

Literatur

Annual Review of Entomology, Volume 65, 2020 Eds.: May R. BERENBAUM, Ring T. CARDÉ, Gene E. ROBINSON, Palo Alto, California, USA, Annual Reviews, 501 S., ISBN 978-0-8243-0165-1, ISSN 0066-4170.

Band 65 beginnt mit dem Vorwort von John TRUMBLE.

Übersichtsartikel aus dem Gesamtgebiet der Entomologie schließen sich an:

A Life's Journey Through Insect Metamorphosis (Lynn M. RIDDIFORD); Invasion Biology, Ecology, and Management of Western Flower Thrips (Stuart R. REITZ, Yulin GAO, William D.J. KIRK, Mark S. HODDLE, Kirsten A. LEISS, Joe E. FUNDERBURK); Influence of Nesting Characteristics on Health of Wild Bee Communities (Alexandra HARMON-THREATT); Sexual Size Dimorphism: Evolution and Perils of Extreme Phenotypes in Spiders (Matjaž KUNTNER, Jonathan A. CODDINGTON); Balancing Disturbance and Conservation in Agroecosystems to Improve Biological Control (John F. TOOKER, Matthew E. O'NEAL, Cesar RODRIGUEZ-SAONA); Ecology of Terrestrial Arthropods in Freshwater Wetlands (Darold P. BATZER, Haitao WU); The Insect Circulatory System: Structure, Function, and Evolution (Julián F. HILLYER, Günther PASS); Versatile and Dynamic Symbioses Between Insects and *Burkholderia* Bacteria (Martin KALTENPOTH, Laura V. FLÓREZ); Microbial Symbionts of Parasitoids (Marcel DICKE, Antonino CUSUMANO, Erik H. POELMAN); The Global Expansion of Dengue: How *Aedes aegypti* Mosquitoes Enabled the First Pandemic Arbovirus (Oliver J. BRADY, Simon I. HAY); Global Trends in Bumble Bee Health (Sydney A. CAMERON, Ben M. SADD); Botanical Insecticides in the Twenty-First Century-Fulfilling Their Promise? (Murray B. ISMAN); Insect Sterol Nutrition: Physiological Mechanisms, Ecology, and Applications (Xiangfeng JING, Spencer T. BEHMER); Insect-Resistant Genetically Engineered Crops in China: Development, Application, and Prospects for Use (Yunhe LI, Eric M. HALLERMAN, Kongming WU, Yufa PENG); Mechanisms, Applications, and Challenges of Insect RNA Interference (Kun Yan ZHU, Subba Reddy PALLI); Chikungunya Virus: Role of Vectors in Emergence from enzootic cycles (Scott C. WEAVER, Rubing CHEN, Mawlouth DIALLO); Resistance to the fumigant Phosphine and Its Management in Insect Pests of Stored Products: A Global Perspective (Manoj K. NAYAK, Gregory J. DAGLISH, Thomas W. PHILLIPS, Paul R. EBERT); Ecology of *Francisella tularensis* (Sam R. TELFORD III, Heidi K. GOETHERT); Dormancy, Diapause, and the Role of the Circadian System in Insect Photoperiodism (David S. SAUNDERS); Non-Bee Insects as Visitors and Pollinators of Crops: Biology, Ecology, and Management (R. RADER, S.A. CUNNINGHAM, B. G. HOWLETT, D.W. INOUE); Pesticide-Induced Planthopper Population Resurgence in Rice Cropping Systems (Jincai WU, Linqun GE, Fang LIU, Qisheng SONG, David STANLEY); Ecology and Evolution of Insect-Fungus Mutualisms (Peter H.W. BIEDERMANN, Fernando E. VEGA); Insect Declines in the Anthropocene (David L. WAGNER).

Im Anschluss an das Inhaltsverzeichnis des Bandes 65 wird auf fachlich verwandte Beiträge in anderen „Annual Reviews“ verwiesen, beispielsweise:

Im **Annual Review of Genetics**, Volume 53 (2019):

Drosophila Myoblast Fusion: Invasion and Resistance for the Ultimate Union (Donghoon M. LEE, Elizabeth H. CHEN); Evolutionary Ecology of *Wolbachia* Releases for Disease Control (Perran A. ROSS, Michael TURELLI, and Ary A. HOFFMANN); Genetic Screens to Analyze Pattern Formation of Egg and Embryo in

Drosophila: A Personal History (Trudi SCHÜPBACH); The foraging Gene and Its Behavioral Effects: Pleiotropy and Plasticity (Ina ANREITER, Maria B. SOKOLOWSKI).

Im **Annual Review of Virology**, Volume 6 (2019):

Deformed Wing Virus in Honeybees and Other Insects (Stephen J. MARTIN, Laura E. BRETTELL).

Band 65 wird durch einen kumulierenden Index aller an den Bänden 56 bis 65 beteiligten Autoren ergänzt. Zusätzlich werden alle in diesen Bänden abgehandelten Themen nach Sachgebieten sortiert aufgelistet. Ebenso wie die früher erschienenen Ausgaben ergänzt dies auch den vorliegenden Band 65 des Annual Review of Entomology zu einer umfassenden und wertvollen Informationsquelle entomologischer Literatur. Außerdem sind die Abstracts der Artikel des Bandes 65 online unter <http://ento.annualreviews.org> verfügbar.

Die Redaktion

Annual Review of Phytopathology, Vol. 58, 2020. Eds.: Jan E. LEACH, Steven E. LINDOW. Palo Alto, Calif., USA, Annual Reviews, 406 S., ISBN 978-0-8243-1358-6, ISSN 0066-4286.

Band 58 des „Annual Review of Phytopathology“ beginnt mit einem Artikel von Bruno FAVERY, Géraldine DUBREUIL, Ming-Shun CHEN, David GIRON und Pierre ABAD mit dem Titel: „Gall-Inducing Parasites: Convergent and Conserved Strategies of Plant Manipulation by Insects and Nematodes“.

Weitere Übersichtsartikel aus dem Gesamtgebiet der Phytopathologie schließen sich an:

Deep Roots and Splendid Boughs of the Global Plant Virome (Valerian V. DOLJA, Mart KRUPOVIC, Eugene V. KOONIN); Social Evolution and Cheating in Plant Pathogens (Maren L. FRIESEN); Tolerance of Plants to Pathogens: A Unifying View (Israel PAGAN, Fernando GARCÍA-ARENAL) Disease in Invasive Plant Populations (Erica M. GOSS, Amy E. KENDIG, Ashish ADHIKARI, Brett LANE, Nicholas KORTESSIS, Robert D. HOLT, Keith CLAY, Philip F. HARMON, S. Luke FLORY); Epigenetic Mechanisms in Nematode-Plant Interactions (Tarek HEWEZI); RPS5-Mediated Disease Resistance: Fundamental Insights and Translational Applications (Sarah E. POTTINGER, Roger W. INNES); Developing Public-Private Partnerships in Plant Pathology Extension: Case Studies and Opportunities in the United States (Samuel G. MARKELL, Gregory L. TYLKA, Edwin J. ANDERSON, H. Peter VAN ESSE); The Geopolitics of Plant Pathology: Frederick Wellman, Coffee Leaf Rust, Cold War Networks of Science (Stuart McCook, Paul D. PETERSON); Progress in Biological Control of Weeds with Plant Pathogens (Louise MORIN); Remote Sensing of Diseases (Erich-Christian OERKE); Origins and Immunity Networking Functions of EDSI Family Proteins (Dmitry LAPIN, Deepak D. BHANDARI, Jane E. PARKER); Organic Amendments for Pathogen and Nematode Control (Erin ROSSKOPF, Francesco DI GIOIA, Jason C. HONG, Cristina PISANI, Nancy KOKALIS-BURELLE); Modeling the Impact of Crop Diseases on Global Food Security (Serge SAVARY, Laetitia WILLOUQUET); Functional Ecology of Forest Disease (Jonàs OLIVA, Miguel Àngel REDONDO, Jan STENLID); *Ustilagoideae virens*: Insights into an Emerging Rice Pathogen (Wenxian SUN, Jing FAN, Anfei FANG, Yuejiao LI, Muhammad TARIQJAVEED, Dayong LI, Dongwei HU, Wen-Ming WANG); Managing Crop Diseases Under Water Scarcity (Cassandra L. SWETT).

Weiterhin wird auf fachlich verwandte Beiträge in anderen „Annual Reviews“ verwiesen, beispielsweise

Im **Annual Review of Ecology, Evolution, and Systematics**, Volume 50 (2018):

Somatic Mutation and Evolution in Plants (Daniel J. SCHOEN, Stewart T. SCHULTZ); Beyond Reproductive Isolation: Demographic Controls on the Speciation Process (Michael G. HARVEY, Sonal SINGHAL, Daniel L. RABOSKY); More Than the Sum of Its Parts: Microbiome Biodiversity as a Driver of Plant Growth and Soil Health (Muhammad SALEEM, Jie Hu, Alexandre JOUSSET); Mycorrhizal Fungi as Mediators of Soil Organic Matter Dynamics (Serita D. FREY); Interactive Effects of Global Change on Forest Pest and Pathogen Dynamics (Allison B. SIMLER-WILLIAMSON, David M. RIZZO, Richard C. COBB); Phylogenetic Comparative Methods and the Evolution of Multivariate Phenotypes (Dean C. ADAMS, Michael L. COLLYER); Evolutionary and Ecological Consequences of Gut Microbial Communities (Nancy A. MORAN, Howard OCHMAN, Tobin J. HAMMER).

From the **Annual Review of Entomology**, Volume 65 (2020):

Insect-Resistant Genetically Engineered Crops in China: Development, Application, and Prospects for Use (Yunhe LI, Eric M. HALLERMAN, Kongming WU, Yufa PENG): Mechanisms, Applications, and Challenges of Insect RNA Interference (Kun Yan ZHU, Subba Reddy PALLI); Non-Bee Insects as Visitors and Pollinators of Crops: Biology, Ecology, and Management (R. RADER, S.A. CUNNINGHAM, B.G. HOWLETT, D.W. INOUE).

Im **Annual Review of Genetics**, Volume 53 (2019):

Cell Size Control in Plants (Marco D'ARIO, Robert SABLÓWSKI); Light in the Fungal World: From Photoreception to Gene Transcription and Beyond (Luis M. CORROCHANO); Mechanisms of DNA Uptake by Naturally Competent Bacteria (David DUBNAU, Melanie BLOKESCH); The Evolution of Sexual Reproduction and the Mating-Type Locus: Links to Pathogenesis of *Cryptococcus* Human Pathogenic Fungi (Sheng SUN, Marco A. COELHO, Márcia DAVID-PALMA, Shelby J. PRIEST, Joseph HEITMAN).

Im **Annual Review of Microbiology**, Volume 73 (2019):

Ecology and Evolution of Plant Microbiomes (Viviane CORDOVEZ, Francisco DINI-ANDREOTE, Víctor J. CARRIÓN, Jas M. RAALMAKERS); Phage Therapy in the Twenty-First Century: Facing the Decline of the Antibiotic Era; Is It Finally Time for the Age of the Phage? (Shayla HESSE, Sankar ADHYA); Responses of Microorganisms to Osmotic Stress (Erhard BREMER, Reinhard KRÄMER); Bacterial Persisters and Infection: Past, Present, and Progressing (Bridget GOLLAN, Grzegorz GRABE, Charlotte MICHAUX, Sophie HELAINE); Multiple Roles of c-di-GMP Signaling in Bacterial Pathogenesis (Martina VALENTINI, Alain FILLOUX); Small Is Mighty-Chemical Communication Systems in *Pseudomonas aeruginosa* (Stephen Dela AHATOR, Lianhui ZHANG); Metabolic Basis of Pathogenesis and Host Adaptation in Rice Blast (Yi Zhen DENG, Naweed I. NAQVI); Assembly and Subcellular Localization of Bacterial Type VI Secretion Systems (Jing WANG, Maj BRODMANN, Marek BASLER); Defense and Counterdefense During Plant-Pathogenic Oomycete Infection (Yan WANG, Brett M. TYLER, Yuanchao WANG).

Im **Annual Review of Plant Biology**, Volume 71 (2020):

Dynamic Construction, Perception, and Remodeling of Plant Cell Walls (Charles T. ANDERSON, Joseph J. KIEBER); Origin and Diversity of Plant Receptor-Like Kinases (Anne DIEVART, Céline GOTTIN, Christophe PÉRIN, Vincent RANWEZ, Nathalie CHANTRET); Guard Cell Metabolism and Stomatal Function (Tracy LAWSON, Jack Matthews); Evolution of Plant NLRs: From Natural History to Precise Modifications (Janina TAMBORSKI, Ksenia V. KRASILEVA); Salt Tolerance Mechanisms of Plants (Eva VAN ZELM, Yanxia ZHANG, Christa TESTERINK); Exploiting Broad-Spectrum Disease Resistance in Crops: From Molecular Dissection to Breeding (Wei LI, Yiwen DENG, Yuese NING, Zuhua HE, Guo-Liang WANG); Genetic Engineering and Editing of Plants: An Analysis of New and Persisting Questions (Rebecca MACKELPRANG, Peggy G. LEMAUX); Phenotyping: New Windows into the Plant for Breeders (Michelle WATT, Fabio FIORANI, Björn USADEL, Uwe RASCHER, Onno MULLER, Ulrich SCHURR); Novel Imaging Modalities Shedding Light on Plant Biology: Start Small and Grow Big (Natalie M. CLARK, Lisa VAN DEN BROECK, Maryorie GUICHARD, Adam STAGER, Herbert G. TANNER, Ikram BLILOU, Guido GROSSMANN, Anjali S. IYER-PASCUZZI, Alexis MAIZEL, Erin E. SPARKS, Rosangela SOZZANI).

Der vorliegende Band ist unter <http://phyto.annualreviews.org> auch online recherchierbar. Ebenso wie vorher erschienene Bände, ist Band 58 der Reihe „Annual Review of Phytopathology“ eine äußerst wertvolle Informationsquelle phytopathologischer Forschungsergebnisse bzw. aktueller Literatur.

Die Redaktion

Bundesnaturschutzrecht – Kommentar, Vorschriften und Entscheidungen

Kommentar zum Bundesnaturschutzgesetz (BNatSchG), Vorschriften und Entscheidungen. Prof. Dr. K. MESSERSCHMIDT, begründet von Dr. A. BERNATZKY † und O. BÖHM. Loseblattwerk in 6 Ordnern mit CD-Rom. Heidelberg, rehm, Verlagsgruppe Hüthig Jehle Rehm, ISBN 978-3-8073-2393-0.

148. Aktualisierung, Stand: Februar 2020

Die Highlights dieser Aktualisierung:

- Die umfangreiche Neukommentierung des § 45 (Ausnahmen; Ermächtigung zum Erlass von Rechtsverordnungen) BNatSchG
- Neue Rechtsprechung

Das bringt Ihnen die 148. Aktualisierung:

Diese Ergänzung enthält die umfangreiche Neukommentierung des § 45 (Ausnahmen; Ermächtigung zum Erlass von Rechtsverordnungen) BNatSchG.

Ebenfalls enthält die Lieferung zahlreiche neue Rechtsprechung.

Die Redaktion