung-Chul Chung, Monique L. van Hoek 7057–7066

Dynamic Mechanisms of the Bactericidal Action of an Al₂O₃-TiO₂-Ag Granular Material on an *Escherichia coli* Strain

Marie-Anne Tartanson, Laurence Soussan, Matthieu Rivallin, Sophie Pecastaings, Cristian V. Chis, Diego Penaranda, Christine Roques, Catherine Faur 7135–7142

Impacts of Long-Term Irrigation of Domestic Treated Wastewater on Soil Biogeochemistry and Bacterial Community Structure

Denis Wafula, John R. White, Andy Canion, Charles Jagoe, Ashish Pathak, Ashvini Chauhan 7143–7158

Circulation of *Coxiella burnetii* in a Naturally Infected Flock of Dairy Sheep: Shedding Dynamics, Environmental Contamination, and Genotype Diversity

A. Joulié, K. Laroucau, X. Bailly, M. Prigent, P. Gasqui, E. Lepetitcolin, B. Blanchard, E. Rousset, K. Sidi-Boumedine, E. Jourdain 7253–7260

Changes in Microbial Biofilm Communities during Colonization of Sewer Systems

O. Auguet, M. Pijuan, J. Batista, C. M. Borrego, O. Gutierrez 7271–7280

phoD Alkaline Phosphatase Gene Diversity in Soil

Sabine A. Ragot, Michael A. Kertesz, Else K. Bünemann 7281–7289

ENZYMOLGY AND PROTEIN ENGINEERING

Active-Site Engineering of ω -Transaminase for Production of Unnatural Amino Acids Carrying a Side Chain Bulkier than an Ethyl Substituent

Sang-Woo Han, Eul-Soo Park, Joo-Young Dong, Jong-Shik Shin 6994–7002

Biochemical Characterization of the *Lactobacillus reuteri* Glycoside Hydrolase Family 70 GTFB Type of 4,6- α -Glucanotransferase Enzymes That Synthesize Soluble Dietary Starch Fibers

Yuxiang Bai, Rachel Maria van der Kaaij, Hans Leemhuis, Tjaard Pijning, Sander Sebastiaan van Leeuwen, Zhengyu Jin, Lubbert Dijkhuizen 7223–7232

Semirational Directed Evolution of Loop Regions in *Aspergillus japonicus* β -Fructofuranosidase for Improved Fructooligosaccharide Production

K. M. Trollope, J. F. Görgens, H. Volschenk 7319–7329

EVOLUTIONARY AND GENOMIC MICROBIOLOGY

A Genomic View of Lactobacilli and Pediococci Demonstrates that Phylogeny Matches Ecology and Physiology

Jinshui Zheng, Lifang Ruan, Ming Sun, Michael Gänzle 7233–7243

FOOD MICROBIOLOGY

Three Novel Lantibiotics, Ticins A1, A3, and A4, Have Extremely Stable Properties and Are Promising Food Biopreservatives

Bingyue Xin, Jinshui Zheng, Ziya Xu, Congzhi Li, Lifang Ruan, Donghai Peng, Ming Sun 6964–6972

Identification and Characterization of a Novel Staphylococcal Emetic Toxin

Hisaya K. Ono, Yusuke Sato'o, Kouji Narita, Ikunori Naito, Shouhei Hirose, Junzo Hisatsune, Krisana Asano, Dong-Liang Hu, Katsuhiko Omoe, Motoyuki Sugai, Akio Nakane 7034–7040

Meat Processing Plant Microbiome and Contamination Patterns of Cold-Tolerant Bacteria Causing Food Safety and Spoilage Risks in the Manufacture of Vacuum-Packaged Cooked Sausages

Jenni Hultman, Riitta Rähkila, Javeria Ali, Juho Rousu, K. Johanna Björkroth 7088–7097

GENETICS AND MOLECULAR BIOLOGY

Genome-Wide Screening Identifies Six Genes That Are Associated with Susceptibility to *Escherichia coli* Microcin PDI

Zhe Zhao, Lauren J. Eberhart, Lisa H. Orfe, Shao-Yeh Lu, Thomas E. Besser, Douglas R. Call 6953–6963

Hansenula polymorpha Hac1p Is Critical to Protein N-Glycosylation Activity Modulation, as Revealed by Functional and Transcriptomic Analyses

Hye-Yun Moon, Seon Ah Cheon, Hyunah Kim, M. O. Agaphonov, Ohsuk Kwon, Doo-Byoung Oh, Jeong-Yoon Kim, Hyun Ah Kang 6982–6993

Viral Agents Causing Brown Cap Mushroom Disease of <i>Agaricus bisporus</i>	Daniel Eastwood, Julian Green, Helen Grogan, Kerry Burton	7125–7134
INVERTEBRATE MICROBIOLOGY		
Interactions between Cooccurring Lactic Acid Bacteria in Honey Bee Hives	Z. P. Rokop, M. A. Horton, I. L. G. Newton	7261–7270
METHODS		
Scarless Genome Editing and Stable Inducible Expression Vectors for <i>Geobacter sulfurreducens</i>	Chi Ho Chan, Caleb E. Levar, Lori Zacharoff, Jonathan P. Badalamenti, Daniel R. Bond	7178–7186
Red Fluorescent Proteins for Gene Expression and Protein Localization Studies in <i>Streptococcus pneumoniae</i> and Efficient Transformation with DNA Assembled via the Gibson Assembly Method	Katrin Beilharz, Renske van Raaphorst, Morten Kjos, Jan-Willem Veening	7244–7252
MICROBIAL ECOLOGY		
Exploring Vertical Transmission of Bifidobacteria from Mother to Child	Christian Milani, Leonardo Mancabelli, Gabriele Andrea Lugli, Sabrina Duranti, Francesca Turroni, Chiara Ferrario, Marta Mangifesta, Alice Viappiani, Pamela Ferretti, Valentina Gorfer, Adrian Tett, Nicola Segata, Douwe van Sinderen, Marco Ventura	7078–7087
Quantitative Analysis of <i>Lysobacter</i> Predation	Ivana Seccareccia, Christian Kost, Markus Nett	7098–7105
Permeable Reactive Barriers Designed To Mitigate Eutrophication Alter Bacterial Community Composition and Aquifer Redox Conditions	Kenly A. Hiller, Kenneth H. Foreman, David Weisman, Jennifer L. Bowen	7114–7124
Distribution and Genetic Diversity of Bacteriocin Gene Clusters in Rumen Microbial Genomes	Analice C. Azevedo, Cláudia B. P. Bento, Jeronimo C. Ruiz, Marisa V. Queiroz, Hilário C. Mantovani	7290–7304
Differences in Bacterial Community Structure in Two Color Morphs of the Hawaiian Reef Coral <i>Montipora capitata</i>	Amanda Shore-Maggio, Christina M. Runyon, Blake Ushijima, Greta S. Aeby, Sean M. Callahan	7312–7318
PHYSIOLOGY		
A New Class of Tungsten-Containing Oxidoreductase in <i>Caldicellulosiruptor</i> , a Genus of Plant Biomass-Degrading Thermophilic Bacteria	Israel M. Scott, Gabe M. Rubinstein, Gina L. Lipscomb, Mirko Basen, Gerrit J. Schut, Amanda M. Rhaesa, W. Andrew Lancaster, Farris L. Poole II, Robert M. Kelly, Michael W. W. Adams	7339–7347
PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY		
Comparison of Sewage and Animal Fecal Microbiomes by Using Oligotyping Reveals Potential Human Fecal Indicators in Multiple Taxonomic Groups	Jenny C. Fisher, A. Murat Eren, Hyatt C. Green, Orin C. Shanks, Hilary G. Morrison, Joseph H. Vineis, Mitchell L. Sogin, Sandra L. McLellan	7023–7033
Toolbox Approaches Using Molecular Markers and 16S rRNA Gene Amplicon Data Sets for Identification of Fecal Pollution in Surface Water	W. Ahmed, C. Staley, M. J. Sadowsky, P. Gyawali, J. P. S. Sidhu, A. Palmer, D. J. Beale, S. Toze	7067–7077

- Geographical and Temporal Structures of *Legionella pneumophila* Sequence Types in Comunitat Valenciana (Spain), 1998 to 2013**
- The Hybrid Pre-CTX Φ -RS1 Prophage Genome and Its Regulatory Function in Environmental *Vibrio cholerae* O1 Strains**
- Deciphering the Diversities of Astroviruses and Noroviruses in Wastewater Treatment Plant Effluents by a High-Throughput Sequencing Method**
- Resistance of Aerosolized Bacterial Viruses to Relative Humidity and Temperature**
- Effects of Formulation on Microbicide Potency and Mitigation of the Development of Bacterial Insusceptibility**
- ERRATUM**
- Erratum for Drouaz et al., Tulane Virus as a Potential Surrogate To Mimic Norovirus Behavior in Oysters**
- Leonor Sánchez-Busó, Mireia Coscollà, Ferran Palero, María Luisa Camaró, Ana Gimeno, Pilar Moreno, Isabel Escribano, María Mar López Perezagua, Javier Colomina, Herme Vanaclocha, Fernando González-Candelas 7106–7113
- Hongxia Wang, Bo Pang, Lifeng Xiong, Duochun Wang, Xiaomei Wang, Lijuan Zhang, Biao Kan 7171–7177
- B. Prevost, F. S. Lucas, K. Ambert-Balay, P. Pothier, L. Moulin, S. Wurtzer 7215–7222
- Daniel Verreault, Mélissa Marcoux-Voiselle, Nathalie Turgeon, Sylvain Moineau, Caroline Duchaine 7305–7311
- Nicola L. Cowley, Sarah Forbes, Alejandro Amézquita, Peter McClure, Gavin J. Humphreys, Andrew J. McBain 7330–7338
- Najoua Drouaz, Julien Schaeffer, Tibor Farkas, Jacques Le Pendu, Françoise S. Le Guyader 7348

TABLE OF CONTENTS

SPOTLIGHT

- Articles of Significant Interest Selected from This Issue by the Editors 7349

MINIREVIEW

- Evolutionary Aspects of Emerging Lyme Disease in Canada N. H. Ogden, E. J. Feil, P. A. Leighton, L. R. Lindsay, G. Margos, S. Mechai, P. Michel, T. J. Moriarty 7350–7359

BIODEGRADATION

- Efficient Production of Lumichrome by *Microbacterium* sp. Strain TPU 3598 Kazunori Yamamoto, Yasuhisa Asano 7360–7367
- Novel LinA Type 3 δ -Hexachlorocyclohexane Dehydrochlorinase Nidhi Shrivastava, Zbynek Prokop, Ashwani Kumar 7553–7559

BIOTECHNOLOGY

- Gene Deletion Strategy To Examine the Involvement of the Two Chondroitin Lyases in *Flavobacterium columnare* Virulence Nan Li, Ting Qin, Xiao Lin Zhang, Bei Huang, Zhi Xin Liu, Hai Xia Xie, Jin Zhang, Mark J. McBride, Pin Nie 7394–7402
- Unique Plasmids Generated via pUC Replicon Mutagenesis in an Error-Prone Thermophile Derived from *Geobacillus kaustophilus* HTA426 Jyumpei Kobayashi, Misaki Tanabiki, Shohei Doi, Akihiko Kondo, Takashi Ohshiro, Hirokazu Suzuki 7625–7632

ENVIRONMENTAL MICROBIOLOGY

- Identification of Benzo[a]pyrene-Metabolizing Bacteria in Forest Soils by Using DNA-Based Stable-Isotope Probing Mengke Song, Chunling Luo, Longfei Jiang, Dayi Zhang, Yujie Wang, Gan Zhang 7368–7376
- Spatial Patterns of Carbonate Biomineralization in Biofilms Xiaobao Li, David L. Chopp, William A. Russin, Paul T. Brannon, Matthew R. Parsek, Aaron I. Packman 7403–7410
- The Gastrointestinal Tract as a Potential Infection Reservoir of Digital Dermatitis-Associated Treponemes in Beef Cattle and Sheep L. E. Sullivan, S. D. Carter, J. S. Duncan, D. H. Grove-White, J. W. Angell, N. J. Evans 7460–7469
- Cerium Regulates Expression of Alternative Methanol Dehydrogenases in *Methylosinus trichosporium* OB3b Muhammad Farhan Ul Haque, Bhagyalakshmi Kalidass, Nathan Bandow, Erick A. Turpin, Alan A. DiSpirito, Jeremy D. Semrau 7546–7552
- Light-Dependent Sulfide Oxidation in the Anoxic Zone of the Chesapeake Bay Can Be Explained by Small Populations of Phototrophic Bacteria Alyssa J. Findlay, Alexa J. Bennett, Thomas E. Hanson, George W. Luther III 7560–7569
- The Ocean as a Global Reservoir of Antibiotic Resistance Genes Stephen M. Hatosy, Adam C. Martiny 7593–7599
- Molecular Epidemiology of Oyster-Related Human Noroviruses and Their Global Genetic Diversity and Temporal-Geographical Distribution from 1983 to 2014 Yongxin Yu, Hui Cai, Linghao Hu, Rongwei Lei, Yingjie Pan, Shuling Yan, Yongjie Wang 7615–7624
- Comparison of the Seasonal Variations of *Synechococcus* Assemblage Structures in Estuarine Waters and Coastal Waters of Hong Kong Xiaomin Xia, Nayani K. Vidyarthana, Brian Palenik, Puiyin Lee, Hongbin Liu 7644–7655

EVOLUTIONARY AND GENOMIC MICROBIOLOGY

Experimental Evolution of Enhanced Growth by *Bacillus subtilis* at Low Atmospheric Pressure: Genomic Changes Revealed by Whole-Genome Sequencing

Samantha M. Waters, Daniel R. Zeigler, Wayne L. Nicholson 7525–7532

METHODS

Fluorescence Assay for Evaluating Microbicidal Activity of Hand Antiseptics

Rosa M. Lopez-Gigosos, Alberto Mariscal, Eloisa Mariscal-Lopez, Mario Gutierrez-Bedmar, Joaquin Fernandez 7443–7447

Buccal Swabbing as a Noninvasive Method To Determine Bacterial, Archaeal, and Eukaryotic Microbial Community Structures in the Rumen

Sandra Kittelmann, Michelle R. Kirk, Arjan Jonker, Alan McCulloch, Peter H. Janssen 7470–7483

MICROBIAL ECOLOGY

A Model of Extracellular Enzymes in Free-Living Microbes: Which Strategy Pays Off?

Sachia J. Traving, Uffe H. Thygesen, Lasse Riemann, Colin A. Stedmon 7385–7393

pH Tolerance in Freshwater Bacterioplankton: Trait Variation of the Community as Measured by Leucine Incorporation

Erland Bååth, Emma Kritzberg 7411–7419

Distribution, Activities, and Interactions of Methanogens and Sulfate-Reducing Prokaryotes in the Florida Everglades

Hee-Sung Bae, M. Elizabeth Holmes, Jeffrey P. Chanton, K. Ramesh Reddy, Andrew Ogram 7431–7442

Climate Change and Physical Disturbance Manipulations Result in Distinct Biological Soil Crust Communities

Blaire Steven, Cheryl R. Kuske, La Verne Gallegos-Graves, Sasha C. Reed, Jayne Belnap 7448–7459

Pseudomonas aeruginosa and *Achromobacter* sp. Clonal Selection Leads to Successive Waves of Contamination of Water in Dental Care Units

Fatima Abdouchakour, Chloé Dupont, Delphine Grau, Fabien Aujoulat, Patricia Mournetas, Hélène Marchandin, Sylvie Parer, Philippe Gibert, Jean Valcarcel, Estelle Jumas-Bilak 7509–7524

Quantitative Microbial Ecology through Stable Isotope Probing

Bruce A. Hungate, Rebecca L. Mau, Egbert Schwartz, J. Gregory Caporaso, Paul Dijkstra, Natasja van Gestel, Benjamin J. Koch, Cindy M. Liu, Theresa A. McHugh, Jane C. Marks, Ember M. Morrissey, Lance B. Price 7570–7581

Mucosa-Associated *Faecalibacterium prausnitzii* Phylotype Richness Is Reduced in Patients with Inflammatory Bowel Disease

Mireia Lopez-Siles, Margarita Martinez-Medina, Carles Abellà, David Busquets, Miriam Sabat-Mir, Sylvia H. Duncan, Xavier Aldeguer, Harry J. Flint, L. Jesús Garcia-Gil 7582–7592

Rapid Proliferation of *Vibrio parahaemolyticus*, *Vibrio vulnificus*, and *Vibrio cholerae* during Freshwater Flash Floods in French Mediterranean Coastal Lagoons

Kevin Esteves, Dominique Hervio-Heath, Thomas Mosser, Claire Rodier, Marie-George Tournoud, Estelle Jumas-Bilak, Rita R. Colwell, Patrick Monfort 7600–7609

PHYSIOLOGY

Anaerobic Growth of *Corynebacterium glutamicum* via Mixed-Acid Fermentation

Andrea Michel, Abigail Koch-Koerfges, Karin Krumbach, Melanie Brocker, Michael Bott 7496–7508

γ -Resorcylate Catabolic-Pathway Genes in the Soil Actinomycete *Rhodococcus jostii* RHA1

Daisuke Kasai, Naoto Araki, Kota Motoi, Shota Yoshikawa, Toju Iino, Shunsuke Imai, Eiji Masai, Masao Fukuda 7656–7665

PLANT MICROBIOLOGY

Identification of the *mcpA* and *mcpM* Genes, Encoding Methyl-Accepting Proteins Involved in Amino Acid and L-Malate Chemotaxis, and Involvement of *McpM*-Mediated Chemotaxis in Plant Infection by *Ralstonia pseudosolanacearum* (Formerly *Ralstonia solanacearum* Phylotypes I and III)

Akiko Hida, Shota Oku, Takeru Kawasaki, Yutaka Nakashimada, Takahisa Tajima, Junichi Kato 7420–7430

Hypothetical Protein Avin_16040 as the S-Layer Protein of *Azotobacter vinelandii* and Its Involvement in Plant Root Surface Attachment

Pauline Woan Ying Liew, Bor Chyan Jong, Nazalan Najimudin 7484–7495

FleQ Coordinates Flagellum-Dependent and -Independent Motilities in *Pseudomonas syringae* pv. tomato DC3000

Joaquina Nogales, Paola Vargas, Gabriela A. Farias, Adela Olmedilla, Juan Sanjuán, María-Trinidad Gallegos 7533–7545

PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY

Prophage Lysin Ply30 Protects Mice from *Streptococcus suis* and *Streptococcus equi* subsp. *zooepidemicus* Infections

Fang Tang, Dezhi Li, Haojin Wang, Zhe Ma, Chengping Lu, Jianjun Dai 7377–7384

Inactivation of Foot-and-Mouth Disease Virus by Citric Acid and Sodium Carbonate with Deicers

Jang-Kwan Hong, Kwang-Nyeong Lee, Su-Hwa You, Su-Mi Kim, Dongseob Tark, Hyang-Sim Lee, Young-Joon Ko, Min-Goo Seo, Jong-Hyeon Park, Byoungghan Kim 7610–7614

Eradication of Methicillin-Resistant *Staphylococcus aureus* and of *Enterobacteriaceae* Expressing Extended-Spectrum Beta-Lactamases on a Model Pig Farm

Ricarda María Schmithausen, Sophia Ricarda Kellner, Sophia Veronika Schulze-Geisthoevel, Sylvia Hack, Steffen Engelhart, Isabel Bodenstein, Nahed Al-Sabti, Marion Reif, Rolf Fimmers, Barbara Körber-Irrgang, Jürgen Harlizius, Achim Hoerauf, Martin Exner, Gabriele Bierbaum, Brigitte Petersen, Isabelle Bekeredjian-Ding 7633–7643

TABLE OF CONTENTS

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors

7667

BIODEGRADATION

Regulation of Gene Expression during the Onset of Lignolytic Oxidation by *Phanerochaete chrysosporium* on Spruce Wood

Premasagar Korripally, Christopher G. Hunt, Carl J. Houtman, Don C. Jones, Peter J. Kitin, Dan Cullen, Kenneth E. Hammel

7802–7812

BIOTECHNOLOGY

Cyclic AMP (cAMP) Receptor Protein-cAMP Complex Regulates Heparosan Production in *Escherichia coli* Strain Nissle 1917

Huihui Yan, Feifei Bao, Liping Zhao, Yanying Yu, Jiaqin Tang, Xianxuan Zhou

7687–7696

Development of a Novel Plasmid-Free Thymidine Producer by Reprogramming Nucleotide Metabolic Pathways

Jin-Sook Kim, Min-Kyung Jeong, Bong-Seong Koo, Hyeon-Cheol Lee

7708–7719

The Cytosolic pH of Individual *Saccharomyces cerevisiae* Cells Is a Key Factor in Acetic Acid Tolerance

Miguel Fernández-Niño, Maribel Marquina, Steve Swinnen, Boris Rodríguez-Porrata, Elke Nevoigt, Joaquín Ariño

7813–7821

High-Level Heterologous Production of D-Cycloserine by *Escherichia coli*

Takanori Kumagai, Tomoki Ozawa, Momoko Tanimoto, Masafumi Noda, Yasuyuki Matoba, Masanori Sugiyama

7881–7887

ENVIRONMENTAL MICROBIOLOGY

Housefly Larva Vermicomposting Efficiently Attenuates Antibiotic Resistance Genes in Swine Manure, with Concomitant Bacterial Population Changes

Hang Wang, Hongyi Li, Jack A. Gilbert, Haibo Li, Longhua Wu, Meng Liu, Liling Wang, Qiansheng Zhou, Junxiang Yuan, Zhijian Zhang

7668–7679

Rhodococcus erythropolis BG43 Genes Mediating *Pseudomonas aeruginosa* Quinolone Signal Degradation and Virulence Factor Attenuation

Christine Müller, Franziska S. Birmes, Christian Rückert, Jörn Kalinowski, Susanne Fetzner

7720–7729

Strains of the Harmful Cyanobacterium *Microcystis aeruginosa* Differ in Gene Expression and Activity of Inorganic Carbon Uptake Systems at Elevated CO₂ Levels

Giovanni Sandrini, Dennis Jakupovic, Hans C. P. Matthijs, Jef Huisman

7730–7739

Mercury Reduction and Methyl Mercury Degradation by the Soil Bacterium *Xanthobacter autotrophicus* Py2

Amanda K. Petrus, Colin Rutner, Songnian Liu, Yingjiao Wang, Heather A. Wiatrowski

7833–7838

Nanoarchaeota, Their *Sulfolobales* Host, and *Nanoarchaeota* Virus Distribution across Yellowstone National Park Hot Springs

Jacob H. Munson-McGee, Erin K. Field, Mary Bateson, Colleen Rooney, Ramunas Stepanauskas, Mark J. Young

7860–7868

Fungal Community Shifts in Structure and Function across a Boreal Forest Fire Chronosequence

Hui Sun, Minna Santalahti, Jukka Pumpanen, Kajar Köster, Frank Berninger, Tommaso Raffaello, Ari Jumpponen, Fred O. Asiegbu, Jussi Heinonsalo

7869–7880

FOOD MICROBIOLOGY

- Stability of Secondary and Tertiary Structures of Virus-Like Particles Representing Noroviruses: Effects of pH, Ionic Strength, and Temperature and Implications for Adhesion to Surfaces
Idrissa Samandougou, Riadh Hammami, Rocio Morales Rayas, Ismail Fliss, Julie Jean 7680–7686
- Mutual Cross-Feeding Interactions between *Bifidobacterium longum* subsp. *longum* NCC2705 and *Eubacterium rectale* ATCC 33656 Explain the Bifidogenic and Butyrogenic Effects of Arabinoxylan Oligosaccharides
Audrey Rivière, Mérielie Gagnon, Stefan Weckx, Denis Roy, Luc De Vuyst 7767–7781
- Positive Regulation of Staphylococcal Enterotoxin H by Rot (Repressor of Toxin) Protein and Its Importance in Clonal Complex 81 Subtype 1 Lineage-Related Food Poisoning
Yusuke Sato'o, Junzo Hisatsune, Yuria Nagasako, Hisaya K. Ono, Katsuhiko Omoe, Motoyuki Sugai 7782–7790
- Bacillus thermoamylovorans* Spores with Very-High-Level Heat Resistance Germinate Poorly in Rich Medium despite the Presence of *ger* Clusters but Efficiently upon Exposure to Calcium-Dipicolinic Acid
Erwin M. Berendsen, Antonina O. Krawczyk, Verena Klaus, Anne de Jong, Jos Boekhorst, Robyn T. Eijlander, Oscar P. Kuipers, Marjon H. J. Wells-Bennik 7791–7801
- Coexistence of Lactic Acid Bacteria and Potential Spoilage Microbiota in a Dairy Processing Environment
Giuseppina Stellato, Francesca De Filippis, Antonietta La Stora, Danilo Ercolini 7893–7904
- Effect of Whole-Grain Barley on the Human Fecal Microbiota and Metabolome
Maria De Angelis, Eustacchio Montemurno, Lucia Vannini, Carmela Cosola, Noemi Cavallo, Giorgia Gozzi, Valentina Maranzano, Raffaella Di Cagno, Marco Gobbetti, Loreto Gesualdo 7945–7956

GENETICS AND MOLECULAR BIOLOGY

- Metabolism of Fructooligosaccharides in *Lactobacillus plantarum* ST-III via Differential Gene Transcription and Alteration of Cell Membrane Fluidity
Chen Chen, Guozhong Zhao, Wei Chen, Benheng Guo 7697–7707
- Impact of Environmental Factors on Bacteriocin Promoter Activity in Gut-Derived *Lactobacillus salivarius*
Caitriona M. Guinane, Clare Piper, Lorraine A. Draper, Paula M. O'Connor, Colin Hill, R. Paul Ross, Paul D. Cotter 7851–7859
- Control of Gene Expression in *Leptospira* spp. by Transcription Activator-Like Effectors Demonstrates a Potential Role for LigA and LigB in *Leptospira interrogans* Virulence
Christopher J. Pappas, Mathieu Picardeau 7888–7892
- Autoinduction Specificities of the Lantibiotics Subtilin and Nisin
Tobias Spieß, Sophie Marianne Korn, Peter Kötter, Karl-Dieter Entian 7914–7923

GEOMICROBIOLOGY

- A Ferrous Iron Exporter Mediates Iron Resistance in *Shewanella oneidensis* MR-1
Brittany D. Bennett, Evan D. Brutinel, Jeffrey A. Gralnick 7938–7944

INVERTEBRATE MICROBIOLOGY

- Cross-Immunity and Community Structure of a Multiple-Strain Pathogen in the Tick Vector
Jonas Durand, Maxime Jacquet, Lye Paillard, Olivier Rais, Lise Gern, Maarten J. Voordouw 7740–7752

MICROBIAL ECOLOGY

- Geogenic Factors as Drivers of Microbial Community Diversity in Soils Overlying Polymetallic Deposits
Frank Reith, Carla M. Zammit, Rebecca Pohrib, Adrienne L. Gregg, Steven A. Wakelin 7822–7832

**Patterns of Endemism and Habitat Selection in Coalbed
Microbial Communities**

Christopher E. Lawson, Cameron R. Strachan, Dominique D. Williams, Susan Koziel, Steven J. Hallam, Karen Budwill 7924–7937

PHYSIOLOGY

**YjeH Is a Novel Exporter of L-Methionine and Branched-Chain
Amino Acids in *Escherichia coli***

Qian Liu, Yong Liang, Yun Zhang, Xiuling Shang, Shuwen Liu, Jifu Wen, Tingyi Wen 7753–7766

**Single-Domain Peptidyl-Prolyl *cis/trans* Isomerase FkpA from
Corynebacterium glutamicum Improves the Biomass Yield at
Increased Growth Temperatures**

Nicolai Kallscheuer, Michael Bott, Jan van Ooyen, Tino Polen 7839–7850

**PUBLIC AND ENVIRONMENTAL HEALTH
MICROBIOLOGY**

**Abundance of Antibiotic Resistance Genes in Bacteriophage
following Soil Fertilization with Dairy Manure or Municipal
Biosolids, and Evidence for Potential Transduction**

Joseph Ross, Edward Topp 7905–7913

RETRACTION

**Retraction for Anderson et al., Recombinant *Bacillus subtilis*
That Grows on Untreated Plant Biomass**

Timothy D. Anderson, J. Izaak Miller, Henri-Pierre Fierobe, Robert T. Clubb 7957

TABLE OF CONTENTS

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors 7959

BIODEGRADATION

Membrane-Associated Glucose-Methanol-Choline Oxidoreductase Family Enzymes PhcC and PhcD Are Essential for Enantioselective Catabolism of Dehydrodiconiferyl Alcohol Kenji Takahashi, Yusaku Hirose, Naofumi Kamimura, Shojiro Hishiyama, Hirofumi Hara, Takuma Araki, Daisuke Kasai, Shinya Kajita, Yoshihiro Katayama, Masao Fukuda, Eiji Masai 8022–8036

PbaR, an IclR Family Transcriptional Activator for the Regulation of the 3-Phenoxybenzoate 1',2'-Dioxygenase Gene Cluster in *Sphingobium wenxiniae* JZ-1^T Minggen Cheng, Kai Chen, Suhui Guo, Xing Huang, Jian He, Shunpeng Li, Jiandong Jiang 8084–8092

Phylogenetic and Kinetic Characterization of a Suite of Dehydrogenases from a Newly Isolated Bacterium, Strain SG61-1L, That Catalyze the Turnover of Guaiacylglycerol- β -Guaiacyl Ether Stereoisomers Shannu Palamuru, Nikki Dellas, Stephen L. Pearce, Andrew C. Warden, John G. Oakeshott, Gunjan Pandey 8164–8176

BIOTECHNOLOGY

Metabolic Engineering of a Novel Muconic Acid Biosynthesis Pathway via 4-Hydroxybenzoic Acid in *Escherichia coli* Sudeshna Sengupta, Sudhakar Jonnalagadda, Lakshani Goonewardena, Veeresh Juturu 8037–8043

Assessment of the Toxicity of CuO Nanoparticles by Using *Saccharomyces cerevisiae* Mutants with Multiple Genes Deleted Shaopan Bao, Qicong Lu, Tao Fang, Heping Dai, Chao Zhang 8098–8107

Increasing Anaerobic Acetate Consumption and Ethanol Yields in *Saccharomyces cerevisiae* with NADPH-Specific Alcohol Dehydrogenase Brooks M. Henningsen, Shuen Hon, Sean F. Covalla, Carolina Sonu, D. Aaron Argyros, Trisha F. Barrett, Erin Wiswall, Allan C. Froehlich, Rintze M. Zelle 8108–8117

ENZYMOLGY AND PROTEIN ENGINEERING

Contribution of the Distal Pocket Residue to the Acyl-Chain-Length Specificity of (R)-Specific Enoyl-Coenzyme A Hydratases from *Pseudomonas* spp. Takeharu Tsuge, Shun Sato, Ayaka Hiroe, Koya Ishizuka, Hiromi Kanazawa, Yoshitsugu Shiro, Tamao Hisano 8076–8083

FOOD MICROBIOLOGY

A Single Mutation in the Gene Responsible for the Mucooid Phenotype of *Bifidobacterium animalis* subsp. *lactis* Confers Surface and Functional Characteristics Claudio Hidalgo-Cantabrana, Borja Sánchez, Pablo Álvarez-Martín, Patricia López, Noelia Martínez-Álvarez, Michele Delley, Marc Martí, Encarna Varela, Ana Suárez, María Antolín, Francisco Guarnier, Bernard Berger, Patricia Ruas-Madiedo, Abelardo Margolles 7960–7968

Meta-analysis of the Effects of Sanitizing Treatments on *Salmonella*, *Escherichia coli* O157:H7, and *Listeria monocytogenes* Inactivation in Fresh Produce Leonardo Prado-Silva, Vasco Cadavez, Ursula Gonzales-Barron, Ana Carolina B. Rezende, Anderson S. Sant'Ana 8008–8021

- Helicobacter pullorum* Isolated from Fresh Chicken Meat: Antibiotic Resistance and Genomic Traits of an Emerging Foodborne Pathogen
- A Large Set of Newly Created Interspecific *Saccharomyces* Hybrids Increases Aromatic Diversity in Lager Beers
- ## GENETICS AND MOLECULAR BIOLOGY
- Expansion of the Tetracycline-Dependent Regulation Toolbox for *Helicobacter pylori*
- Global Transcriptome and Mutagenic Analyses of the Acid Tolerance Response of *Salmonella enterica* Serovar Typhimurium
- Transcriptomic Analysis of Shiga-Toxigenic Bacteriophage Carriage Reveals a Profound Regulatory Effect on Acid Resistance in *Escherichia coli*
- Poultry Body Temperature Contributes to Invasion Control through Reduced Expression of *Salmonella* Pathogenicity Island 1 Genes in *Salmonella enterica* Serovars Typhimurium and Enteritidis
- ## GEOMICROBIOLOGY
- Microbial Iron Oxidation in the Arctic Tundra and Its Implications for Biogeochemical Cycling
- ## INVERTEBRATE MICROBIOLOGY
- Infection of *Tribolium castaneum* with *Bacillus thuringiensis*: Quantification of Bacterial Replication within Cadavers, Transmission via Cannibalism, and Inhibition of Spore Germination
- O Antigen Modulates Insect Vector Acquisition of the Bacterial Plant Pathogen *Xylella fastidiosa*
- The High Prevalence and Diversity of *Chlamydiales* DNA within *Ixodes ricinus* Ticks Suggest a Role for Ticks as Reservoirs and Vectors of *Chlamydia*-Related Bacteria
- Wolbachia*-Mediated Antiviral Protection in *Drosophila* Larvae and Adults following Oral Infection
- ## METHODS
- A Rapid and Specific Method for the Detection of Indole in Complex Biological Samples
- Application of Metagenomic Sequencing to Food Safety: Detection of Shiga Toxin-Producing *Escherichia coli* on Fresh Bagged Spinach
- Vitor Borges, Andrea Santos, Cristina Belo Correia, Margarida Saraiva, Armelle Ménard, Luis Vieira, Daniel A. Sampaio, Miguel Pinheiro, João Paulo Gomes, Mónica Oleastro 8155–8163
- Stijn Mertens, Jan Steensels, Veerle Saels, Gert De Rouck, Guido Aerts, Kevin J. Verstrepen 8202–8214
- Aleksandra W. Debowski, Miriam Sehna, Tingting Liao, Keith A. Stubbs, Barry J. Marshall, Mohammed Benghezal 7969–7980
- Daniel Ryan, Niladri Bhusan Pati, Urmesh K. Ojha, Chandrashekhar Padhi, Shilpa Ray, Sangeeta Jaiswal, Gajinder P. Singh, Gopala K. Mannala, Tilman Schultze, Trinad Chakraborty, Mrutyunjay Suar 8054–8065
- Marta Veses-Garcia, Xuan Liu, Daniel J. Rigden, John G. Kenny, Alan J. McCarthy, Heather E. Allison 8118–8125
- Bryan Troxell, Nicholas Petri, Caitlyn Daron, Rafaela Pereira, Mary Mendoza, Hosni M. Hassan, Matthew D. Koci 8192–8201
- David Emerson, Jarrod J. Scott, Joshua Benes, William B. Bowden 8066–8075
- Barbara Milutinović, Christina Höfling, Momir Futo, Jörn P. Scharsack, Joachim Kurtz 8135–8144
- Jeannette N. Rapicavoli, Nichola Kinsinger, Thomas M. Perring, Elaine A. Backus, Holly J. Shugart, Sharon Walker, M. Caroline Roper 8145–8154
- Ludovic Pilloux, Sébastien Aeby, Rahel Gäumann, Caroline Burri, Christian Beuret, Gilbert Greub 8177–8182
- Aleksej L. Stevanovic, Pieter A. Arnold, Karyn N. Johnson 8215–8223
- Charles Darkoh, Cynthia Chappell, Christopher Gonzales, Pablo Okhuysen 8093–8097
- Susan R. Leonard, Mark K. Mammel, David W. Lacher, Christopher A. Elkins 8183–8191

MICROBIAL ECOLOGY

Sample Dilution and Bacterial Community Composition Influence Empirical Leucine-to-Carbon Conversion Factors in Surface Waters of the World's Oceans

Eva Teira, Víctor Hernando-Morales, Francisco M. Cornejo-Castillo, Laura Alonso-Sáez, Hugo Sarmento, Joaquín Valencia-Vila, Teresa Serrano Catalá, Marta Hernández-Ruiz, Marta M. Varela, Isabel Ferrera, Xosé Anxelu Gutiérrez Morán, Josep M. Gasol 8224–8232

PHYSIOLOGY

Iron Response Regulator Protein IrrB in *Magnetospirillum gryphiswaldense* MSR-1 Helps Control the Iron/Oxygen Balance, Oxidative Stress Tolerance, and Magnetosome Formation

Qing Wang, Meiwen Wang, Xu Wang, Guohua Guan, Ying Li, Youliang Peng, Jilun Li 8044–8053

PLANT MICROBIOLOGY

Genome-Wide RNA Sequencing Analysis of Quorum Sensing-Controlled Regulons in the Plant-Associated *Burkholderia glumae* PG1 Strain

Rong Gao, Dagmar Krysciak, Katrin Petersen, Christian Utpatel, Andreas Knapp, Christel Schmeisser, Rolf Daniel, Sonja Voget, Karl-Erich Jaeger, Wolfgang R. Streit 7993–8007

Plant Pathogen-Induced Water-Soaking Promotes *Salmonella enterica* Growth on Tomato Leaves

Neha Potnis, James Colee, Jeffrey B. Jones, Jeri D. Barak 8126–8134

PUBLIC AND ENVIRONMENTAL HEALTH MICROBIOLOGY

High Prevalence and Genetic Heterogeneity of Rodent-Borne *Bartonella* Species on Heixiazi Island, China

Dong-Mei Li, Yong Hou, Xiu-Ping Song, Ying-Qun Fu, Gui-Chang Li, Ming Li, Marina E. Eremeeva, Hai-Xia Wu, Bo Pang, Yu-Juan Yue, Ying Huang, Liang Lu, Jun Wang, Qi-Yong Liu 7981–7992

TABLE OF CONTENTS

EDITORIAL

Acknowledgment of Reviewers

Harold L. Drake 8233–8241

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors

8242

BIODEGRADATION

Metabolic Pathway Involved in 2-Methyl-6-Ethylaniline Degradation by *Sphingobium* sp. Strain MEA3-1 and Cloning of the Novel Flavin-Dependent Monooxygenase System *meaBA*

Weiliang Dong, Qiongzhen Chen, Ying Hou, Shuhuan Li, Kai Zhuang, Fei Huang, Jie Zhou, Zhoukun Li, Jue Wang, Lei Fu, Zhengguang Zhang, Yan Huang, Fei Wang, Zhongli Cui 8254–8264

BIOTECHNOLOGY

Improvement of Glucose Uptake Rate and Production of Target Chemicals by Overexpressing Hexose Transporters and Transcriptional Activator *Gcr1* in *Saccharomyces cerevisiae*

Daehee Kim, Ji-Yoon Song, Ji-Sook Hahn 8392–8401

Multiplexed Integrating Plasmids for Engineering of the Erythromycin Gene Cluster for Expression in *Streptomyces* spp. and Combinatorial Biosynthesis

Bahgat Fayed, David A. Ashford, Amal M. Hashem, Magdy A. Amin, Omaira N. El Gazayerly, Matthew A. Gregory, Margaret C. M. Smith 8402–8413

ENVIRONMENTAL MICROBIOLOGY

Biodegradation of the Organic Disulfide 4,4'-Dithiodibutyric Acid by *Rhodococcus* spp.

Heba Khairy, Jan Hendrik Wübbeler, Alexander Steinbüchel 8294–8306

Molybdenum-Containing Nicotine Hydroxylase Genes in a Nicotine Degradation Pathway That Is a Variant of the Pyridine and Pyrrolidine Pathways

Hao Yu, Hongzhi Tang, Yangyang Li, Ping Xu 8330–8338

Involutin Is an Fe³⁺ Reductant Secreted by the Ectomycorrhizal Fungus *Paxillus involutus* during Fenton-Based Decomposition of Organic Matter

Firoz Shah, Daniel Schwenk, César Nicolás, Per Persson, Dirk Hoffmeister, Anders Tunlid 8427–8433

Landscape Position Influences Microbial Composition and Function via Redistribution of Soil Water across a Watershed

Zhe Du, Diego A. Riveros-Iregui, Ryan T. Jones, Timothy R. McDermott, John E. Dore, Brian L. McGlynn, Ryan E. Emanuel, Xu Li 8457–8468

ENZYMOLGY AND PROTEIN ENGINEERING

Protein Engineering of a Nitrilase from *Burkholderia cenocepacia* J2315 for Efficient and Enantioselective Production of (R)-o-Chloromandelic Acid

Hualei Wang, Wenyuan Gao, Huihui Sun, Lifeng Chen, Lujia Zhang, Xuedong Wang, Dongzhi Wei 8469–8477

EVOLUTIONARY AND GENOMIC MICROBIOLOGY

Single Cells within the Puerto Rico Trench Suggest Hadal Adaptation of Microbial Lineages

Rosa León-Zayas, Mark Novotny, Sheila Podell, Charles M. Shepard, Eric Berkenpas, Sergey Nikolenko, Pavel Pevzner, Roger S. Lasken, Douglas H. Bartlett 8265–8276

Bioinformatic Characterization of Glycyl Radical Enzyme-Associated Bacterial Microcompartments

Jan Zarzycki, Onur Erbilgin, Cheryl A. Kerfeld 8315–8329

A Virulent Phage Infecting *Lactococcus garvieae*, with Homology to *Lactococcus lactis* Phages

Giovanni Eraclio, Denise M. Tremblay, Alexia Lacelle-Côté, Simon J. Labrie, Maria Grazia Fortina, Sylvain Moineau 8358–8365

Facultative Control of Matrix Production Optimizes Competitive Fitness in *Pseudomonas aeruginosa* PA14 Biofilm Models

Jonas S. Madsen, Yu-Cheng Lin, Georgia R. Squyres, Alexa Price-Whelan, Ana de Santiago Torio, Angela Song, William C. Cornell, Søren J. Sørensen, Joao B. Xavier, Lars E. P. Dietrich 8414–8426

Interactions between Closely Related Bacterial Strains Are Revealed by Deep Transcriptome Sequencing

Pedro González-Torres, Leszek P. Prysycz, Fernando Santos, Manuel Martínez-García, Toni Gabaldón, Josefa Antón 8445–8456

FOOD MICROBIOLOGY

Prevalence and Distribution of *Listeria monocytogenes inlA* Alleles Prone to Phase Variation and *inlA* Alleles with Premature Stop Codon Mutations among Human, Food, Animal, and Environmental Isolates

Clyde S. Manuel, Anna Van Stelten, Martin Wiedmann, Kendra K. Nightingale, Renato H. Orsi 8339–8345

GEOMICROBIOLOGY

Microbiological Oxidation of Antimony(III) with Oxygen or Nitrate by Bacteria Isolated from Contaminated Mine Sediments

Lee R. Terry, Thomas R. Kulp, Heather Wiatrowski, Laurence G. Miller, Ronald S. Oremland 8478–8488

METHODS

Premethylation of Foreign DNA Improves Integrative Transformation Efficiency in *Synechocystis* sp. Strain PCC 6803

Bo Wang, Jianping Yu, Weiwen Zhang, Deirdre R. Meldrum 8500–8506

MICROBIAL ECOLOGY

In Vitro Culture of Previously Uncultured Oral Bacterial Phylotypes

Hayley Thompson, Alexandra Rybalka, Rebecca Moazzez, Floyd E. Dewhirst, William G. Wade 8307–8314

Adaptation of the Cecal Bacterial Microbiome of Growing Pigs in Response to Resistant Starch Type 4

Barbara U. Metzler-Zebeli, Stephan Schmitz-Esser, Evelyne Mann, Dietmar Grüll, Timea Molnar, Qendrim Zebeli 8489–8499

PHYSIOLOGY

Formation of Polyphosphate by Polyphosphate Kinases and Its Relationship to Poly(3-Hydroxybutyrate) Accumulation in *Ralstonia eutropha* Strain H16

Tony Tumlirsch, Anna Sznajder, Dieter Jendrossek 8277–8293

Metabolic Response of *Clostridium ljungdahlii* to Oxygen Exposure

Jason M. Whitham, Oscar Tirado-Acevedo, Mari S. Chinn, Joel J. Pawlak, Amy M. Grunden 8379–8391

Two Pathways for Glutamate Biosynthesis in the Syntrophic Bacterium *Syntrophus aciditrophicus*

Marie Kim, Huynh M. Le, Xiulan Xie, Xueyang Feng, Yinjie J. Tang, Housna Mouttaki, Michael J. McInerney, Wolfgang Buckel 8434–8444

PLANT MICROBIOLOGY

Metabolic Adaptations of *Azospirillum brasilense* to Oxygen Stress by Cell-to-Cell Clumping and Flocculation

Amber N. Bible, Gurusahai K. Khalsa-Moyers, Tanmoy Mukherjee, Calvin S. Green, Priyanka Mishra, Alicia Purcell, Anastasia Aksenova, Gregory B. Hurst, Gladys Alexandre 8346–8357

**PUBLIC AND ENVIRONMENTAL HEALTH
MICROBIOLOGY**

**Genomic Evidence Reveals Numerous *Salmonella enterica*
Seroovar Newport Reintroduction Events in Suwannee
Watershed Irrigation Ponds**

Baoguang Li, Scott A. Jackson, Jayanthi
Gangiredla, Weimin Wang, Huanli Liu,
Ben D. Tall, Junia Jean-Gilles
Beaubrun, Michele Jay-Russell, George
Vellidis, Christopher A. Elkins 8243–8253

**Avian Migrants Facilitate Invasions of Neotropical Ticks and
Tick-Borne Pathogens into the United States**

Emily B. Cohen, Lisa D. Auckland,
Peter P. Marra, Sarah A. Hamer 8366–8378