Bibliography

Eberhard O. Voit
Books


Articles in Scientific Journals:


[14] Voit, E.O. and M.A. Savageau: Equivalence between S-systems and Volterra-


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Chapters in Books and Proceedings


September 30-October 1, 1996.


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Other Publications:


2015.


Publications as a Member of the Malaria Host-Parasite Interaction Center (MaHPIC) Consortium:


Refractory Non-Human Primate Model Hosts. Annual meeting of the American Society for Tropical Medicine and Hygiene, Atlanta, GA, November 14-17, 2016.


Variation. Annual meeting of the American Society for Tropical Medicine and Hygiene, Atlanta, GA, November 14-17, 2016.


Book Reviews


Abstracts and Conference Presentations

modeling of biological systems yields a general growth law. 182nd National Meeting of the American Chemical Society, New York, NY, 1981.


[40] Curto, R., A. Sorribas, E.O. Voit, and M. Cascante: Building up and improvement


for Mathematical Biology, Oaxtepec, Morelos, Mexico, 1995.


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[107] Voit, E.O.: Biomedical Informatics, Computational Biology, Systems Biology — If we don’t know what it is, how can we teach it? Southern Regional Conference on Statistics, Jekyll Island, GA, June 8-11, 2003.


[112] K.J. Sims, F. Alvarez-Vasquez, Y.A. Hannun, and E.O. Voit: Targeted labeling experiments refine mathematical models of the de novo sphingolipid pathway in


Conference: November 2–4, 2005, Cashiers, NC.


Beach, CA, October 5-7, 2007.


[187] Fonseca, L.L., C. Sanchez, J. Wu, H. Santos and E. O. Voit: Modeling the trehalose cycle in Saccharomyces cerevisiae based on 13C-NMR data of


[197] Voit, E.O.: Current and future roles of statistics in dynamical biological pathway analysis. Minisymposium on Integration of Numerical and Statistical tools in
Computational Biology, SIAM Conference on the Life Sciences Meeting, Montreal, Canada, August 4 - 7, 2008.


[210] Voit, E.O.: Parameter estimation revisited (again!): Low SSE and speed are not enough. 11th International Conference on Molecular Systems Biology (ICMSB 2009), Max Planck Institute and Chinese Academy of Sciences, Shanghai, June 20-25, 2009.


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Media Coverage:


Invited Conference Speaker


[6] S-system Modeling of Dynamical Networks. Workshop on Dynamics of Networks,


Biochemistry, Barcelona, Spain, 1994.


[27] Three-day short course on power-law modeling for doctoral students. Gulbenkian Institute, Oeiras, Portugal, October 1-3, 1998.


[33] Functional integration of genomic and metabolic data. Cambridge Healthtech


[43] Biomedical Informatics, Computational Biology, Systems Biology —If we don’t know what it is, how can we teach it? Southern Regional Conference on Statistics, Jekyll Island, GA, June 8-11, 2003.


[59] Systems modeling. First International Conference of AB3C, the Brazilian
Association for Bioinformatics and Computational Biology. Caxambu, Brazil, October 4-7, 2005.


[62] Teaching Interdisciplinary Courses in Integrative Biology, 2006 Systems Biology Symposium, National Taiwan University, Taipei, Taiwan, 18 January 2006.

[63] Key Note Address: Topics in Systems Biology, 2006 Systems Biology Symposium, National Taiwan University, Taipei, Taiwan, 18 January 2006.


[66] Biological Systems Large and Small, 20th Anniversary Symposium of the Institute for Systems Research, University of Maryland, College Park, Maryland, April 13-14, 2006.


[70] Introduction. Strategic Planning Workshop: Integrative BioSystems Institute, October 16-17, Chateau Élan, GA.


[80] Pathway modeling in ill-defined biochemical systems, BESC Workshop on Biofuel Related Modeling, Atlanta, GA, October 9, 2007.


[85] Introduction to analyzing biological systems with canonical models. 10th


[97] Mathematical modeling of monolignol biosynthesis, BioEnergy Science Center


[102] The Georgia Research Alliance from the Viewpoint of Eminent Scholars. Meeting of the Georgia Research Alliance and the University of Texas at Dallas, November 2, 2009.


[105] The Role of Systems Modeling in Drug Discovery and Predictive Health. 5th Annual Computational and Theoretical Biology Symposium, Rice University, Houston, TX, December 4 – 6, 2009.


[118] Computational systems biology: From simple models to system simulation and the discovery of design principles. German Conference on Bioinformatics, Weihenstephan, September 7-9, 2011.


[121] Effects of pesticides on dopamine metabolism: Implications for sleep research. 8th International Workshop on Computational Neuropsychiatry, Munich, Germany, May 11-12, 2012.


[124] Introduction to systems biology. 2012 Winter School in Mathematical and Computational Biology, St. Lucia, Queensland, Australia, 2-6 July 2012.

[125] Pathway analysis. 2012 Winter School in Mathematical and Computational Biology, St. Lucia, Queensland, Australia, 2-6 July 2012.


[130] A Heuristic Neurochemical Mobile and Interaction Model of Brain Homeostasis and Addiction. 9th International Workshop on Computational Neuropsychiatry, Munich, Germany, May 5-6, 2013.


[134] The challenge of infectious disease modeling. Workshop “From Within Host Dynamics to the Epidemiology of Infectious Disease.” Mathematical Biosciences Institute, Ohio State University, Columbus, OH, April 7-11, 2014.


[136] Problem-Based Learning Modules For Systems Biology, HHMI Professors’


[141] Computational Systems Biology, Disease Simulators, and Personalized Medicine, GRA Academy of Eminent Scholars, Atlanta, October 30, 2014.


[151] Dynamic Models in the Malaria Host Pathogen Interaction Center, DARPA Investigator Meeting, Atlanta, GA, April 18, 2016.


Workshops Taught


**Seminars**

1983 Cybernetics Program, Universität Köln
Department of Microbiology and Immunology, University of Michigan
Division of Theoretical Medicine, Universität Köln (Series of three seminars)

1984 Zoologisches Institut, Universität Köln
Landwirtschaftliches Institut, Universität Bonn
Department of Biometry, Medical University of South Carolina

1985 Department of Chemical Engineering, University of Michigan

1986 Department of Microbiology and Immunology, University of Michigan
Department of Mathematics, Pomona College
Department of Biometry, Medical University of South Carolina (two seminars)

1987 Department of Statistics and Biometry, Emory University, Atlanta, Georgia
Department of Statistics, University of Georgia, Athens, Georgia
South Carolina Youth Academy of Sciences (Workshop)
Department of Biometry, Medical University of South Carolina

1988 U.S. Department of Agriculture, Forest Service, Charleston,
South Carolina
Sigma Xi Society, Charleston Chapter
National Seminar on Dynamical Systems, Akademie der Wissenschaften der DDR, Berlin, GDR
Fachhochschule für Medizinische Informatik, Heilbronn, Germany
Zoologisches Institut der Universität Köln, Köln, Germany
Department of Biometry, Medical University of South Carolina

1989 Division of Biometrics, Food and Drug Administration, Washington, D.C.
Center for Drug Evaluation and Research, Food and Drug Administration, Washington, D.C.

1990 Department of Biometry, Medical University of South Carolina
Department of Biostatistics, University of South Carolina

1991 Department of Biostatistics, Epidemiology, and Systems Science, Medical University of South Carolina
Board of Trustees, Medical University of South Carolina
Fachbereich Mathematik/Informatik, Universität Osnabrück, Germany
Office of Public Relations, Medical University of South Carolina

1992 Department of Biostatistics, Epidemiology, and Systems Science, Medical University of South Carolina
Honeywell, Sensor and System Development Center
South Carolina High School Teacher Association

1993 Division of Modeling, Cooperative Research Center for Temperate Hardwood Forestry, Hobart, Tasmania

1994 CSIRO Forestry and Cooperative Research Center for Temperate Hardwood Forestry, Hobart, Tasmania
CSIRO Forestry, Headquarters, Canberra, Australia
Board of Trustees, Medical University of South Carolina
Department of Biometry and Epidemiology, Medical University of South Carolina

1996 Mu Sigma Rho Student Career Development Seminar, Medical University of South Carolina
Department of Environmental Health Sciences, School of Public Health, University of South Carolina
Catalan Biological Society, Universitat de Lleida, Departament de Ciències Mediques Bàsiques

1999 Department of Biometry and Epidemiology, Medical University of South Carolina
Department of Pharmacology,
Medical University of South Carolina

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Medical University of South Carolina
Department of Biometry and Epidemiology,
Medical University of South Carolina

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Medical University of South Carolina
Marine Biomedicine Program,
Medical University of South Carolina
Metabolic Pathway Group
Monsanto/Renessen, St. Louis
Graduate School Exposure Program
Medical University of South Carolina
Departments of Pharmaceutical Sciences and Pharmacy Practice,
Medical University of South Carolina

2002  Department of Molecular Cell Biology
Georgia Institute of Technology
Department of Chemistry and Biochemistry
University of Lisbon, Portugal
BioTechnology Institute
University of Minnesota
Proteomics Group
Medical University of South Carolina

2003  Department of Bioinformatics
University of Michigan
Department of Biomedical Engineering
Georgia Institute of Technology
Marine Biomedicine Program
Medical University of South Carolina
Computer and Computational Sciences & Bioscience
Los Alamos National Laboratories

2004  Proteomics Group
Medical University of South Carolina
Department of Mathematics
Clemson University
Department of Biostatistics, Bioinformatics and Epidemiology
Medical University of South Carolina
Department of Biology, National Dong Hwa University,
Hua Lien, Taiwan
Bioinformatics and Computational Biology Seminar
Georgia Institute of Technology
Bioinformatics Group
North Georgia Technical College
Computational Biology Center
University of Georgia
Agricultural University
Ás, Norway

2005 Resource Centers for Minority Aging Research
SC Cooperative for Healthy Aging in Minority Populations
Charleston, SC
Seminar for Problem-Based Learning Group
Georgia Institute of Technology
Department of Bioengineering
University of Illinois at Urbana-Champaign
School of Applied Physiology
Georgia Institute of Technology
Center for Nonlinear Science
Georgia Institute of Technology
Bioinformatics Program
Gulbenkian Institute, Oeiras, Portugal
Ludwig-Maximilian University
Munich, Germany

2006 School of Mathematics
Georgia Institute of Technology
Proteomics Center
Medical University of South Carolina
Bioinformatics and Computational Biology Program
Georgia Institute of Technology
Center for Nutrient Gene Interactions
University of Alabama, Birmingham, AL
Department of Biostatistics, Bioinformatics, and Epidemiology
Medical University of South Carolina
Bioinformatics Group
North Georgia Technical College

2007 Computational and Life Science Initiative
Emory University
Integrative BioSystems Institute
Georgia Institute of Technology
Department of Biostatistics
Texas A & M University
Presentation to King Abdullah University of Science and Technology
Delegation, Georgia Institute of Technology
Lehrstuhl für Physik
Ludwig Maximilians Universität München
Instituto de Tecnologia Química e Biológica
Oeiras, Portugal
Department of Chemistry
Appalachian State University
Instituto de Engenharia de Sistemas e Computadores Investigação e Desenvolvimento, Lisbon, Portugal

2008 Center of the Study of Biological Systems
Georgia Institute of Technology
Department of Bioinformatics and Computational Biology
M.D. Anderson Cancer Center, Houston, TX
Department of Chemistry and Biochemistry,
Georgia Institute of Technology
Trinity Presbyterinan Church Men’s Breakfast
Systems Biology Group, Life Science University,
Ås, Norway
Lehrstuhl für Genomorientierte Bioinformatik, Helmholtz Zentrum München, Germany
Bioinformatics Colloquium, Lehrstuhl für Physik
Ludwig Maximilians Universität, München, Germany
Institute for Systems Biology,
Shanghai University, Shanghai, PRC
VHA Georgia Hospital Association
Department of Chemical and Biomolecular Engineering,
Georgia Institute of Technology

2009 Computational Science and Engineering Division
Georgia Institute of Technology
Center for Computational Biology, University of Georgia

2010 School of Industrial and Systems Engineering
Georgia Institute of Technology
Szent Györgyi Lecture, Mayo Clinic, Rochester, MN
Systems Biology Group, University of Coimbra, Portugal
Department of Mathematics, Christian College of Madras, Chennai, India
Division of Biostatistics, Moffitt Cancer Center, Tampa, FL

2011 Center for Computational Biology, University of Georgia
Directorate of Biological Sciences, National Science Foundation, Washington, DC
Distinguished Lecture, Department of Mathematics, Georgia State University

2012 Samuel Nobel Foundation, Aardmore, OK
NIEHS PD-CERC Investigator Meeting, Atlanta, GA
Center for Cystic Fibrosis, Emory University
NIAID Malaria Investigator Meeting, Atlanta, GA
Division of Individualized Medicine, Mayo Clinic, Rochester, MN
Division of Bioinformatics, Medical University of South Carolina

2013  Biochemistry and Redoc Biology Center, University of Nebraska, Lincoln, NE
Integrative BioSystems Institute, Georgia Tech, Atlanta, GA
Biomathematics Seminar, Florida State University, Tallahassee, FL

2014  Department of Biostatistics, University of Louisville
Universidad Nacional Autónoma de Mexico, Morelos, Mexico (Video-Seminar)
BioSys Doctoral Program, Universidade de Lisboa, Lisboa, Portugal
Department of Biological Engineering, Utah State University, Logan, UT

2015  Plant Research Laboratory, Michigan State University
Department of Bioengineering, University of Texas at Dallas
ETH Zürich, Switzerland
Computational Systems Biology Group, Basel, Switzerland
College of Pharmaceutical Science, Korea University
Chung Nam University, Korea
Korea Advanced Institute of Science and Technology
Stony Brook University

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Center for Innovative Engineering, University of Texas at Dallas
Otsuka Pharmaceuticals, Atlanta
Institute for Biodiscovery, University of North Texas