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September 15, 2013

Deadline for submission to *Inoculum* 64(5)

October 24-27, 2013

North American Mycological Society (NAMA)
Shepherd of the Ozarks, Arkansas

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President's Corner

How a red bread mold took center stage in a dynamic scientific community

In 1991, along with about 400 molecular biologists, I went to my first ever Fungal Genetics Conference at Asilomar. Fungal molecular biology was young then and most of the 400 delegates had full heads of bright shiny hair. However, in some of the sessions, possibly in regulation of metabolism or circadian rhythms or in mating types in filamentous fungi, an old guy with scant hair would raise his hand and ask a marvelous question that would link ideas and integrate them into broader and fascinating biology. Those shockingly insightful questions convinced me and maybe everyone else too that the talk was more interesting than we had realized and that we would rather be in that room than anywhere else on earth.

The old guy turned out to be Bob Metzenberg. He died in 2007 and Rowland Davis and Eric Selker wrote a National Academy of Sciences Biographical Memoir for him, which is easy to find and download. Over the years, I've built a personal legend around him, which may or may not be completely justified by the facts. I will now attempt to explain what I believe Bob Metzenberg did, or at least helped to do, and why it matters even if your research has nothing to do with molecular biology or genetics.

It is important to note that *Neurospora*, Bob's fungus of choice, is not in and of itself, in any way important. *Neurospora* makes few secondary metabolites, does not improve plant growth, is useless in bread making, and causes little or no human disease or damage to crop plants. It gained fame in 1941 in a paper by Beadle and Tatum demonstrating the relationship between a gene and a protein, making it the first of four fungal subjects of Nobel Prize winning research. However, many other fungi could equally well have served in this research, and fame can fade quickly. For *Neurospora*, fame did not fade. It was the first filamentous fungus to have its genome sequenced. According to the Web of Science (Aug 4 2013) *Neurospora* appears in over 12,000 papers.

Neurospora is important as model system more because of the community of scientists who study it than be-

Continued on following page

cause of its intrinsic properties. A good researcher like Bob who publishes and gets grants has a lot of leeway for personal idiosyncrasy. He or she can be an asshole, an eccentric, or a wonderful person and a beacon of light for all who follow. For personal career advancement, it is not so clear that it matters with path you choose. However, had Bob kept his strains, stocks and thoughts to himself and his lab group and written devastating reviews that killed competing research, I wonder if more than three people would still work on *Neurospora*. Instead, Bob set a standard for collaboration, cooperation, and encouragement of young scientists that helped make *Neurospora crassa* a model organism, and helped make fungal biology a dynamic and exciting field of study. He loved science, and the students and postdocs who worked with him made exciting discoveries. He shared fungal stocks and strains, a *Neurospora* tradition that is embodied in the Fungal Genetics Stock Center. He delighted in new techniques and new questions. He shared ideas. Through his intellect, enthusiasm, and generosity, he convinced colleagues across the world that they wanted nothing more than to be in a room hearing about the biology of filamentous fungi. The fungal genetics conference at Asilomar, which started as a few *Neurospora* researchers getting together, now has over 1000 delegates and more who would be there, if they were able to get in.

Just a few individuals can make or break a small discipline like *Neurospora* genetics or systematic mycology. I did not know Bob Metzenberg nearly

well enough, which oddly enough, makes it easier to write about him without embarrassment. Some of his accomplishments, dear MSA members, are also yours, and they are what gives me hope for the future of our society.

Thanks to everyone who:

Asks questions in meetings, especially if the questions help make us all participants in shared and exciting scientific discovery.

Puts their sequences in GenBank, their strains in culture collections and sends all of the above to colleagues on demand whenever possible; and writes letters in support of these and other kinds of science infrastructure. Once lost, the damage to these resources cannot be undone.

Submits a timely, kind and incisive review of a paper or grant that highlights the importance in the work and encourages more and better of the same.

Helps a student or colleague do the best research of their lives, by sharing ideas and encouraging creativity.

Makes our discipline an exciting home by writing important papers for a broad audience.

Applies care, thought and enthusiasm in the many volunteer roles that make our journal, our meetings and our society work as well as they do.

You bring me joy.

Thanks,
Mary Berbee
Almost MSA Ex-President

STRAYS

Get more publicity for fungi

There is a fungus beetle named *Gelae donut* and a fern named for Lady Gaga. Creative fungal taxonomists should create interesting names to register at

<http://www.curioustaxonomy.net/etym/repetition.html>.

See a fungal example at

http://en.wikipedia.org/wiki/Spongiforma_squarepantsii.

—Meredith Blackwell

MSA BUSINESS

Executive Vice President's Report

Summer is well underway as I write this column, and the APS/MSA meeting in Austin, TX is just over a month away.

Council Business: The MSA Council meeting will be Saturday, August 10 at the Hilton Hotel in Austin, TX. A call went out in June to MSA officers, committee chairs and representatives for annual reports. Those reports will be published in the October issue of *Inoculum* along with the minutes of the MSA Council and Business Meetings in Austin. Two Council email polls were completed since my June column. The polls included MSA endorsement of a proposed electronic repository system (CHORUS Initiative) and discussion on the San Francisco Declaration on Research Assessment (DORA). DORA was initiated by the American Society for Cell Biology in conjunction with editors and publishers to address the need for improved methods for evaluating outputs of scientific research. An editorial by Bruce Alberts in the May 17, 2003 issue of *Science*, "Impact Factor Distortions," summarizes the key points of this declaration. At the time this column was written, the Council discussion on DORA was not yet concluded. Council also approved two requests for a discounted membership from international members.

New Members: I would like to extend a warm welcome to the following new and returning members. Their membership will be formally approved at the 2013 Annual Business Meeting in Austin, TX.

Brazil: André Luiz Firmino Sr.

China: Baokai Cui

France: Jean Paul Chaumeton

United States: Clarisse M. Betancourt-Román, Steven Higgins, Lindsey J. Longway, Felipe Nicolau Manterola, Brenda McCracken, Joshua McCombs, Marc J. Orbach

Uruguay: Sebastián Martínez Kopp

Annual Meeting Update: MSA highlights of the meeting in Austin, TX include the Texas Foray (8:00 am -12:30 pm, Saturday, Aug. 10), the MSA Business Meeting and Awards Ceremony (10:30 – noon, Sunday, Aug. 11), John Karling Lecture by Dr. Barbara Howlett (2:30 – 3:30 pm,



Lori Carris,
Executive Vice President

Monday, Aug. 12), MSA Student Mixer (6:00 – 7:00 pm, Monday, Aug. 12), MSA Presidential Address by Dr. Mary Berbee (1:00 – 2:00 pm, Tuesday, Aug. 13), and the Auction, Awards and Social (5:00 – 7:00 pm, Wed., Aug. 14). As many as 1500 participants from 45 different countries are expected to attend this year's APS/MSA meeting!

Fall Ballot: As part of the Spring 2013 elections, members approved a change in MSA By-Laws to conduct all Society business, including voting, electronically. This means that paper ballots for the Fall 2013 ballot and all future elections will be sent

out only upon request by contacting me by phone (509-335-3733), email (carris@wsu.edu) or mail (P.O. Box 646430, Washington State University, Pullman WA 99164-6430).

REMINDER: MSA Directory Update. Is your MSA directory data current? Now is a great time to make sure your address, phone, email, and membership status are up-to-date. The Society relies on email to bring you timely information on MSA news, awards, elections, meetings and other activities, and we try to keep the number of those Society emails to a minimum. To ensure that you receive important Society emails and *Inoculum*, please check the accuracy of your contact information in the online directory. This can be accessed via our website (www.msa.org)—look for the "Member Services" box in the bottom left corner of the page. If you don't find your name in the online directory, contact me for assistance. If you need assistance with updating any of your membership information, contact our Association Manager at Allen Press, Kay Rose (krose@allenpress.com).

Feel free to contact me about MSA business, or any other questions you have about the Society. Don't forget to recommend MSA to your colleagues, and particularly to students and postdoctoral associates who are interested in fungi. Remember, there is now a postdoctoral member rate.

See you in Austin!

—Lori Carris (carris@wsu.edu)
MSA Executive Vice President

MYCOLOGICAL NEWS

British Mycological Society journal issues available!

Bob Lichtwardt, University of Kansas, has a set of British Mycological Society journals (Trans. Br. Mycol. Soc./Mycol. Res./Fungal Biol.) available to anyone in the continental USA for personal or library use. This set includes

Vol. 62(1) Feb. 1974 to Vol 114(1-3) 2010. He will pay shipping costs. These are free, although a contribution to any MSA fund would be appreciated. If interested, email Bob at licht@ku.edu or call 785-864-3740.

North American Truffling Society Pavelek Memorial Scholarship

Henry Pavelek Sr. joined NATS in 1982 and soon was elected President. His energy and enthusiasm for truffles and truffling provided much of the driving force that established NATS as a sustainable organization. A scholarship fund has been established in his memory. Applicants should be graduate students or outstanding undergraduates conducting research on physiology, taxonomy, phylogeny, ecology, ani-

mal interactions, commercial harvest, or culinary attributes and uses of hypogeous fungi. The scholarship for 2013 is for \$1500. The recipient will be announced at the NATS December 7 meeting & potluck in Corvallis. The application form can be accessed by clicking on its link at www.natruffling.org.

—Jim Trappe

MYCOLOGICAL CLASSIFIEDS

Biological Control, Biotechnology and Regulatory Services

Center for Regulatory Research, LLC specializes in regulatory permit application services for biological control and biotechnology organisms/products. Let us evaluate your research discoveries for commercial potential and environmental impacts. We also offer assistance with writing pro-

posals for SBIR grant programs (Small Business Innovation Research) that fund new commercial ventures. Contact Dr. Sue Cohen by email (sdcohen@regresearch.com) or by phone (612-246-3838). For more information about our company, visit our website at www.regresearch.com.

Mold and Fungus Testing and Identification Services

Biochallenge tests for ink, microfluidic materials; testing for resistance of materials to fungal invasion. Identification of fungal contaminants in manufactured products. Epifluorescent microbial detection in deionized water systems, microfluidic devices, medical fluids, manufactured goods.

Identification of fungi from buildings, animal and plant diseases. 10% discount for regular and sustaining MSA members. Email info@pacificanalytical.com. For more information see www.pacificanalytical.com

Mycology Books For Sale

Please email best offers to e.d.setliff@gmail.com. S & H will be actual costs. A portion of the proceeds will be given to the MSA general fund and the R.L. Gilbertson Travel Fund.

- A Field Guide to Southern Mushrooms. 1985. Nancy Smith Weber and A.H. Smith. ISBN 0-472- 85615-4. - Excellent Condition.
- All Color Book of Mushrooms and Fungi: 104 illustrations in Color. 1973. Moira Savonius. ISBN 0 7064 0192 1. - Like New
- A Morel Hunter's Companion: A Guide to True and False Morels. 1995. Nancy Smith Weber. ISBN 1-882376-16-1. - Like New.
- Collins Guide to Mushrooms & Toadstools. 1963. M. Lange & F.B. Hora. - Good Condition.

- Fungi of Britain and Europe. 1989. S. Buczacki. Paper back ISBN 0 00 219448. - Excellent Condition
- Mushrooms: the Visual Guide to more than 500 species of mushroom from around the world. 1998. T. Læssøe. ISBN 0-7894-3335-4. - Flexibinding, Like New.
- Mushrooms: A Quick Reference Guide to Mushrooms of North America. 1987. A. Bessette & W. J. Sundberg. ISBN 0-02-063690-3. - Excellent Condition.
- Mushrooms of North America. O.K. Miller, Jr. ISBN 0-525-16165-1. - Good Condition
- Mushrooms of the Boreal Forest. 1997. E.F. Bossenmaier. ISBN 0-88880-355-9. - Like New.

Continued on following page

- Mushrooms in Color: How to know them . . . Where to find them . . . What to Avoid. 1980. O.K. Miller, Jr. & Hope H. Miller. ISBN 0-525-93190-0. - Excellent condition.
- Mushrooms and Toadstools in Colour. 1961. Else & H. Hvass. - Good Condition.
- Mushrooms of Western Canada. Helene M.E. Schalkwijk-Barendsen. 1991. ISBN 0-919433-47-2. - Excellent Condition
- Simon & Schuster's Guide to Mushrooms: with Over 400 Full-Color Illustrations of Mushrooms and Other Fungi. 1981. G. Pacioni, edited by G.H. Lincoff. ISBN 0-671-42849-7. - 2 copies, Like New
- The New Savory Wild Mushroom. 1962. Margaret McKenny

and D.E. Stuntz. Revised and enlarged by J.F. Ammirati. ISBN 0-295-96480-4. - Excellent Condition

- The Field Guide to Mushrooms. Revised, Updated, and with Photographs & Drawings by Marie F. Heerkens. 2003. ISBN 1-4027-0696-0. - Excellent Condition
- The Mushroom Hunter's Field Guide: Revised and Enlarged. 1964. A.H. Smith. - Fair Condition
- Toxic and Hallucinogenic Mushroom Poisoning: A Handbook for Physicians and Mushroom Hunters. 1977. G. Lincoff & D.H. Mitchel, M.D. ISBN 0-442-24580-7 - Good Condition.
- Mycotoxins in Human Health. 1971. Edited by I.F.H. Purchase. ISBN 333 13146 0. - Good Condition

More Mycology Books For Sale

Please send email offers for specific items to jandcharris@sbcglobal.net

- Common Mushrooms of the United States. Louis C. C. Krieger. National Geographic Magazine. May 1920.
- Marvels of the Mycetoza. William Crowder. National Geographic Magazine. April 1926.
- Bizarre World of the Fungi. Paul A. Zahl. National Geographic Magazine. October 1965.
- Introductory Mycology. C. W. Alexopoulos and C. W. Mims. 3rd edition. 1979
- Ainsworth & Bisby's Dictionary of the Fungi. G. C. Ainsworth. 6th edition. 1971
- Fungal Dimorphism With Emphasis on Fungi Pathogenic for Humans. Edited by P. J. Szanislo. 1985.
- Laboratory Methods in Medical Mycology. L. D. Haley and C. S. Callaway 4th Edition. 1978.
- The Genera of Fungi Sporulating in Pure Culture. J. A. von Arx. 1970.
- Lower Fungi in the Laboratory. Edited by M. S. Fuller. 1978.
- Mycology An Outline for Science and Medical Students. E. Muller and W. Loeffler. Translated by Bryce Kendrick and Felix Barlocher. 1976.
- Fungi. L. E. Hawker. 1966.
- Genera of Hyphomycetes. J. W. Carmichael et al. 1980.
- Zoosporic Fungi in Teaching and Research. Edited by M. S. Fuller and A. Jaworski. 1987.

- Zygomycetes in Culture. K. L. O'Donnell. 1979.
- A Monograph of the World Species of Hypoxylon. J. H. Miller. 1961.
- The Genus Tilletia. R. Duran and G. W. Fischer. 1961.
- The Role of Culture Collections in the Era of Molecular Biology. Edited by R. R. Colwell. 1976
- The Genera of Hyphomycetes from Soil. G. L. Barron. 1968.
- Laboratory Manual for Introductory Mycology. C J. Alexopoulos and E. S. Beneke. Third Printing, 1965.
- The Whole Fungus. Vol 1 and 2. Edited by B. Kendrick. 1979.
- Mushrooms of North America. O. K. Miller, Jr. 1972.
- Principles of Microbial Ecology. T. D. Brock. 1966.
- Laboratory Guide for Introductory Mycology. R. T. Hanlin. 1975.
- Food & Beverage Mycology. L. R. Beuchat. 1978.
- Medical Mycology. The Pathogenic Fungi and The Pathogenic Actinomycetes. J. W. Rippon. 1974.
- The Gilled Mushrooms of Michigan and the Great Lakes Region. C. H. Kauffman. Vol 1&2. 1974.
- Handbook of Plant and Fungal Toxicants. Edited by J. P. F. D'Mello. 1997.
- Medical Mycology A Self-Instructional Text. 2nd Edition. M. E. Kern and K. S. Blevins. 1997.

MYCOLOGICAL JOBS

University of Brasilia Faculty Position in Mycology

The University of Brasilia anticipates a junior faculty position in mycology with an emphasis on the molecular biosystematics of plant-associated tropical fungi broadly,

but including fungi of the Cerrado region. For additional information, please contact José Carmine Dianese (jcarmine@unb.br).

MYCOLOGIST'S BOOKSHELF

We have one review for this issue, and the updated list includes two new books available for review. If you are interested in reviewing a book, contact me (robert.marra@ct.gov) and I will have the book “drop-shipped” directly from the publisher; this will streamline the process at my end and will save our Society from racking up considerable shipping expenses. A book goes to the first person requesting it, and I ask that you get your reviews to me in a reasonably timely manner. Also, if you know of a newly published book that might be of interest to mycologists, please let me know so I can request it from the publisher.

—Bob Marra

Books in Need of Reviewers

- ****Cold-Adapted Microorganisms.** 2013. I. Yumoto, ed. Caister Academic Press, Norfolk, UK. www.caister.com. ISBN: 978-1-908230-26-3. 226 pp plus color plates. \$319 (hardcover).
- ****Fusarium: Genomics, Molecular and Cellular Biology.** 2013. Daren W. Brown and Robert H. Proctor, eds. Caister Academic Press, Norfolk, UK. www.caister.com. ISBN: 978-1-908230-25-6. 182 pp plus color plates. \$319 (hardcover).
- **Indian Coelomycetes.** 2012. J. Muthumary. MJP Publishers, New Delhi, India. <http://www.mjppublishers.com/index.html>. ISBN: 978-81-8094-162-7. 366 pp, illustrations and photomicrographs. \$50 (hardcover).
- **The Kingdom of Fungi.** 2013. Jens H. Petersen. Princeton University Press. <http://press.princeton.edu>. ISBN: 978-06-91157-54-2. 256 pp, 800+ color photos. \$29.95 (cloth). Also available as eBook.
- **Tricholomas of North America.** 2013. *The Corrie Herring Hooks Series No. 68*. Alan Bessette, Arleen Bessette, William Roody, Steven Trudell. University of Texas Press. <http://www.utexas.edu/utpress/>. ISBN 978-0-292-74233-8. 220 pp, 186 color photos. Price \$29.95 (softcover).
- **A Primer of Botanical Latin with Vocabulary.** Available March 2013. Emma Short & Alex George. Cambridge University Press. www.cambridge.org. ISBN 978-11-07693-75-3. 102 tables, 21 exercises. Price £24.99 (paperback).
- **Development of *Aspergillus niger*.** 2013. J. Dijksterhuis, H. Wosten (Eds.). CBS Studies in Mycology No. 74. CBS Fungal Biodiversity Centre. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-93-9. 85 pp, fully illustrated with color pictures (A4 format). Price: € 40 (softcover).
- **Microbial Carotenoids from Fungi: Methods and Protocols.** 2012. Jose-Luis Barredo (Ed.). Humana Press (Springer). www.springer.com. ISBN: 978-1-61779-917-4. 290 pp, 51 illus., 9 in color. Price: \$119 (hardcover); \$94.99 (e-book).
- **Plant Fungal Pathogens: Methods and Protocols.** 2012. Melvin D Bolton, Bart PHJ Thomma (Eds). Part of the “Methods in Molecular Biology” series, v.835. Springer-Verlag, Berlin. www.springer.com. ISBN: 978-1-61779-5008. 769 pp, 138 illus., 74 in color. Price: \$159.00 (hardcover).
- **Laboratory Protocols in Fungal Biology: Current Methods in Fungal Biology.** Avail June 2012. Vijai Kumar Gupta, Maria Tuohy, Eds. Springer-Verlag, Berlin. www.springer.com. ISBN: 978-1-4614-2355-3. 802 pp, 105 illus., 40 in color. Price: \$279.00 (hardcover). *Review Copy online only; hardcover copy provided following receipt of published review.*
- **Key For Identification of Common *Phytophthora* Species.** 2011. Jean Beagle Ristaino. APS Press, St. Paul, MN. www.apsnet.org. ISBN: 978-0-89054-397-9. CD-ROM. Price: \$269.00 (single user).

** New this issue

Books with Reviewers Assigned

- **The Genus *Cladosporium*.** 2012. K. Bensch, U. Braun, J.Z. Groenewald, and P.W. Crous. CBS Studies in Mycology No. 72. CBS Fungal Biodiversity Centre. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-91-5. 401 pp, fully illustrated with color pictures (A4 format). Price: € 70 (softcover). *Reviewed this issue.*
- **The Mycota, Vol. 10: Industrial Applications, 2nd ed.** 2011. Martin Hofrichter (Ed.). Karl Esser (Series Ed.). Springer. www.springer.com. ISBN: 978-3-642-11457-1. 485 pp, 152 illus. Price: \$269.00 (hardcover).
- **Edible Ectomycorrhizal Mushrooms: Current Knowledge and Future Prospects.** 2012. Alessandra Zambonelli and Gregory Bonito (Eds.). Springer. www.springer.com. ISBN 978-3-642-33822-9. 409 pp, 35 illus (16 in color). Price: \$209 (hardcover); also available as eBook pdf download, ISBN 978-3-642-33823-6, \$159.
- **Taxonomic Manual of the Erysiphales (Powdery Mildews).** 2012. Uwe Braun and R.T.A. Cook. CBS Biodiversity Series 11. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-89-2. 707 pp, 853 figures. Price: € 80 (hardcover).
- **Biodiversity in Dead Wood.** 2012. Juha Siitonen, Bengt Gunnar Jonsson. Cambridge University Press, Cambridge, UK. www.cambridge.org. ISBN: 9780521717038. 524 pp, 92 b/w illus. 21 tables. Price: £38.00 (paperback).
- **Pollination Biology.** 2012. D. P. Abrol. Biodiversity, Conservation, and Agricultural Production. Springer-Verlag, Berlin. www.springer.com. ISBN: 978-94-007-1941-5. 792pp, 23 illus., 18 in color. Price: \$209.00 (hardcover).
- **Fungal Plant Pathogens (Principles and Protocols Series).** March 2012. CR Lane, P Beales, KJK Hughes (Eds). CABI, Oxfordshire, UK. www.cabi.org. 978-1-8459-3668-6. 324 pp. Price: \$75.
- **Practical Guide to Turfgrass Fungicides.** 2011. Richard Latin. APS Press, St. Paul, MN. www.apsnet.org. ISBN: 978-0-89054-392-4. 280 pp, 115 images, 29 chemical structures. Price: \$139.95 (hardcover).
- **Coalescent Theory: An Introduction.** 2009. John Wakely. Roberts & Company Publishers, Greenwood Village, CO. www.roberts-publishers.com/. ISBN: 978-0-9747-0775-4. 352 pp, b&w. Price: \$48 (softcover).
- **Biology of Marine Fungi.** 2012. Chandralata Raghukumar (Ed). Part of the “Progress in Molecular and Subcellular Biology” series, v.53. Springer-Verlag, Berlin. www.springer.com. ISBN: 978-3-642-23341-8. 354 pp, 83 illus., 27 in color. Price: \$209.00 (hardcover).
- **Tree Thinking: An Introduction to Phylogenetic Biology.** Available July 2012. David Baum and Stacey Smith. Roberts & Company Publishers, Greenwood Village, CO. www.roberts-publishers.com/. ISBN: 978-1-9362-2116-5. 400 pp, b&w. Price: \$60 (hardback).
- **Forest Health: An Integrated Perspective.** 2011. John D. Castello, Stephen A. Teale (eds.). Cambridge University Press, Cambridge, UK. www.cambridge.org. ISBN: 9780521766692. 404 pp, 80 b/w illus. 7 tables. Price: £65.00 (hardcover).
- **Yeast Research: An Historical Overview.** 2011. James A. Barnett, Linda Barnett. ASM Press, Washington, DC. www.asmpress.org. ISBN: 978-1-55581-516-5. 392 pp, illus. Price: \$159.95 (hardcover).
- **Medically Important Fungi: A Guide to Identification, 5th ed.** 2011. Davise H. Larone. ASM Press, Washington, DC. www.asmpress.org. ISBN: 978-1-55581-660-5. 508 pp, illus, color plates. Price \$109.95 (hardcover).

Continued on following page

- **Microbial Biofilms: Current Research and Applications.** 2012. Gavin Lear, Gillian D. Lewis (Eds.). Caister Academic Press, Norfolk, UK. www.caister.com. 228 pp. Price: GB £159, US \$310 (hardcover).
- **Atlas of Soil Ascomycetes.** 2012. J. Guarro, J. Gene, A.M. Stchigel and M.J. Figueras. CBS Biodiversity Series 10. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-88-5. 486 pp, 322 figures. Price: € 70 (hardcover).
- **Texas Mushrooms: A Field Guide.** 1992 (new preface 2013). *The Corrie Herring Hooks Series No. 18*. Susan Metzler and Van Metzler (Orson K. Miller, Jr., Scientific Adviser). University of Texas Press. <http://www.utexas.edu/utpress/>. ISBN 978-0-292-75126-2. 360 pp, 249 illustrations, 2 figures, 1 map, 11 tables. Price: \$39.95 (softcover).
- **Fungal Biology in the Origin and Emergence of Life.** 2013. David Moore. Cambridge University Press. www.cambridge.org. ISBN: 978-11-07652-77-4. 236 pp, 28 b/2 illus, 2 tables. Price: \$42.99 (softcover).
- **Fascinated by Fungi: exploring the majesty and mystery, facts and fantasy of the quirkiest kingdom on earth.** 2011. Pat O'Reilly. First Nature. www.first-nature.com. ISBN 978-0-095-60544-3-2. 450 pp, over 1000 color photos. Price: £24.95.
- **The Mycota, v.IX: Fungal Associations.** 2012. Bertold Hock (Ed.). Springer. www.springer.com. ISBN 978-3-642-30825-3. 406 pp, 84 illus (62 in color). Price: \$269 (hardcover). Also available as eBook (pdf download), price: \$209.
- **Funga Nordica, 2nd ed. 2012. H. Knudsen and J. Vesterholt (Eds.).** Nordsvamp, Copenhagen. ISBN: 9788798396130. 1083 pp (2 volumes). Price £95, €111.15.
- **The Analysis of Biological Data.** 2009. Michael Whitlock and Dolph Schluter. Roberts & Company Publishers, Greenwood Village, CO. www.roberts-publishers.com/. ISBN: 978-0-9815-1940-1. 704 pp, full color. Price: \$80 (hardback).
- **Ophistomatoid Fungi: Expanding Frontiers.** 2013. K. Seifert, Z. Wilhelm de Beer, M. J. Wingfield (Eds.). CBS Biodiversity Series 12. <http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-94-6. 337 pp, fully illustrated. Price: € 75 (hardcover).
- **Neurospora: Genomics and Molecular Biology.** January 2013. D. P. Kasbekar and K McCluskey (Eds.). Horizon Press. <http://www.horizonpress.com>. ISBN: 978-1-908230-12-6. 294 pp, w/illus. Price: \$319 (hardback).

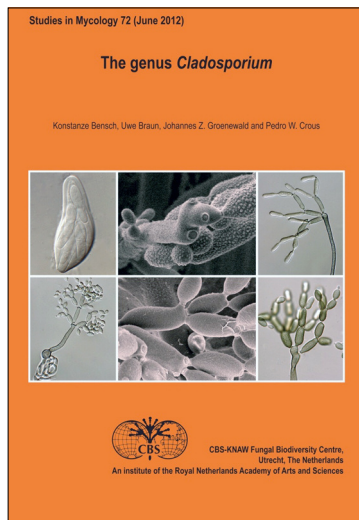
The Genus *Cladosporium*

The Genus *Cladosporium*. 2012. K. Bensch, U. Braun, J.Z. Groenewald, and P.W. Crous. CBS Studies in Mycology No. 72. CBS Fungal Biodiversity Centre.

<http://www.cbs.knaw.nl/>. ISBN: 978-90-70351-91-5. 401 pp, fully illustrated with color pictures (A4 format). Price: € 70 (softcover).

The CBS series, Studies in Mycology, has rolled out another incredible volume, this time on the seemingly intractable genus *Cladosporium*. Whether this provides a complete systematic foundation for understanding the biology of this ubiquitous fungal genus, one never knows, but this volume goes a long way in that direction!

The volume starts with a thorough overview of the genus *Cladosporium*, including the distinction of this one genus from similar looking genera. The cladosporium-like genera are thoroughly discussed, illustrated, and included in an LSU phylogeny that shows the placement of *Cladosporium* in the family Cladosporiaceae, Capnodiales. The cladosporium-like genera fall all over the ascomycete map from the Pleosporales and Helotiales to other families within the Capnodiales, Mycosphaerellaceae and Teratosphaeriaceae. Also included is a “Key to *Cladosporium* and morphologically similar genera” that appears to include even more genera than in the tree, thus recognizing that *Cladosporium* sensu stricto may be tricky. While listing the teleomorph genus *Davidiella* as a synonym of *Cladosporium*, they also confusingly provide a separate description of this genus in the Cladosporiaceae (previously referred to as the Davidiel-



laceae). The type species of *Davidiella*, *D. tassiana*, is listed as a synonym of the type species of *Cladosporium*, *C. herbarum*, leaving no doubt about their synonymy.

Within the genus *Cladosporium* 169 species are recognized, each one with a substantial description plus illustrations as line drawings, microphotographs or both. Building on the work of the first author and others, about half of these species are included in a multigene phylogeny of the genus combining sequences from ITS, TEF, and ACT. Each species is represented by only one isolate, but that one is often the ex-type culture. The introduction provides a thorough discussion of species concept, including illustrations of the terms used to describe conidial wall ornamentation. Numerous keys to species are provided using different approaches. There is a key to saprobic *Cladosporium* both in vivo and in vitro and a key to species in the *C. cladosporioides* complex in vitro that is very long, suggesting that the key includes the entire genus. A key to the biotrophic and common saprobic foliicolous *Cladosporium* species in vivo based on morphology and ecology will be useful, although with 117 leads one may go wrong somewhere along the way. Finally and perhaps most useful are keys based on host plant family. Many families host only one species of *Cladosporium* with the maximum number of species occurring on the Fabaceae with twelve species. The last set of keys is to fungicolous and lichenicolous species in vivo, in both dichotomous and tabular form. My guess is that most folks will simply sequence the ITS region and hope for a match in GenBank.

The last section of the volume summarizes knowledge of names excluded from *Cladosporium* and their current disposition. In total 993 names in *Cladosporium* are considered in this volume. Wow, what an accomplishment! The authors are to be complimented on this superb publication!

—Amy Y. Rossman

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MYCOLOGY ON-LINE

Below is an alphabetical list of websites featured in *Inoculum*. Those wishing to add sites to this directory or to edit addresses should email dnavtvg@gmail.com. **Unless otherwise notified**, listings will be automatically deleted after one year (at the editors discretion).

In depth information about the genus *Amanita*
www.amanitaceae.org

A New Web Page About Tropical Fungi, Hongos Del Parque "El Haya" (58-5)
hongosdelhaya.blogspot.com/

ASCOFrance.com, a very useful site for illustrations of ascomycetes including anamorphs (accessible in both French and English)
ascofrance.com/?lang=us

Ascomycota of Sweden
www.umu.se/myconet/asco/indexASCO.html

Basidiomycete Research Group (University of Helsinki, Finland) studies systematics, ecology and evolution of fungi in forest environment.
www.basidio.fi

Bibliography of Systematic Mycology
www.speciesfungorum.org/BSM/bsm.htm

Cold Spring Harbor Laboratory; Meetings & Courses Programs (58-2)
meetings.cshl.edu

Collection of 800 Pictures of Macro- and Micro-fungi
www.mycolog.com

Cordyceps Website
www.mushtech.org

Cornell Mushroom Blog (58-1)
<http://blog.mycology.cornell.edu/>

Cortbase (58-2)
andromeda.botany.gu.se/cortbase.html

Corticoid Nomenclatural Database (56-2)
www.phyloinformatics.org/

The Cybertruffle internet server for mycology seeks to provide information about fungi from a global standpoint (59-3).
www.cybertruffle.org.uk

Cyberliber, a digital library for mycology (59-3).
www.cybertruffle.org.uk/cyberliber

Cybernome provides nomenclatural and taxonomic information about fungi and their associated organisms, with access to over 548,000 records of scientific names (59-3).
www.cybertruffle.org.uk/cybernome

Dictionary of The Fungi Classification
www.indexfungorum.org/names/fundic.asp

Distribution Maps of Caribbean Fungi (56-2)
www.biodiversity.ac.psiweb.com/carimaps/index.htm

Entomopathogenic Fungal Culture Collection (EFCC)
www.mushtech.org

Fungal Environmental Sampling and Informatics Network (58-2)
www.bio.utk.edu/fesin/

Fungi of Ecuador
www.mycokey.com/Ecuador.html

German Mycological Society DGfM
www.dgfm-ev.de

Glomeromycota PHYLOGENY
amf-phylogeny.com

MYCO-LICH facilitates mycology and lichenology studies in Iran.
www.mycos-lich.com

Mycologia
mycologia.org

Humboldt Institute — Located on the eastern coast of Maine, the institute is known for the extensive series of advanced and professional-level natural history seminars it has offered in Maine since 1987, along with ecological restoration seminars and expeditions to the neotropics. It publishes the *Northeastern Naturalist* and *Southeastern Naturalist*, two scholarly, peer-reviewed, natural history science journals.
www.eaglehill.us

Website relating to the taxonomy of the Hysteriaceae & Mytiliniaceae (Pleosporomycetidae, Dothideomycetes, Ascomycota) to facilitate species identification using a set of updated and revised keys based on those first published by Hans Zogg in 1962. 59(4)
www.eboehm.com/

Index of Fungi
www.indexfungorum.org/names/names.asp

Interactive Key to *Hypocreales* of Southeastern United States (57-2)
nt.ars-grin.gov/sbmlweb/fungi/keydata.cfm

ISHAM: the International Society for Human and Animal Mycology
www.isham.org

JSTOR (58-3)
jstor.org

Libri Fungorum Mycological Publications (58-3)
194.203.77.76/LibriFungorum/

Mold Testing and Identification Services (58-2)
www.pioneer.net/~microbe/abbeylab.html

McCrone Research Institute is an internationally recognized not-for-profit institute specializing primarily in teaching applied microscopy. 59(4)
www.mcri.org

Mountain Justice Summer (58-3)
www.MountainJusticeSummer.org

Mycology Education Mart where all relevant mycology courses can be posted. www2.bio.ku.dk/mycology/courses/

MycKey
www.mycokey.com

The Myconet Classification of the Ascomycota
www.fieldmuseum.org/myconet

New Electronic Journal about mushrooms from Southeast Mexico (61-4)
<http://fungavera.blogspot.com>

Northeast Mycological Federation (NEMF) foray database (58-2)
www.nemfdata.org

Pacific Northwest Fungi — A peer-reviewed online journal for information on fungal natural history in Alaska, British Columbia, Idaho, Montana, Oregon and Washington, including taxonomy, nomenclature, ecology, and biogeography.
www.pnwfungi.org/

Pleurotus spp.
www.oystermushrooms.net

Rare, Endangered or Under-recorded Fungi in Ukraine (56-2)
www.cybertruffle.org.uk/redlists/index.htm

Registry of Mushrooms in Art
members.cox.net/mushroomsinart/

Robigalia provides information about field observations, published records and reference collection specimens of fungi and their associated organisms, with access to over 685,000 records (59-3).
www.cybertruffle.org.uk/robigalia

Searchable database of culture collection of wood decay fungi (56-6)
www.fpl.fs.fed.us/rwu4501/index.html

Small Things Considered — A microbe blog on microbes in general, but carries occasional pieces specifically on fungi.
schaechter.asmblog.org/schaechter/

Tree canopy biodiversity project University of Central Missouri (58-4)
faculty.cmsu.edu/myxo/

Trichomycete site includes monograph, interactive keys, a complete database, world literature, etc. (61-4)
www.nhm.ku.edu/~fungi

The TRTC Fungarium (58-1)
bbc.botany.utoronto.ca/ROM/TRTCFungarium/home.php

U.S. National Fungus Collections (BPI)
Complete Mushroom Specimen Database (57-1)
www.ars.usda.gov/ba/psi/sbml

Valhalla provides information about past mycologists, with names, dates of birth and death and, in some cases, biographies and/or portraits (59-3).
www.cybertruffle.org.uk/valhalla

Website for the mycological journal *Mycena* (56-2)
www.mycena.org/index.htm

Wild Mushrooms From Tokyo
www.ne.jp/asahi/mushroom/tokyo/

CALENDAR OF EVENTS

NOTE TO MEMBERS:

Those wishing to list upcoming mycological courses, workshops, conventions, symposia, and forays in the Calendar of Events should include complete postal/electronic addresses and submit to *Inoculum* editor Don Natvig at dnatvig@gmail.com.

October 24-27, 2013

North American Mycological Society
(NAMA)
Shepherd of the Ozarks, Arkansas

July 27-Aug 1, 2014

IUMS: International Union
of Microbiological Societies
Montreal, Canada

July/Aug 2014

Mycological Society of America 2014
East Lansing, Michigan, dates tbd.

August 3-8, 2014

International Mycological Congress (IMC10)
Bangkok, Thailand

August 9-13, 2014

American Phytopathological Society
Minneapolis, Minnesota

November 4-7, 2014

VIII Latin-American Congress of Mycology
(VIII CLAM) Colombia: the Crossroads
of Latin-America's Fungal Diversity
Centro de Convenciones Plaza Mayor,
Medellín, Colombia

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Sponsoring a gift membership in MSA offers tangible support both for the recipient of the membership as well as for mycology in general. Providing both *Mycologia* and *Inoculum*, a gift membership is an excellent way to further the efforts of our mycological colleagues, especially those who cannot afford an MSA membership. In addition to a feeling of great satisfaction, you also will receive a convenient reminder for renewal of the gift membership the following year.

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or FAX to (785) 843-1274, Attn: Processing Department

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The Society is extremely grateful for the continuing support of its Sustaining Members. Please patronize them and, whenever possible, let their representatives know of our appreciation.

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(607) 273-0508
info@mycotaxon.com

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PO Box 98
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(920)748-5125

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Kittanning, PA, 16201
(724)543-3948
mwach@sylvaninc.com

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Dept Head, Plant Pathology
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(507) 663-7631
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You are encouraged to inform the Membership Committee (D. Jean Lodge, Chair, djlodge@caribe.net) of firms or foundations that might be approached about Sustaining Membership in the MSA. Sustaining members have all the rights and privileges of individual members in the MSA and are listed as Sustaining Members in all issues of *Mycologia* and *Inoculum*.

REMINDER: MSA Directory Update

Is your information up-to-date in the MSA directory? The Society is relying more and more on email to bring you the latest MSA news, awards announcements and other timely information, and our newsletter. To ensure that you receive Society blast emails and the *Inoculum* as soon as it comes out, and so that your colleagues can keep in touch, please check the accuracy of your email address and contact information in the online directory. This can be accessed via our web site at www.msafungi.org. If you need assistance with updating your membership information, or help with your membership log-in ID and password, please contact Kay Rose, Association Manager at Allen Press, at krose@allenpress.com.

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