

Annual Review of Microbiology, Vol. 61, 2007. Eds.: I. Nicholas ORNSTON, Albert BALOWS, Susan GOTTESMAN, Caroline S. HARWOOD. Annual Review Inc., Palo Alto Calif., USA, 634 S., ISBN 978-0-8243-1161-2, ISSN 0066-4227.

Der vorliegende Band 61 beginnt mit einem Artikel von Margarita SALAS, in dem sie ihr Forscherleben zu folgendem Thema schildert: "40 Years with Bacteriophage ϕ 29".

Weitere Übersichtsartikel aus dem Gesamtgebiet der Mikrobiologie schließen sich an:

The Last Word: Books as a Statistical Metaphor for Microbial Communities (Patrick D. SCHLOSS, Jo HANDELSMAN); The Mechanism of Isoniazid Killing: Clarity through the Scope of Genetics (Catherine VILCHÈZE, William R. JACOBS, Jr.); Development of a Combined Biological and Chemical Process for Production of Industrial Aromatics from Renewable Resources (F. Sima SARIASLANI); The RNA Degradosome of *Escherichia coli*: An mRNA-Degrading Machine Assembled on RNase E (Agamemnon J. CARPOUSIS); Protein Secretion in Gram-Negative Bacteria via the Autotransporter Pathway (Nathalie DAUTIN, Harris D. BERNSTEIN); Chlorophyll Biosynthesis in Bacteria: The Origins of Structural and Functional Diversity (Aline GOMEZ MAQUEO CHEW, Donald A. BRYANT); Role of Cyclic Diguanylate in the Regulation of Bacterial Pathogenesis (Rita TAMAYO, Jason T. PRATT, Andrew CAMILLI); Aggresomes and Pericentriolar Sites of Virus Assembly: Cellular Defense or Viral Design? (Thomas WILEMAN); As the Worm Turns: The Earthworm Gut as a Transient Habitat for Soil Microbial Biomes (Harold L. DRAKE, Marcus A. HORN); Biogenesis of the Gram-Negative Bacterial Outer Membrane (Martine P. BOS, Viviane ROBERT, Jan TOMMASSEN); SigB-Dependent General Stress Response in *Bacillus subtilis* and Related Gram-Positive Bacteria (Michael HECKER, Jan PANÉ-FARRÉ, Uwe VÖLKER); Ecology and Biotechnology of the Genus *Shewanella* (Heidi H. HAU, Jeffrey A. GRALNICK); Nonhomologous End-Joining in Bacteria: A Microbial Perspective (Robert S. PITCHER, Nigel C. BRISSETT, Aidan J. DOHERTY); Postgenomic Adventures with *Rhodobacter sphaeroides* (Chris MACKENZIE, Jesus M. ERASO, Madhusudan CHOUDHARY, Jung Hyeob ROH, Xiaohua ZENG, Patrice BRUSCELLA, Ágnes PUSKÁS, Samuel KAPLAN); Toward a Hyperstructure Taxonomy (Vic NORRIS, Tanneke DEN BLAAUWEN, Roy H. DOI, Rasika M. HARSHEY, Laurent JANNIERE, Alfonso JIMÉNEZ-SANCHEZ, Ding JUN JIN, Petra Anne LEVIN, Eugenia MILEYKOVSKAYA, Abraham MINSKY, Gradimir MISEVIC, Camille RIPOLL, Milton SAIER Jr., Kirsten SKARSTAD, Michel THELLIER); Endolithic Microbial Ecosystems (Jeffrey J. WALKER, Norman R. PACE); Nitrogen Regulation in Bacteria and Archaea (John A. LEIGH, Jeremy A. DODSWORTH); Microbial Metabolism of Reduced Phosphorus Compounds (Andrea K. WHITE, William W. METCALF); Biofilm Formation by Plant-Associated Bacteria (Thomas DANHORN, Clary FUQUA); Heterotrimeric G Protein Signaling in Filamentous Fungi (Linade LI, Sara J. WRIGHT, Svetlana KRYSTOFOVA, Gyungsoon PARK, Katherine A. BORKOVICH); Comparative Genomics of Protists: New Insights into the Evolution of Eukaryotic Signal Transduction and Gene Regulation (Vivek ANANTHARAMAN, Lakshminarayan M. IYER, L. ARAVIND); Lantibiotics: Peptides of Diverse Structure and Function (Joanne M. WILLEY, Wilfred A. VAN DER DONK); The Impact of Genome Analyses on Our Understanding of Ammonia-Oxidizing Bacteria (Daniel J. ARP, Patrick S. G. CHAIN, G. KLOTZ). Morphogenesis in *Candida albicans* (Malcolm WHITEWAY, Catherine BACHEWICH); Structure, Assembly, and Funktion of the Spore Surface Layers (Adriano O. HENRIQUES, Charles P. MORAN, jr.); Cytoskeletal Elements in Bacteria (Peter L. GRAUMANN).

Band 61 wird ergänzt durch einen kumulierenden Autorenindex und ein Sachwortverzeichnis für die Bände 57 bis 61. Somit ist der vorliegende Band 61 des Annual Review of Microbiology eine wertvolle Informationsquelle mikrobiologischer Literatur. Online ist der Band unter <http://www.annualreviews.org> verfügbar.

Sabine REDLHAMMER (Braunschweig)

Annual Review of Ecology, Evolution, and Systematics, Vol. 37, 2006. Eds.: Douglas J. FUTUYMA, H. Bradley SHAFFER, Daniel SIMBERLOFF. Annual Review Inc., Palo Alto Calif., USA, 682 S., ISBN 0-8243-1437-9, ISSN 1543-592X.

Der vorliegende Band 37 beginnt mit einem Artikel von Sean NEE: Birth-Death Models in Macroevolution.

Weitere Übersichtsartikel aus den Fachgebieten Ökologie, Evolution und Systematik schließen sich an:

The Posterior and the Prior in Bayesian Phylogenetics (Michael E. ALFARO, Mark T. HOLDER); Unifying and Testing Models of Sexual Selection (Hanna KOKKO, Michael D. JENNIONS, Robert BROOKS); Genetic Polymorphism in Heterogeneous Environments: The Age of Genomics (Philip W. HEDRICK); Ecological Effects of Invasive Arthropod Generalist Predators (William E. SNYDER, Edward W. EVANS); The Evolution of Genetic Architecture (Thomas F. HANSEN); The Major Histocompatibility Complex, Sexual Selection, and Mate Choice (Manfred MILINSKI); Some Evolutionary Consequences of Being a Tree (Rémy J. PETIT, Arndt HAMPE); Late Quaternary Extinctions: State of the Debate (Paul L. KOCH, Anthony D. BARNOSKY); Innate Immunity, Environmental Drivers, and Disease Ecology of Marine and Freshwater Invertebrates (Laura D. MYDLARZ, Laura E. JONES, C. Drew HARVELL); Experimental Methods for Measuring Gene Interactions (Jeffrey P. DEMUTH, Michael J. WADE); Corridors for Conservation: Integrating Pattern and Process (Cheryl-Lesley B. CHETKIEWICZ, Colleen Casady ST. CLAIR, Mark S. BOYCE); The Population Biology of Large Brown Seaweeds: Ecological Consequences Multiphase Life Histories in Dynamic Coastal Environments (David R. SCHIEL, Michael S. FOSTER); Living on the Edge of Two Changing Worlds: Forecasting the Responses of Rocky Intertidal Ecosystems to Climate Change (Brian HELMUTH, Nova MIESZKOWSKA, Pippa MOORE, Stephen J. HAWKINS); Has Vicariance or Dispersal Been the Predominant Biogeographic Force in Madagascar? Only Time Will Tell (Anne D. YODER, Michael D. NOWAK); Limits to the Adaptive Potential of Small Populations (Yvonne WILLI, Josh VAN BUSKIRK, Ary A. HOFFMANN); Resource Exchange in the Rhizosphere: Molecular Tools and the Microbial Perspective (Zoe G. CARDON, Daniel J. GAGE); The Role of Hybridization in the Evolution of Reef Corals (Bette L. WILLIS, Madeleine J. H. VAN OPPEN, David J. MILLER, Steve V. VOLLMER, David J. AYRE); The New Bioinformatics: Integrating Ecological Data from the Gene to the Biosphere (Matthew B. JONES, Mark P. SCHILDHAUER, O. J. REICHMAN, Shawn BOWERS); Incorporating Molecular Evolution into Phylogenetic Analysis, and a New Compilation of Conserved Polymerase Chain Reaction Primers for Animal Mitochondrial DNA (Chris SIMON, Thomas R. BUCKLEY, Francesco FRATI, James B. STEWARD, Andrew T. BECKENBACH); The Developmental, Physiological, Neural, and Genetical Causes and Consequences of Frequency-Dependent Selection in the Wild (Barry SINERVO, Ryan CALSBEEK); Carbon-Nitrogen Interactions in Terrestrial Ecosystems in Response to Rising Atmospheric Carbon Dioxide (Peter B. REICH, Bruce A. HUNGATE, Yiqi LUO); Ecological and Evolutionary Responses to Recent Climate Change (Camille PARMESAN).

Band 37 wird ergänzt durch einen kumulierenden Autorenindex und ein Sachwortverzeichnis für die Bände 33 bis 37. Ebenso wie die vorher erschienenen Bände ist der vorliegende Band 37 des Annual Review of Ecology, Evolution, and Systematics eine wertvolle Informationsquelle biologischer Literatur. Außerdem ist der Band online unter <http://www.annualreviews.org> verfügbar.

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