

# Jessica Carol Kissinger, Ph.D.

Professor of Genetics  
Adjunct in Computer Science  
Director, Institute of Bioinformatics

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## CONTACT INFORMATION

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Laboratory URL: <http://mango.ctegd.uga.edu/jkissingLab/>  
ResearcherID: <http://www.researcherid.com/rid/E-9610-2010>  
Google Scholar: <http://scholar.google.com/citations?user=YOV5QAAAAJ&hl=en>

### **University of Georgia Affiliations**

Member, Center for Drug Discovery since 2010  
Member, Center for Tropical and Emerging Global Diseases since 2002

## EDUCATION

1989-1995 Ph.D., Molecular, Cellular and Developmental Biology. Minor: Genetics.  
Indiana University, Bloomington, IN  
Advisor: Professor Rudolf Raff  
1985-1989 A.B. *cum laude*, University of Chicago, Chicago, IL  
1984-1985 George Washington University, Washington, DC

## ACADEMIC & ADMINISTRATIVE APPOINTMENTS

2012 - Professor, Department of Genetics, University of Georgia, Athens GA  
2011 - Director, Institute of Bioinformatics, University of Georgia, Athens GA  
2007 - Adjunct Appointment, Department of Computer Science, UGA, Athens GA  
2007-2012 Associate Professor, Department of Genetics, University of Georgia, Athens GA  
2002-2007 Assistant Professor, Department of Genetics, University of Georgia, Athens GA  
2000-2002 Lecturer, Computational Biology, University of Pennsylvania, Philadelphia, PA  
1998-2000 Post-doctoral Fellow, University of Pennsylvania, Philadelphia, PA  
Mentor: David S. Roos, Ph.D.  
1996-1998 Post-doctoral Fellow, Centro de Pesquisas René Rachou - FIOCRUZ, Belo Horizonte, Brazil, Mentors: Antoniana U. Krettli, Ph.D. and Rodrigo Corrêa Oliveira, Ph.D.  
1995-1996 Post-doctoral Fellow, National Institutes of Health, LPD, Bethesda, MD  
Mentor: Thomas F. McCutchan, Ph.D.

## ACADEMIC AWARDS AND FELLOWSHIPS

2016 Richard F. Reiff Internationalization Award, University of Georgia, OIE  
2015-2016 SEC Academic Leadership Development Program Fellow  
2014-2017 CNPq – Science without Borders – Special Visiting Professorship  
2014 NESCent Short-term Visitor Fellowship  
2013 Faculty Excellence in Diversity Leadership Award, Univ. of Georgia, Franklin College  
2009 Creative Research Medal, University of Georgia  
2008 National Associate, National Research Council, National Academies  
2003 Young Investigator Award, 7<sup>th</sup> International Congress on Toxoplasmosis  
1998-2000 NIH Computational Biology Post-doctoral Fellowship, University of Pennsylvania  
1997-1998 CNPq Recém Doutor Fellowship, Brazil

1995-1997 Sloan/NSF Postdoctoral Fellowship in Molecular Evolution  
1995-1995 Post-doctoral Fellowship, National Institutes of Health  
1993-1995 GAANN Fellowship, Indiana University  
1990-1993 National Institutes of Health Genetics Training Grant Appointment  
1990 Bayard Franklin Floyd Memorial Summer Fellowship, Indiana University  
1990 Sears Crowell Scholarship, Indiana University  
1989 A.B. *cum laude* University of Chicago (with special honors in biology)  
1988 Richter Grant, University of Chicago  
1988 Garber-Edmondson Summer Research Fellowship, University of Chicago  
1986-1989 Dean's List, University of Chicago

## **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

Sigma Xi • AAAS • International Society for Evolutionary Protistology • Society for Molecular Biology and Evolution • American Society for Microbiology • American Society for Tropical Medicine and Hygiene • International Society for Computational Biology • American Medical Informatics Association

## **PERSONAL DEVELOPMENT ACTIVITIES**

2013 Managing Campus Conflict in Higher Ed, UGA System, Jekyll Island, GA  
2012 Higher Ed. Management Development Program, Harvard University, Boston, MA  
1999 Genome Informatics Course, Cold Spring Harbor, NY.  
1996 International Workshop on Molecular Epidemiology, Centers for Disease Control, Atlanta, GA.  
1990 Molecular Evolution, Marine Biological Laboratory, Woods Hole, MA.

## **SPECIAL SKILLS**

Fluent speaker of Portuguese.

## **PROFESSIONAL ACTIVITIES & SERVICE (National and International)**

### ***Advisory Board Member:***

NIH NIAID Scientific Advisory Group Member, West African International Center for Excellence in Malaria Research (2013 – Current)  
NIH (NHGRI, NIAID, NCI and others) Human Heredity & Health in Africa (H3Africa) BioNet Scientific Advisory Board (2012 – Current)  
External Advisory Committee, Louisiana Biomedical Research Network, NIH INBRE (2011 – Current)  
Genomes for Eukaryotic Microbes Steering Committee (2004 – 2009)

### ***Working Group Member:***

NIH NIAID Metadata Harmonization Working Group (2014 – Current)  
NIH NIAID GSC-BRC Clinical Metadata Working Group (2012 – Current)  
NIH NIAID Systems Biology Data Deposition/Sharing Working Group (2012 – Current)  
NIH NIAID Host Response Working Group (2013-2014)  
NIH NIAID Scientific Working Group for Genomic Sequencing Centers for Infectious Diseases (GSCID) (2009 – 2013)  
NIH NIAID Bioinformatics Resource Center Interoperability Working Group (2004 - 2009)

### ***Editorial Duties:***

Editor, Microbial Genomics (2015 – Present)  
Member, Editorial Board of Academic Editors for PeerJ (2012 – present)  
Deputy Section Editor, BMC Genomics Eukaryotic Microbes and Viruses Section (2012 – 2013)  
Associate Editor, BMC Genomics (2009 – 2012)

**Reviewer for the following Peer Reviewed Journals:**

Acta Tropica • Agricultural Research Service • American Journal of Tropical Medicine and Hygiene • Applied Bioinformatics • BioScience • BMC Bioinformatics • BMC Evolutionary Biology • BMC Genomics • Cell • Cellular Microbiology • Cellular and Molecular Life Science • Chemistry and Biology • Computational and Functional Genomics • Eukaryotic Cell • Evolution and Development • FEBS Letters • Folia Parasitologica • Genetics • Genome Biology • Genome Research • Heredity • Infection and Immunity • Infection Genetics and Evolution • International Journal of Parasitology • Journal of the College of Physicians and Surgeons Pakistan • Journal of Molecular Evolution • Journal of Parasitology • The Lancet • The Lancet Global Health • The Lancet HIV • The Lancet Infectious Diseases • Microbial Genomics • Molecular and Biochemical Parasitology • Molecular Biology and Evolution • Molecular Phylogenetics and Evolution • Molecular Microbiology • Nature • Nature Communications • Nature Genetics • Nucleic Acids Research • Parasitology • Parasite Immunology • Parasitology Research • PeerJ • Physiological Genomics • PLoS Computational Biology • PLoS Genetics • PLoS Neglected Tropical Diseases • PLoS ONE • PLoS Pathogens • Proceedings of the National Academy of Sciences • Proceedings Pacific Symposium on Biocomputing • Proteomics • Science • Science Asia • Transactions of the Royal Society of Tropical Medicine and Hygiene • Trends in Parasitology • Vaccine

**Reviewer/study section member for the following Granting Agencies/Panels:**

**National:**

NIH NIAID Aids Related Research *Ad Hoc* Member  
2003/AARR-4

NIH NSF Mathematical Biology Review Panel  
NIGMS03/NSF

NSF International Research Fellowship Program, 2005

CDRF U.S. Civilian Research and Development Foundation, 2006

NIH NIAID Special Emphasis Panel/Tropical Medicine Research Centers  
2007/01 ZAI1 GSM-M (J1)

NIH NIAID Special Emphasis Panel/International Research on Infectious Disease  
2007/05 ZAI1 GSM-M (M1) (1)

NIH Special Emphasis Panel/Enzyme and Gene Evolution  
2007/10 ZRG1 GGG-E (02) S

NIH NIAID Special Emphasis Panel/Pathogens and their Vectors  
2009/05 ZRG1 IDM-B (02) M

NIH NIAID Special Emphasis Panel/Parasitic Opportunistic Infections in AIDS  
2009/10 ZRG1 AARR-C (04) M

NIH NIAID Challenge Grant Reviewer  
2009/10 ZRG1 IDM-C (58) R

NSF Advances in Biological Informatics (ABI), 2009

NIH NIAID Special Emphasis Panel/Director's Opportunity 5 Themes Infectious Diseases B  
2010/08 ZRG1 IDM-L (55) R

NIH NIAID Pathogenic Eukaryotes Study Section *Ad Hoc* Member  
2013/01 PTHE

NIH NIAID Special Emphasis Panel/Understanding the Functions of Uncharacterized Genes in Infectious Disease Pathogens (U19)  
2013/05 ZAI1-FDS-M-M1

NIH Big Data 2 Knowledge (BD2K) Centers of Excellence (U54)  
2014/Panel ZRG1 BST-R(52)R

NIH Eager Awards (R15) Panel  
2014/10 ZRG1-GGG-R-80

NIH BioData Management and Analysis Study Section *Ad Hoc* Member  
2016/05 BDMA

**Study Section Chair**

USDA Food Safety (Animal and Plant Products) – Panel Chair  
USDA NP 108 Panel 13 – Parasitology (2011) of the USDA, ARS, NP 108

**International: () = number of proposals reviewed for this organization**

Academy of Sciences of the Czech Republic  
BPST- Conicyt- Government of Chile (3)  
Dana Lush Scholarship - Australian National Health and Medical Research Council  
King Abdullah University of Science and Technology (KAUST) Saudi Arabia  
National Research Foundation (South Africa)  
Oak Ridge Associated Universities (ORAU) Nazarbayev University, Republic of Kazakhstan  
Wellcome Trust – United Kingdom (5)  
World Health Organization (2)  
NERC – United Kingdom (1)

**UNIVERSITY SYSTEM OF GEORGIA SERVICE**

Spr 2015 – Current                      Member, Health Informatics Academic Alliance

**UNIVERSITY OF GEORGIA SERVICE**

***University-wide***

Fall 2015                                      Member, Goldwater Selection Committee  
Fall 2015                                      Member, Georgia Informatics Institute for Research and Education  
Planning Committee  
Fall 2015 – Spring 2016                      Chair, Department of Ecology PRAC Program Review Team  
Spr 2014 – Fall 2014                      Member, Finance and Administration Transition Advisory Committee  
Fall 2013 – Current                      Member, UGA Digital Research Infrastructure Development Committee  
Spr 2013 – Summer 2013                      Member, GrantSMART Project Manager Search Committee  
Spr 2012 – Spring 2013                      Member, Champions of 2020 Strategic Plan Committee  
Fall 2011 – Current                      Member, Faculty of Infectious Diseases Executive Council  
Fall 2012 – Fall 2013                      Member, Proposal Development/GrantSMART Office Working Group  
Fall 2011 – 2012                      Member, Search Committee for Georgia Advanced Computing  
Resource Center Director  
Spr 2011                                      Member, Chief Information Officer Search Committee  
Fall 2011 – Current                      Member, (Ex-Officio) Georgia Advanced Computing Resource Center  
Advisory Committee GACRC-AC  
Fall 2008 – Spring 2011                      Chair, Research Computing Advisory Committee  
Fall 2008 – Spring 2011                      Member, Chief Information Officer Advisory Cabinet  
Fall 2006 – Dec 2008                      Chair, IOB Computing Committee  
Fall 2007 – Fall 2008                      Member, James L. Carmon Scholarship Selection Committee  
Fall 2007                                      Member, RCC – OVPR Committee to Establish Sustainable Research  
Computing  
Fall 2004 – 2005                      Member, RCC – High Performance Computer Selection Committee  
Fall 2006 – 2008                      Member, Research Computing Advisory Committee

***Institute of Bioinformatics***

Fall 2014 – Spring 2015                      Chair, IOB Faculty Search Committee  
Fall 2013 – Spring 2014                      Co-Chair, IOB Faculty Search Committee  
Fall 2012 – Spring 2013                      Chair, IOB State-of-the-Art NGS Analysis Symposium Committee  
Fall 2011 – Current                      Director, Institute of Bioinformatics  
Fall 2011 – Current                      Member, OVPR Research Communications Group  
Fall 2011 – Spring 2013                      Member, IOB Executive Committee  
Fall 2011 – Spring 2012                      Chair, IOB Faculty Search Committee  
Fall 2007 – Current                      Faculty sponsor, BIGSA, IOB Graduate Student Organization  
Spr 2007 – 2008                      Member, Program Committee for Computational and Systems Biology  
Symposium

Fall 2004 – May 2008	Member, Institute of Bioinformatics Curriculum Development Committee
Sept 2002 – Aug 2003	Member, Institute of Bioinformatics Membership Committee
Sept 2003 – Aug 2003	Member, Institute of Bioinformatics Fundraising Committee

**Department of Genetics**

Fall 2015 – Spring 2016	Chair, Third Year Review Committee, Genetics Department
Fall 2013 – Spring 2014	Member, Third Year Review Committee, Genetics Department
Fall 2009 – Spring 2012	Member, Curriculum Development Committee, Genetics Department
Spr 2010	Member, Search Committee for Genetics Department Head
Fall 2007 – Sept 2009	Chair, Undergraduate Affairs Committee, Genetics Department
Fall 2007 – Sept 2009	Member Executive Committee, Genetics Department
Fall 2007 – 2008	Editor Department of Genetics Newsletter
Fall 2002 – 2007	Member, Undergraduate Affairs Committee
Spr 2005 – 2007	Member, Genetics Web Site Development Committee
Fall 2005	Member, Molecular Evolutionist Search committee
Aug 2003 – Mar 2004	Member, Evolutionary Geneticist search committee

**Other**

Spr 2015 – Current	Member, CTEGD “Way forward” committee
Fall 2013 – Spring 2014	Member, Cellular Biology Faculty Search Committee
Jun 2003 – Mar 2004	Cellular Biology/CTEGD, Orkin Eminent Scholar search committee

**TEACHING EXPERIENCE**

**Courses Delivered: \*=Developed the course**

2015	GRSH8015*	Biological Data Management – New course effective 2015
2015	BINF8070	Graduate Student Seminar
2008-2010	GENE4950*	Senior seminar on Influenza
2003-2016	GENE8940*	Genome analysis – graduate seminar/Laboratory
2004-2010	GENE4220L*	Bioinformatics and Modeling Laboratory – Undergraduate
2013-2015	BINF4/6005	Revamped – changed from introduction to programming to data handling/manipulation course including: UNIX, MySQL, Sed/AWK, R, Galaxy pipelines.
2007-2009	GENE3200	Introductory Genetics
2007-2009	GENE3200H	Introductory Genetics Honors Section
2010	GENE8930	Advanced Topics in Molecular Genetics
2003-2006	GENE8950	Molecular Evolution
2007-2013	Guest Lecturer, CBIO8500	
2006-2008	Guest Lecturer, BCMB8140	
2006-2008	Guest Lecturer, BCMB8210	
2006-2010	Guest Lecturer, BINF6001	
2000-2002	Instructor, Biol536, graduate course in Computational Biology, U. of Pennsylvania	
1999	Co-Instructor, Biol536, graduate course in Computational Biology, U. of Pennsylvania	
1998	Instructor, "Modern Methods in Systematics*" graduate course, FIOCRUZ, Brazil	
1994	Guest Lecturer, graduate course “Development and Evolution”, Indiana University	
1990	Associate Instructor, undergraduate microbiology, Indiana University.	
1989	Associate Instructor, undergraduate general biology, Indiana University	
1989	Undergraduate Teaching Assistant, microbial genetics, University of Chicago	

**Other**

Biology of Parasitism Course, Woods Hole, MA: Course lecturer (2000,2001); Course Instructor Bioinformatics module (3 weeks each -2008,2009). This is an intensive two-month summer course for training post-doctoral and advanced graduate students.

## MENTORING RELATIONSHIPS

### **Undergraduate Honor's Thesis Advisor:**

Ladson Gaddy 2004 (Currently an M.D.)

Erica Hall, also an NCUR presenter, 2007 (Currently a Research Associate at UGA)

Allyson Byrd 2012 (Currently in Graduate School – NIH Boston University Program)

Katharine Korunes, also an NCUR presenter 2013, (Currently in Graduate School at Duke)

### **Undergraduate Research Associates:**

Angel Smith, Jonathan Gardner, Fallon Hampton (REU student), Ariel Campbell, Issac Van Duys, Madeline Cozad, Lela Lassiter, Deepa Raju, Mope Oluwadare, Zubin Mehta, Dianne Wellems, Jatan Patel, Jonathan Trebble-Greening, Shaneka Smalls (REU student), Parth Sehgal, Brynn Claypoole (REU student), Katheryn Light (REU student), Alex Winkles, Jacob Fuller

### **High School Students**

Kevin Kardon – North Oconee High School (Semester-long research experience for credit) 2012

### **Other Post Graduate Education:**

#### **PREP scholar advisor for:**

<b>Transition Student</b>	<b>Placed</b>	<b>Graduate School Placement</b>
Brent Allman	Current	

#### **Masters Advisor for:**

<b>Graduate Student</b>	<b>M.S. Received</b>	<b>Current Position</b>
Joshua Bridgers	2011	Sequencing Pipeline Manager, Columbia U Med Ctr

#### **Major Doctoral Advisor for:**

<b>Graduate Student</b>	<b>Ph.D. Received</b>	<b>Current Position</b>
Nandita Mullapudi	2007	Principal Scientist & Group Leader - Next-Gen Sequencing Lab, Genotypic Technology Pvt. Ltd.
Chih-Horng Kuo (Co-advisor, Dr. Daniel Promislow)	2008	Associate Research Fellow with tenure, Academia Sinica, Taiwan
Adhemar Zerlotini (Co-advisor, Dr. Guilherme Oliveira, Brazil)	2009	Researcher, Embrapa Informática Agropecuária, Brazil
Wenyuan Xiao	Mentored 2008-2010	Graduate Student Department Biochemistry, UGA
Jenna Oberstaller	2012	Post-doc Univ. of South Florida with John Adams
Maryam Panahiazar	Mentored 2008-2011	Pursuing second Ph.D. in Computer Science at the Ohio Center of Excellence in Knowledge-enabled Computing
Sivaranjani Namasivayam	2015	Post-doctoral researcher, NIH/NIAID with Alan Sher
Ousman Mahmud	Current	Ph.D. Candidate
Shelton Griffith	Current	Ph.D. Student
Shubham Basu	Current	Ph.D. Student
Yiran Li	Current	Ph.D. Student

#### **Post-doctoral Mentor for:**

<b>Mentee</b>	<b>Period</b>	<b>Current Position</b>
Jinling Huang, Ph.D.	2002-2004	Associate Professor Eastern Carolina University
Adriana A. Oliveira, Ph.D.	2005-2006	Private sector
Abhijeet Anil Bakre Ph.D.	2006-2008	Assistant Research Scientist, UGA
Sandeep Joseph Ph.D.	2008-2009	Postdoctoral researcher, Emory University

Gregorio Cordon Ph.D.	2008-2009	Postdoctoral researcher, Tufts University
Jeremy DeBarry, Ph.D.	2008-2012	Scientific Analyst, The iPlant Collaborative
Segun Fatumo, Ph.D.	2010	H3ABioNet Visiting Research Fellow at the Wellcome Trust Sanger Institute and University of Cambridge
Satomi Kato, Ph.D.	2010-2011	Emory University
Rodrigo Baptista, Ph.D.	2015-Current	

**Visiting or Sponsored Scholars:**

	<b>Period</b>	<b>Position</b>
Jeremy DeBarry, Ph.D.	2012-2014	Assistant Research Scientists
Juliana Assis Geraldo	2014	Visiting M.S. Researcher from Brazil
Francislon Silva de Oliveira	2014	Visiting M.S. Researcher from Brazil
Rodrigo Baptista	2013	Visiting Ph.D. Researcher from Brazil
Catalina Alvarez	2012	Visiting M.S. student from Colombia
Alejandro Acosta Dávila	2012	Visiting Ph.D. student from Colombia
Turgay Ibrikci, Ph.D.	2011	Visiting Sabbatical scholar from Turkey
Eric Aguiar	2011	Visiting M.S. student from Brazil
Adhemar Zerlotini	2011	Visiting Post-doctoral researcher from Brazil
Fudong Yu, Ph.D.	2011	Visiting Researcher from China
Huayong Xu	2011	Visiting Researcher from China
Raymond Nyasa	2010	Visiting Ph.D. student from Cameroon

**Doctoral Degree Committee Service**

Mustafa Nural	Current	Department of Computer Science, Advisor John Miller
Hongye Zhou	Current	Institute of Bioinformatics, Advisor: Jeff Bennetzen
Xu Tan	Current	Institute of Bioinformatics, Advisor: Andy Paterson
Kelly Lane	Current	Department of Genetics, Advisor: Jim Leebens-Mack
Debkanta Chakraborty	Current	Institute of Bioinformatics, Advisor: Katrien Devos
Christian Schwoyer	Current	Department of Genetics, Advisor: Katrien Devos
Kathleen Pieper	Current	Department of Genetics, Advisor: Kelly Dyer
Xi Gu	Current	Institute of Bioinformatics, Advisor: C-J Tsai
Megan Behringer	2015	Department of Genetics, Advisor: Dave Hall
Christine Ewers	2015	Department of Genetics, Advisor: John Wares
Jennifer Olmstead	2015	Department of Genetics, Advisor: Mike McEachern
Jingping Li	2014	Institute of Bioinformatics, Advisor: Andy Paterson
Eric Talevich	2013	Institute of Bioinformatics, Advisor: Natarajan Kannan
Rui Wang	2011	Department of Computer Sciences, Advisor: John Miller
Yupeng Wang	2011	Institute of Bioinformatics, Advisor: Andrew Paterosn
Kelly Storm	2010	Department of Computer Sciences, Advisor: Eileen Kramer
Laura Williams	2009	Microbiology, Advisor: Anne Summers
Sarah Jardeleza	2009	Department of Plant Biology, Advisor: Mark Farmer
Haibao Tang	2009	Department of Plant Biology, Advisor: Andy Paterson
Lixing Yang	2009	Department of Genetics, Advisor: Jeff Bennetzen
Enid McKinley	2009	Department of Population Health, Advisor: Mark Jackwood
Zhiming Wang	2008	Department of Computer Sciences, Advisor: John Miller
Vanessa Corby	2007	Genetics, Advisor: Daniel Promislow
Reed Cartwright	2006	Department of Genetics, Marjorie Asmussen
Jolly Mazumdar	2006	Cellular Biology, Advisor: Boris Streipen
Shipra Vaishnav	2005	Cellular Biology, Advisor: Boris Streipen
Ritesh Tandon	2005	Veterinary Medicine, Advisor: Ray Kaplan
Renyi Liu	2005	Genetics, Advisor: Jeff Benetzen
Brad Chapman	2004	Plant Sciences, Advisor: Andy Patterson

### **Masters Degree Committee Service**

Juber Patel	2013	Institute of Bioinformatics, Advisor: Liming Cai
Akshay Chodhe	2013	Computer Science, Advisor: John Miller
Alok Dhamanaskar	2012	Computer Science, Advisor: John Miller
Chaitanya Guttula	2012	Computer Science, Advisor: John Miller
Roxana Cintron-Moret	2011	Department of Cellular Biology, Advisor: Silvia Moreno
Sumedha Ganjoo	2010	Department of Computer Science, Advisor: John Miller
Ryan Brown,	2007	Entomology, Advisor: Don Champagne
Ke Li	2005	Computer Science, Advisor: John Miller
Nivedita Kaluskar	2005	Computer Science, Advisor: Eileen Kramer
Yanqi Su	2005	Computer Science, Advisor: Eileen Kramer

### **Other**

External examiner: Ph.D. Defense Simon Fraser University

### **NATIONAL & INTERNATIONAL TRAINING & WORKSHOPS DELIVERED:**

2015	Instructor, EuPathDB Workshop, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil
2015	Instructor, EuPathDB Workshop, 5th International Conference of Research in <i>Plasmodium vivax</i> Malaria, Bali, Indonesia
2015	Instructor, EuPathDB Webinar, Faculty of Medical Sciences, University of Srijaywardenepura, Sri Lanka
2014	Instructor, EuPathDB Webinar, EMBO Next-generation Sequence Course, Tunisia
2014	Instructor, EuPathDB Workshop, International <i>Giardia</i> and <i>Cryptosporidium</i> Congress, Uppsala, Sweden
2013	Instructor, EuPathDB Workshop, Henan Agriculture University, Zhengzhou, China
2013	Instructor, EuPathDB Workshop, International Society for Computational Biology and African Society for Bioinformatics and Computational Biology 2013 Africa Conference, Casablanca, Morocco
2012	Instructor, Biology of Parasitism Course, Juquehy, Brazil
2012	Instructor, Genomic Database Workshop, IV International <i>Giardia</i> and <i>Cryptosporidium</i> Conference, Wellington, New Zealand
2011	Instructor, Workshop on Mining and Utilizing Protist Genomics Data with the EuPathDB Family of Databases, 20 <sup>th</sup> Latin American Congress on Parasitology and 25 <sup>th</sup> Colombian Congress on Parasitology and Tropical Medicine, Bogotá, Colombia
2011	Instructor, Genomics in Infectious Diseases: A Public Tool Workshop, National University of Colombia, Bogotá, Colombia
2011	Instructor, EuPathDB Workshop, University of Quindio, Armenia, Colombia
2010	Instructor, PlasmoDB Workshop, XII Brazilian Meeting on Malaria Research, Ouro Preto, Brazil
2010	Instructor, EuPathDB Workshop, Shanghai Center for Bioinformatics, Shanghai, China
2010	Instructor, EuPathDB Workshop, International Coccidiosis Conference, Guangzhou, China
2010	Instructor, Caribbean Training Program on Bioinformatics, St. Augustine, Trinidad
2007	Instructor, ApiDB Workshop, Belo Horizonte, Brazil
2007	Instructor, Institute of Bioinformatics Summer Workshop, UGA
2006 - 2015	Instructor, ApiDB/EuPathDB-Bioinformatics Resource Center Workshop, UGA
2005	Instructor, WHO/TDR Asian Course on Bioinformatics for Tropical Disease Research, ICGEB, New Delhi, India
2004	Course director - (West African Biotechnology Workshop Series) WABWS 04 Workshop: Applied Malaria Bioinformatics, Ibadan, Nigeria
2003	Lecturer, "Bioinformatics – Writing Software for Genome Research", Cold Spring Harbor Laboratories, NY
2002 - 2003	Facilitator, WHO/TDR Latin American Course on Bioinformatics for Tropical Disease Research, Sao Paulo, Brazil



- 2002 Instructor, "Applied Malaria Bioinformatics", Gulbenkian Training Programme in Bioinformatics, Oeiras, Portugal
- 2002 Instructor, WHO/TDR Asian Course on Bioinformatics for Tropical Disease Research, ICGEB, New Delhi, India
- 2000 - 2001 Course Assistant, "Bioinformatics - Writing Software for Genome Research", Cold Spring Harbor Laboratories, NY
- 2000 - 2001 Instructor, MR4-Malarial Bioinformatics Workshop, ATCC, Manassas, Virginia
- 2000 - 2009 Instructor, Biology of Parasitism - Bioinformatics Workshop, Woods Hole, MA
- 2000 Teaching Assistant, Workshop Database design and Development for Genomics Research, Madison, WI
- 1999 Trainer, WHO Parasite Genomes Bioinformatics Workshop, Hinxton, England.

## MEETINGS OR WORKSHOPS ORGANIZED

- 2016 Member, Galaxy Community Conference GCC2016, Scientific Planning Committee, Bloomington, Indiana, June 25-29, 2016
- 2015 Member, Organizing Committee, Big Data Challenges in the Life Sciences, Athens, Georgia, October 12, 2015
- 2015 Organizer 1<sup>st</sup>-10<sup>th</sup> Annual EuPathDB 4-Day Workshop. June, 2006- 2015, Athens, Georgia
- 2014 Member, Scientific Committee, 2014 Galaxy Community Conference, Baltimore, Maryland, June 30 – July 2, 2014
- 2013 Symposium Session Organizer "Microbial Eukaryotic Genome Evolution", Society for Molecular Biology and Evolution, July 7-11, 2013, Chicago, Illinois
- 2013 Member, Scientific Committee, IV International *Giardia* and *Cryptosporidium* Conference, Wellington, New Zealand, February 2012
- 2009 Organizer, (West African Biotechnology Workshop Series) Protozoan Pathogens Comparative Genomics Workshop, Ibadan, Nigeria, December 14-18, 2009
- 2009 Organizer, "Getting the Most out of Bioinformatics Resources – Introduction to Resources that can Facilitate Your Research" Symposium, 58<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Washington D.C., November 18-22, 2009
- 2009 Member, Scientific Committee, and Organizer, "The Use of Genome Database Resources" session, III International *Giardia* and *Cryptosporidium* Conference, Terni, Italy, October 11-15, 2009
- 2008 Organizer, 1<sup>st</sup> French American Kavli Frontiers of Science Meeting, Roscoff, France, November 20-22, 2008
- 2007 Co-Organizer, American Society of Microbiology -2<sup>nd</sup> Pathogenomics Meeting. June 24-28, 2007 Halifax, Nova Scotia, Canada (Cancelled by ASM last minute)
- 2006 U.S. Co-chair, Organizing committee, 12th annual German-American Frontiers of Science (GAFoS) symposium, sponsored by the Alexander von Humboldt Foundation and the National Academy of Sciences, USA. June 2006, Germany
- 2005 Member, Organizing committee, 11th annual German-American Frontiers of Science (GAFoS) symposium, sponsored by the Alexander von Humboldt Foundation and the National Academy of Sciences, USA. June 2-4, 2005, Irvine California.
- 2004 Co-Organizer, American Society of Microbiology - Functional genomics and bioinformatics approaches to infectious disease research. October 6-9, 2004 Portland, Oregon
- 2004 Member, Organizing committee, special NSF funded workshop on "Frontiers in

Genomics: Insights into protist evolutionary biology". University of Iowa, May 19-21, 2004.

## RESEARCH INTERESTS

- Parasite genome evolution
- Molecular evolution
- Lateral and Intracellular gene transfer
- Data integration & Data mining
- Data sharing/ knowledge discovery
- Human Computer Interactions/Intuitive Design

## GRANT SUPPORT (\$20.2M in Direct Costs 2003-2019)

### **Current**

Bill & Melinda Gates OPP1151701 "Systematically comparison and analysis a reference genome sequences and functional annotation for human-infecting *Cryptosporidium* species"

5/6/2016 – 5/31/2017; Role:PI

Total direct costs for UGA = \$104,522

DARPA-15-21-THoR-FP-022 "THoR's HAMMER: Host Acute Model of Malaria to study Experimental Resilience."

4/1/2016 – 3/31/2019; Role Co-I (Galinski - PI, Emory University)

Total direct costs for UGA \$1.3M/3 yrs Total DARPA award \$6.4M/3 yrs

Wellcome Trust 108443/Z/15/Z "Cost-effective community access to integrated information for microbial eukaryotic pathogen research"

1/1/2016 – 12/31/2019, Role: Co-PI (Hertz-Fowler, PI, University of Liverpool)

Total direct costs for UGA £285,225 (\$445,000)/4 yrs Total Trust award £1,517,482 (~\$2.37M)/4 yrs

NIH HHSN272201400030C "The Eukaryotic Pathogen Bioinformatics Resource Center"

09/30/2014 – 09/29/2019, Role: Co-Director (Roos, UPENN and Kissinger Joint Directors)

Total direct costs for UGA \$4,798,216/5 yrs Total NIH award \$23.4M/5 yrs

NIH HHSN272201200031C, "An Integrated Approach to Understanding Host-Pathogen Interactions - The Malaria Host-Pathogen Interaction Center"

11/01/2012 – 9/29/2017, Role: Co-PI (Galinski PI, Emory)

Total direct costs for UGA = \$2,526,499/5 yrs Total NIH award \$19.7M/5 yrs

CNPq 400278/2014-6, "Bolsa Pesquisador Visitante Especial – PVE 2014"

2014-2016, Role: Foreign PI (Oliveira PI, CPqRR Brazil)

Total direct costs = ~\$237,000/3 yrs

NIH 1R03AI115339 "Resolution of Genome Duplications in *Toxoplasma gondii*"

11/10/2014 – 10/31/16, Role: PI

Total direct costs = \$100,000/2 yrs

### **Past**

NIH 2D43 TW007012, "Infectious Disease Genomics and Bioinformatics Training in Brazil"

09/26/2009 – 12/31/2015, Role: PI

Total direct costs = \$616,234/5 yrs

Burroughs Wellcome Fund – "Travel Assistance for Bioinformatics Training at UGA"

08/15/2011 - 08/1/2015, Role: PI

Total direct costs = \$10,000

NIH HHSN272200900038C, "The Eukaryotic Pathogen Bioinformatics Resource Center"  
10/01/2009 – 09/30/2014, Role: Co-PI  
Total direct costs for UGA = \$3,051,700/5 yrs Total NIH Award \$17.9M/5 yrs

NIH 1 R01 GM093132, "Integrative Tools for Protozoan Parasite Research"  
04/01/2010 – 03/31/2014, Role: Co-PI  
Total direct costs for UGA = \$290,924/4 yrs

Bill and Melinda Gates Foundation "TrypDB: A Bioinformatics Tool for Target Discovery Research on Trypanosomatid Parasites"  
11/01/2008 – 10/31/2013, Role: Co-PI  
Total direct costs for UGA = \$360,259/5 yrs

USDA/CSREES 2009-01550, "*Sarcocystis neurona* Genome Project"  
09/01/2009 – 08/31/2013, Role: Co-PI  
Total direct costs for UGA = \$104,369

NIH R01 AI068908, "Genome Evolution, Innovation and Adaptation in the Apicomplexa"  
02/01/2007- 01/31/2013, Role: PI  
Total direct costs = \$1,054,077

NSF 0821263, "MRI: Acquisition of a Computer Cluster for Bioinformatics Research at UGA"  
08/15/2008 – 07/31/2011, Role: Co-PI  
Total direct costs for UGA = \$796,822

CDC/UGA Collaborative Seed Grant – "Development of Simple, Field-Usable Molecular Tools for the Diagnosis of Malaria"  
01/01/2009 – 12/31/2010, Role: Co-PI  
Total direct costs for UGA = \$50,000

USDA 0624492, "Genome Sequencing and Comparative Analysis of Coronaviruses"  
09/01/2006-11/14/2010, Role: Co-PI  
Total direct costs for UGA = \$12,000

NIH 5D43 TW007012, "Informatics Training for Brazilian Vector and Parasitic Diseases"  
06/01/2004-06/30/2010, Role: PI  
Total direct costs = \$1,145,044//5 yrs

NIH R01 AI065246, "Informatics Analysis of *Cryptosporidium* Gene Expression"  
05/01/2006 – 12/31/2009 PI: M. Rutherford, Role: Co-PI  
Total direct costs = \$165,694

NIH Contract N01-AI-40037, "Integrated Databases for Apicomplexan Pathogens"  
7/19/2004 – 9/30/2009, Role: Co-PI  
Total direct costs for UGA = \$2,341,650/5 yrs Total NIH Award \$14.6M/5 yrs

NIH R01 AI058515, "PlasmoDB"  
03/01/2004 – 7/31/2009, Role: Co-PI  
Total direct costs for UGA = \$330,459

NIH Contract # HHSN26620040001C "*Cryptosporidium* ESTs"  
08/01/2007 – 10/31/2008  
Total direct costs for UGA = \$121,636

American Heart Association Career Development Award 0330338N, "Building a *Trypanosoma cruzi* Genome Resource: Integrating Diverse Genomic Datasets to Facilitate Basic Research"  
 01/01/03 – 12/31/06, Role: PI  
 Total direct costs = \$236,364

Maryland Sea Grant/NOAA SA7528068-I, "Identification of Candidate Genes for Chemotherapeutic and/or Genetic Intervention against Dermo Disease Using Expression Sequence Tags (EST)"  
 06/01/2004 – 5/31/2005, Role: Co-PI  
 Total direct costs = \$6,794

PhRMA Foundation 0261168-01, "Pattern Finding and Phylogenetic Restriction in *Trypanosoma cruzi*"  
 01/01/03 – 12/31/03, Role: PI  
 Total direct costs = \$30,000

University of Georgia Research Foundation, "Did *Cryptosporidium parvum* contain a Plastid?"  
 01/01/03 – 12/31/03, Role: PI  
 Total direct costs = \$6,335

Sloan Foundation/National Science Foundation (BIR-9510803), "Evolution of *Plasmodium*"  
 1995-1997  
 \$80,000

FAPEMIG (Fundação de Amparo À Pesquisa do Estado de Minas Gerais) (CBS-944/97), "Estudo das Relacoes Evolutivas entre os Haemosporidia (Phylum: Apicomplexa) com enfase no *Plasmodium* (Study of Evolutionary Relationships among Haemosporidia (Phylum: Apicomplexa) with emphasis on *Plasmodium*."  
 Awarded: 1997 \$22,722.66 Funds never received due to financial crisis in Brazil.

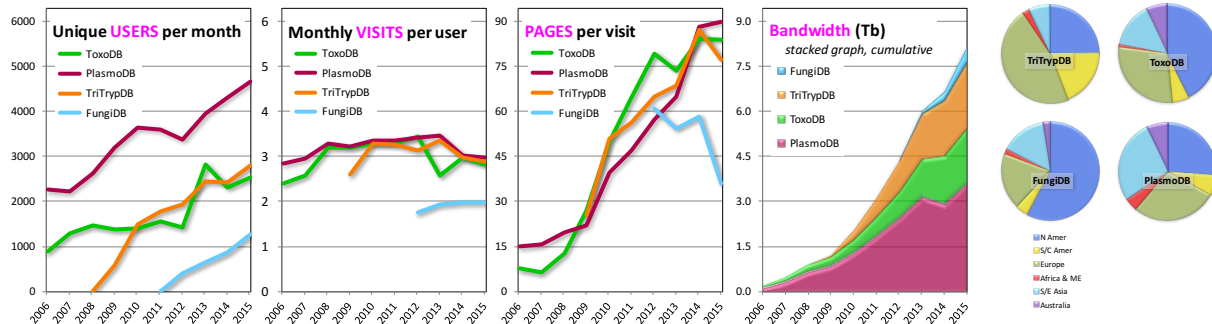
Sun Microsystems AEG hardware grant to equip bioinformatics training classroom.  
 Grant Number EDUD-7824-020142-US 2001 \$53,222

## SCIENTIFIC RESEARCH PRODUCTS

### Databases

Resource URL	Launch Date	Funding	Google Scholar Citations as of 10-5-2015
<a href="http://PlasmoDB.org">PlasmoDB.org</a>	2000	BWF 100-1584; NIH R01-058515; NIH N01-AI-40037; HHSN272200900038C; HHSN272201400030C	3,600
<a href="http://ToxoDB.org">ToxoDB.org</a>	2002	NIH N01-AI-40037; HHSN272200900038C;	1,438
<a href="http://CryptoDB.org">CryptoDB.org</a>	2004	NIH N01-AI-40037; HHSN272200900038C; HHSN272201400030C	362
<a href="http://ApiDB.org">ApiDB.org</a>	2003	NIH N01-AI-40037; (renamed EuPathDB.org in 2007)	245
<a href="http://EuPathDB.org">EuPathDB.org</a>	2007	HHSN272200900038C; HHSN272201400030C	527
<a href="http://OrthoMCL.org">OrthoMCL.org</a>	2005	NIH HHSN272201400030C;	2,723
<a href="http://GiardiaDB.org">GiardiaDB.org</a>	2007	NIH N01-AI-40037; HHSN272200900038C; HHSN272201400030C	385
<a href="http://TrichDB.org">TrichDB.org</a>	2007	NIH N01-AI-40037;	208
<a href="http://TriTrypDB.org">TriTrypDB.org</a>	2008	Bill & Melinda Gates 50097; Wellcome Trust 085822 & 099198; Infrastructure currently supported HHSN272201400030C	906
<a href="http://SchistoDB.net">SchistoDB.net</a>	2009	NIH 2D43 TW007012; CNPq 304138/2014-2	90
<a href="http://AmoebaDB.org">AmoebaDB.org</a>	2010	HHSN272200900038C; HHSN272201400030C	128
<a href="http://MicrosporidiaDB.org">MicrosporidiaDB.org</a>	2010	HHSN272200900038C; HHSN272201400030C	62
<a href="http://PiroplasmaDB.org">PiroplasmaDB.org</a>	2011	HHSN272200900038C; HHSN272201400030C	30

In aggregate, this family of DB Web sites receives ~6.5 million non-robot/web crawler hits/month, from >10,000 unique users, in >100 countries (difficult to compile, as many users gain access via remote servers). The average user returns ~3.4 times per month. Annual bandwidth is > 1Tb delivered data.



### Peer-reviewed Publications (Google Scholar H-index = 43 i10-index 75)

1. Sivarajani Namasivayam, Wenyan Xiao, Erica M. Hall, Satomi Kato and Jessica C. Kissinger. The Elusive and Highly-Unusual Mitochondrial Genome Sequence of *Toxoplasma gondii*. (In prep)
2. Cheng Sun, Sivarajani Namasivayam, Assiatu B Barrie, Wenyan Xiao, Erica M. Hall, Jenna Oberstaller, Cedric Feschotte, Jessica C Kissinger and Ellen J Pritham. Evolutionary Fate and Consequence of >11,000 Nuclear-Integrated Organellar DNAs in the zoonotic Parasite, *Toxoplasma gondii*. (In prep, to be submitted to PNAS)
3. Complete genome sequence of the malaria parasite *Plasmodium coatneyi*. Jung-Ting Chien, Stacey Lapp, Suman Pakala, Jessica C. Kissinger, John Barnwell and Mary R Galinski. (Submitted, Genome Announcements)
4. Raymond Babila Nyasa, Helen K. Kimbi, Denis Zofou, Jeremy D. DeBarry, Jessica C. Kissinger and Vincent P. K. Titanji An evolutionary approach to identify potentially protective B cell epitopes involved in naturally acquired immunity to malaria and the role of EBA-175 in protection amongst denizens of Bolifamba, Cameroon. (Submitted Malaria Journal)
5. Rodrigo P. Baptista, João Luis R. Cunha, Jeremy DeBarry, Egler Chiari, Jessica C. Kissinger, Daniella C. Bartholomeu and Andréa M. Macedo. Assembling highly-repetitive trypanosomatid genomes using short reads: The genome of *Trypanosoma cruzi* III 231 (Submitted Microbial Genomics)
6. Staffan Bensch, Björn Canbäck, Jeremy D. DeBarry, Thomas Johansson, Olof Hellgren, Jessica C. Kissinger, Vaidas Palinauskas, Elin Videvall and Gediminas Valkiūnas. The genome of *Haemoproteus tartakovskiyi* and its relationship to human malaria parasites.(2016) Genome Biology and Evolution doi:10.1093/gbe/evw081
7. Yi Yan, Brian Adam, Mary Galinski, Jessica C. Kissinger, Alberto Moreno and Juan B. Gutierrez. Mathematical model of within-host interaction between a *Plasmodium* parasite and the immune system. Mathematical BioSciences, 2016, doi: 10.1016/j.mbs.2015.10.003.
8. H. Lorenzi, A. Khan, M. Behnke, S. Namasivayam, S. Seshadri, M. Hadjithomas, S. Karamycheva, D. Pinney, B. Brunk, J. Ajioka, D. Azjenberg, J.C. Boothroyd, J. Boyle, M.L. Darde, J.P. Dubey, M. Grigg, D. Howe, K. Kim, B. Rosenthal, J. Saeij, C.L. Su, M. White, XQ Zhu, J. Parkinson, L. Liu, J.C. Kissinger, D.S. Roos, L.D. Sibley. Local genomic admixture drives concerted expansion and diversification of secreted pathogenesis determinants in *Toxoplasma gondii*. Nature Communications, 2016, doi: 10.1038/ncomms10147

9. Buscaglia, C.A., Kissinger, J.C. and F. Agüero. Neglected Tropical Diseases in the Post-Genomic Era. Trends in Genetics, 2015, <http://dx.doi.org/10.1016/j.tig.2015.06.002>.
10. Yin W, Kissinger JC, Moreno A, Galinski MR, Styczynski MP. From genome-scale data to models of infectious disease: A Bayesian network-based strategy to drive model development. Math Biosci. 2015 Jun 17. pii: S0025-5564(15)00124-8. doi: 10.1016/j.mbs.2015.06.006.
11. Tomasz Blazejewski, Nirvana Nursimulu, Viviana Pszeny, Sriveny Dangoudoubiyam, Sivaranjani Namasivayam, Melissa A. Chiasson, Kyle Chessman, Michelle Tonkin, Swapna Seshadri, Stacy S. Hung, Stacy M. Ricklefs, Martin J. Boulanger, Steve F. Porcella, Joshua Bridgers, Jessica C. Kissinger, Daniel K. Howe, Michael E. Grigg, and John Parkinson. Systems based analysis of the *Sarcocystis neurona* genome identifies pathways that differentiate tissue-invading from enteric coccidian parasites. MBio 2015 doi: 10.1128/mBio.02445-14
12. Kevin Lee, Weiwei Yin, Dalia Arafat, Yan Tang, Karan Uppal, Monica Cabrera-Mora, Alberto Moreno, Esmeralda Meyer, Jeremy DeBarry, Suman Pakala, Vishal Nayak, Jessica C. Kissinger, Dean Jones, Mary Galinski, Mark Styczynski, and Greg Gibson. Integration of Transcriptomics and Metabolomics in a *Rhesus* Macaque Drug Administration Study. Frontiers Cell Dev. Biol., 08 October 2014 doi: 10.3389/fcell.2014.00054
13. Jenna Oberstaller, Yoanna Pumpalova, Ariel Schieler, Manuel Llinás and Jessica C. Kissinger. The *Cryptosporidium parvum* Apiap2 Gene Family: Insights Into Evolution Of The Apiap2 Regulatory System In The Apicomplexa (2014) Nucleic Acids Research doi: 10.1093/nar/gku500
14. Vivien Dugan, Scott J. Emrich, Gloria I. Giraldo-Calderón, Omar S. Harb, Ruchi Newman, Brett E. Pickett, Lynn M. Schriml, Timothy B. Stockwell, Chris Stoeckert, Dan Sullivan, Indresh Singh, Doyle V. Ward, Alison Yao, Jie Zheng, Tanya Barrett, Bruce Birren, Lauren Brinkac, Vincent Bruno, Elizabeth Caler, Ishwar Chandramouliswaran, Sinéad Chapman, Frank Collins, Christina Cuomo, Joana Carneiro Da Silva, Valentina Di Francesco, Scott Durkin, Mark Eppinger, Michael Feldgarden, Claire Fraser, W. Florian Fricke, Maria Giovanni, Matt Henn, Erin Hine, Julie Dunning Hotopp, Jessica C. Kissinger, Eun Mi Lee, Punam Mathur, Ilene Mizrahi, Emmanuel Mongodin, Cheryl Murphy, Garry Myers, Dan Neafsey, Karen Nelson, William Nierman, Julia Puzak, David Rasko, David S. Roos, Lisa Sadzewicz, Bruno Sobral, R. Burke Squires, Rick Stevens, Luke Tallon, Herve Tettelin, David Wentworth, Owen White, Rebecca Will, Jennifer Wortman, Yun Zhang, Richard H. Scheuermann. Standardized Metadata for Human Pathogen/Vector Genomic Sequences (2014) PLoS One DOI: 10.1371/journal.pone.0099979
15. Jorge Luis Salinas, Jessica C. Kissinger, Dean P. Jones and Mary R. Galinski. Metabolomics in the Fight Against Malaria – Introducing the Malaria Host-Pathogen Resource Center. (2014) Memórias Instituto Oswaldo Cruz Vol 109 DOI: 10.1590/0074-0276140043
16. Jeremy D. DeBarry and Jessica C. Kissinger. Innovation through duplication in the reduced genomes of twelve parasites. (2014) PLoS One DOI: 10.1371/journal.pone.0099213
17. Jenna Oberstaller, Sandeep J. Joseph and Jessica C. Kissinger. Genome-wide upstream motif analysis of *Cryptosporidium parvum* genes clustered by expression profile. BMC Genomics. 2013 Jul 29;14(1):516. PubMed PMID: 23895416.
18. Lucchi NW, Oberstaller J, Kissinger JC, Udhayakumar V. Malaria diagnostics and surveillance in the post-genomic era. Public Health Genomics. 2013;16(1-2):37-43.doi: 10.1159/000345607. PMID: 23548716.
19. Patel JC, Oberstaller J, Xayavong M, Narayanan J, DeBarry JD, Srinivasamoorthy G, Villegas L, Escalante AA, DaSilva A, Peterson DS, Barnwell JW, Kissinger JC, Udhayakumar V, Lucchi NW. Real-time loop-mediated isothermal amplification (RealAmp) for the species-specific identification of *Plasmodium vivax*. PLoS One. 2013;8(1):e54986. doi: 10.1371/journal.pone.0054986. PMID: 23349994; PMCID: PMC3551762.
20. Aurrecoechea C, Barreto A, Brestelli J, Brunk BP, Cade S, Doherty R, Fischer S, Gajria B, Gao X, Gingle A, Grant G, Harb OS, Heiges M, Hu S, Iodice J, Kissinger JC, Kraemer ET, Li W, Pinney DF, Pitts B, Roos DS, Srinivasamoorthy G, Stoeckert CJ Jr, Wang H, Warrenfeltz S. EuPathDB: the

- eukaryotic pathogen database. *Nucleic Acids Res.* 2013 Jan;41(Database issue):D684-91. doi:10.1093/nar/gks1113. PMID: 23175615; PMCID: PMC3531183.
21. Zerlotini A, Aguiar ER, Yu F, Xu H, Li Y, Young ND, Gasser RB, Protasio AV, Berriman M, Roos DS, Kissinger JC, Oliveira G. SchistoDB: an updated genome resource for the three key schistosomes of humans. *Nucleic Acids Res.* 2013 Jan;41(Database issue):D728-31. doi: 10.1093/nar/gks1087. PMID: 23161692; PMCID: PMC3531198.
  22. Alok Dhamanaskar, Michael E. Cotterell, Chaitanya Guttula, John A. Miller, Jessica C. Kissinger, Jie Zheng, and Christian J. Stoeckert, Jr. (2012) Suggestions for Galaxy Workflow Design Using Ontologically Annotated Web Services. *Formal Ontology in Information Systems – Proceedings of the Seventh International Conference, Volume 239*, pp. 29-42.
  23. Li ZH, De Gaudenzi JG, Alvarez VE, Mendiondo N, Wang H, Kissinger JC, Frasch AC, Docampo R. A 43-nucleotide U-rich element in 3'-untranslated region of large number of *Trypanosoma cruzi* transcripts is important for mRNA abundance in intracellular amastigotes. *J Biol Chem.* 2012 Jun 1;287(23):19058-69. doi:10.1074/jbc.M111.338699. PMID: 22500021; PMCID: PMC3365939.
  24. Lucchi NW, Poorak M, Oberstaller J, DeBarry J, Srinivasamoorthy G, Goldman I, Xayavong M, da Silva AJ, Peterson DS, Barnwell JW, Kissinger J, Udhayakumar V. A new single-step PCR assay for the detection of the zoonotic malaria parasite *Plasmodium knowlesi*. *PLoS One.* 2012;7(2):e31848. doi: 10.1371/journal.pone.0031848. PMID: 22363751; PMCID: PMC3282782.
  25. Wang Y, Tang H, DeBarry JD, Tan X, Li J, Wang X, Lee TH, Jin H, Marler B, Guo H, Kissinger JC, Paterson AH. MCScanX: a toolkit for detection and evolutionary analysis of gene synteny and collinearity. *Nucleic Acids Res.* 2012 Apr;40(7):e49. doi: 10.1093/nar/gkr1293. PMID: 22217600; PMCID: PMC3326336.
  26. Stajich JE, Harris T, Brunk BP, Brestelli J, Fischer S, Harb OS, Kissinger JC, Li W, Nayak V, Pinney DF, Stoeckert CJ Jr, Roos DS. FungiDB: an integrated functional genomics database for fungi. *Nucleic Acids Res.* 2012 Jan;40(Database issue):D675-81. doi: 10.1093/nar/gkr918. PMID: 22064857; PMCID: PMC3245123.
  27. Thor SW, Hilt DA, Kissinger JC, Paterson AH, Jackwood MW. Recombination in avian gamma-coronavirus infectious bronchitis virus. *Viruses.* 2011 Sep;3(9):1777-99. doi: 10.3390/v3091777. PMID: 21994806; PMCID: PMC3187689.
  28. Phillips JE, Jackwood MW, McKinley ET, Thor SW, Hilt DA, Acevedo ND, Williams SM, Kissinger JC, Paterson AH, Robertson JS, Lemke C. Changes in nonstructural protein 3 are associated with attenuation in avian coronavirus infectious bronchitis virus. *Virus Genes.* 2012 Feb;44(1):63-74. doi:10.1007/s11262-011-0668-7. PMID: 21909766.
  29. Guttula, Chaitanya, Alok Dhamanaskar, Rui Wang, John A. Miller, Jessica C. Kissinger, Jie Zheng and Christian J. Stoeckert, Jr., Enriching the Ontology for Biomedical Investigations (OBI) to Improve its Suitability for Web Service Annotations. In *Proceedings of the International Conference on Biomedical Ontology (ICBO) Buffalo, New York (July 2011)* pp. 246-248.
  30. Wang, Rui, Chaitanya Guttula, Maryam Panahiazar, Haseeb Yousaf, John A. Miller, Eileen T. Kraemer and Jessica C. Kissinger, Web Service Composition using Service Suggestions In: *Proceedings of the 2011 IEEE International Workshop on Formal Methods in Services and Cloud Computing (FM-S&C) in conjunction with the 2011 IEEE International Conference on Web Services (ICWS), Washington, DC (July 2011)* pp. 482-489.
  31. Kissinger JC, DeBarry J. Genome cartography: charting the apicomplexan genome. *Trends Parasitol.* 2011 Aug;27(8):345-54. doi: 10.1016/j.pt.2011.03.006. PMID: 21764378; PMCID:PMC3160794.
  32. Fischer S, Aurrecochea C, Brunk BP, Gao X, Harb OS, Kraemer ET, Pennington C, Treatman C, Kissinger JC, Roos DS, Stoeckert CJ. The Strategies WDK: a graphical search interface and web development kit for functional genomics databases. *Database (Oxford).* 2011 Jun 23;2011:bar027. doi:10.1093/database/bar027. PMID: 21705364; PMCID:PMC3122067.

33. McKinley ET, Jackwood MW, Hilt DA, Kissinger JC, Robertson JS, Lemke C, Paterson AH. Attenuated live vaccine usage affects accurate measures of virus diversity and mutation rates in avian coronavirus infectious bronchitis virus. *Virus Res.* 2011 Jun;158(1-2):225-34. doi: 10.1016/j.virusres.2011.04.006. PMID: 21539870.
34. Demas A, Oberstaller J, DeBarry J, Lucchi NW, Srinivasamoorthy G, Sumari D, Kabanyanyi AM, Villegas L, Escalante AA, Kachur SP, Barnwell JW, Peterson DS, Udhayakumar V, Kissinger JC. Applied genomics: data mining reveals species-specific malaria diagnostic targets more sensitive than 18S rRNA. *J Clin Microbiol.* 2011 Jul;49(7):2411-8. doi: 10.1128/JCM.02603-10. PMID: 21525225; PMCID: PMC3147814.
35. DeBarry JD, Kissinger JC. Jumbled genomes: missing Apicomplexan synteny. *Mol Biol Evol.* 2011 Oct;28(10):2855-71. doi: 10.1093/molbev/msr103. PMID: 21504890; PMCID: PMC3176833.
36. Aurrecochea C, Barreto A, Brestelli J, Brunk BP, Caler EV, Fischer S, Gajria B, Gao X, Gingle A, Grant G, Harb OS, Heiges M, Iodice J, Kissinger JC, Kraemer ET, Li W, Nayak V, Pennington C, Pinney DF, Pitts B, Roos DS, Srinivasamoorthy G, Stoeckert CJ Jr, Treatman C, Wang H. AmoebaDB and MicrosporidiaDB: functional genomic resources for Amoebozoa and Microsporidia species. *Nucleic Acids Res.* 2011 Jan;39(Database issue):D612-9. doi: 10.1093/nar/gkq1006. PMID: 20974635; PMCID: PMC3013638.
37. Joseph SJ, Fernández-Robledo JA, Gardner MJ, El-Sayed NM, Kuo CH, Schott EJ, Wang H, Kissinger JC, Vasta GR. The Alveolate *Perkinsus marinus*: biological insights from EST gene discovery. *BMC Genomics.* 2010 Apr 7;11:228. doi:10.1186/1471-2164-11-228. PMID: 20374649; PMCID:PMC2868825.
38. Jackwood MW, Boynton TO, Hilt DA, McKinley ET, Kissinger JC, Paterson AH, Robertson J, Lemke C, McCall AW, Williams SM, Jackwood JW, Byrd LA. Emergence of a group 3 coronavirus through recombination. *Virology.* 2010 Mar 1;398(1):98-108. doi: 10.1016/j.virol.2009.11.044. PMID: 20022075.
39. Aurrecochea C, Brestelli J, Brunk BP, Fischer S, Gajria B, Gao X, Gingle A, Grant G, Harb OS, Heiges M, Innamorato F, Iodice J, Kissinger JC, Kraemer ET, Li W, Miller JA, Nayak V, Pennington C, Pinney DF, Roos DS, Ross C, Srinivasamoorthy G, Stoeckert CJ Jr, Thibodeau R, Treatman C, Wang H. EuPathDB: a portal to eukaryotic pathogen databases. *Nucleic Acids Res.* 2010 Jan;38(Database issue):D415-9. doi: 10.1093/nar/gkp941. Epub 2009 Nov 13. PMID: 19914931; PMCID: PMC2808945.
40. Aslett M, Aurrecochea C, Berriman M, Brestelli J, Brunk BP, Carrington M, Depledge DP, Fischer S, Gajria B, Gao X, Gardner MJ, Gingle A, Grant G, Harb OS, Heiges M, Hertz-Fowler C, Houston R, Innamorato F, Iodice J, Kissinger JC, Kraemer E, Li W, Logan FJ, Miller JA, Mitra S, Myler PJ, Nayak V, Pennington C, Phan I, Pinney DF, Ramasamy G, Rogers MB, Roos DS, Ross C, Sivam D, Smith DF, Srinivasamoorthy G, Stoeckert CJ Jr, Subramanian S, Thibodeau R, Tivey A, Treatman C, Velarde G, Wang H. TriTrypDB: a functional genomic resource for the Trypanosomatidae. *Nucleic Acids Res.* 2010 Jan;38(Database issue):D457-62. doi:10.1093/nar/gkp851. Epub 2009 Oct 20. PMID: 19843604; PMCID: PMC2808979.
41. Storm, K., E. Kraemer, C. Aurrecochea, M. Heiges, C. Pennington and J.C. Kissinger (2009) Web Site Evolution: Usability Evaluation Using Time Series Analysis of Selected Episode Graphs. 11th IEEE International Symposium on Web Systems Evolution (WSE'09), Edmonton, Canada (September 2009)
42. Wang, Z. X. Gao, C. He, J.A. Miller, J.C. Kissinger, M. Heiges, C. Aurrecochea, E.T. Kraemer and C. Pennington (2009). An Evaluation of Multiple Approaches for Federating Biological Data. *Journal of Information Technology Research*, 2(2):42-64
43. Wang, R., D. Brewer, S. Shastri, S. Swayampakula, J. A. Miller, E. T. Kraemer and J. C. Kissinger, "Adapting the Galaxy Bioinformatics Tool to Support Semantic Web Service Composition," *Proceedings of the 3rd IEEE International Workshop on Scientific Workflows (SWF'09)*, in conjunction with the 2009 IEEE International Conference on Web Services (ICWS'09), Los Angeles, California (July 2009) pp. 283-290.



44. Balu B, Chauhan C, Maher SP, Shoue DA, Kissinger JC, Fraser MJ Jr, Adams JH. piggyBac is an effective tool for functional analysis of the *Plasmodium falciparum* genome. *BMC Microbiol.* 2009 May 7;9:83. doi: 10.1186/1471-2180-9-83. PMID: 19422698; PMCID: PMC2686711.
45. Mullapudi N, Joseph SJ, Kissinger JC. Identification and functional characterization of cis-regulatory elements in the apicomplexan parasite *Toxoplasma gondii*. *Genome Biol.* 2009;10(4):R34. doi: 10.1186/gb-2009-10-4-r34. Epub 2009 Apr 7. PMID: 19351398; PMCID: PMC2688925.
46. Aurrecochea C, Brestelli J, Brunk BP, Dommer J, Fischer S, Gajria B, Gao X, Gingle A, Grant G, Harb OS, Heiges M, Innamorato F, Iodice J, Kissinger JC, Kraemer E, Li W, Miller JA, Nayak V, Pennington C, Pinney DF, Roos DS, Ross C, Stoeckert CJ Jr, Treatman C, Wang H. PlasmoDB: a functional genomic database for malaria parasites. *Nucleic Acids Res.* 2009 Jan;37(Database issue):D539-43. doi:10.1093/nar/gkn814. Epub 2008 Oct 28. PMID: 18957442; PMCID: PMC2686598.
47. Zerlotini A, Heiges M, Wang H, Moraes RL, Dominitini AJ, Ruiz JC, Kissinger JC, Oliveira G. SchistoDB: a *Schistosoma mansoni* genome resource. *Nucleic Acids Res.* 2009 Jan;37(Database issue):D579-82. doi: 10.1093/nar/gkn681. Epub 2008 Oct 8. PMID: 18842636; PMCID: PMC2686589.
48. Aurrecochea C, Brestelli J, Brunk BP, Carlton JM, Dommer J, Fischer S, Gajria B, Gao X, Gingle A, Grant G, Harb OS, Heiges M, Innamorato F, Iodice J, Kissinger JC, Kraemer E, Li W, Miller JA, Morrison HG, Nayak V, Pennington C, Pinney DF, Roos DS, Ross C, Stoeckert CJ Jr, Sullivan S, Treatman C, Wang H. GiardiaDB and TrichDB: integrated genomic resources for the eukaryotic protest pathogens *Giardia lamblia* and *Trichomonas vaginalis*. *Nucleic Acids Res.* 2009 Jan;37(Database issue):D526-30. doi: 10.1093/nar/gkn631. Epub 2008 Sep 29. PMID: 18824479; PMCID: PMC2686445.
49. Kuo CH, Wares JP, Kissinger JC. The Apicomplexan whole-genome phylogeny: an analysis of incongruence among gene trees. *Mol Biol Evol.* 2008 Dec;25(12):2689-98. doi: 10.1093/molbev/msn213. Epub 2008 Sep 26. PMID: 18820254; PMCID: PMC2582981.
50. Kuo CH, Kissinger JC. Consistent and contrasting properties of lineage-specific genes in the apicomplexan parasites *Plasmodium* and *Theileria*. *BMC Evol Biol.* 2008 Apr 11;8:108. doi: 10.1186/1471-2148-8-108. PMID: 18405380; PMCID: PMC2330040.
51. Sanderson SJ, Xia D, Prieto H, Yates J, Heiges M, Kissinger JC, Bromley E, Lal K, Sinden RE, Tomley F, Wastling JM. Determining the protein repertoire of *Cryptosporidium parvum* sporozoites. *Proteomics.* 2008 Apr;8(7):1398-414. doi: 10.1002/pmic.200700804. PMID: 18306179; PMCID: PMC2770187.
52. Wang, Z., J. Miller, J.C. Kissinger, R. Wang, D. Brewer and C. Aurrecochea, "WS-BioZard: A Wizard for Composing Bioinformatics Web Services," Proceedings of the 2-nd IEEE International Workshop on Scientific Workflows (SWF'08)
53. Mendes, P.N., B. McKnight, A.P. Sheth and J.C. Kissinger. (2008) TcruziKB: Enabling Complex Queries for Genomic Data Exploration. ICSC, pp. 432-439, 2008 IEEE International Conference on Semantic Computing
54. Gajria B, Bahl A, Brestelli J, Dommer J, Fischer S, Gao X, Heiges M, Iodice J, Kissinger JC, Mackey AJ, Pinney DF, Roos DS, Stoeckert CJ Jr, Wang H, Brunk BP. ToxoDB: an integrated *Toxoplasma gondii* database resource. *Nucleic Acids Res.* 2008 Jan;36(Database issue):D553-6. Epub 2007 Nov 14. PMID: 18003657; PMCID: PMC2238934.
55. Wang Z., Gao X., He C., Miller J.A., Kissinger J.C., Heiges M., Aurrecochea C., Kraemer E. and Pennington C., "A Comparison of Federated Databases with Web Services for the Integration of Bioinformatics Data," Proceedings of the 2007 International Conference on Bioinformatics & Computational Biology (BIOCOMP'07), Las Vegas, Nevada (June 2007) pp. 334-338.
56. Nashiru O, Huynh C, Doumbia S, Kissinger JC, Isokpehi RD, Olorunsogo OO. Building bioinformatics capacity in West Africa. *Afr J Med Med Sci.* 2007;36 Suppl:15-8. PMID: 17703558.

57. Mullapudi N, Lancto CA, Abrahamsen MS, Kissinger JC. Identification of putative cis-regulatory elements in *Cryptosporidium parvum* by *de novo* pattern finding. BMC Genomics. 2007 Jan 9;8:13. PMID: 17212834; PMCID: PMC1779779.
58. Szabó Z, Stahl AO, Albers SV, Kissinger JC, Driessen AJ, Pohlschröder M. Identification of diverse archaeal proteins with class III signal peptides cleaved by distinct archaeal prepilin peptidases. J Bacteriol. 2007 Feb;189(3):772-8. Epub 2006 Nov 17. PMID: 17114255; PMCID: PMC1797317.
59. Aurrecoechea C, Heiges M, Wang H, Wang Z, Fischer S, Rhodes P, Miller J, Kraemer E, Stoeckert CJ Jr, Roos DS, Kissinger JC. ApiDB: integrated resources for the apicomplexan bioinformatics resource center. Nucleic Acids Res. 2007 Jan;35(Database issue):D427-30. Epub 2006 Nov 10. PMID: 17098930; PMCID: PMC1669770.
60. Chapman, B.A., Bowers J.E., Feltus F.A., Kissinger J.C. and Paterson A.H. Buffering crucial functions may impart cyclicity to angiosperm polyploidization Proc Natl Acad Sci U S A. 2006 February 21; 103(8): 2730-2735.
61. Stoeckert CJ Jr, Fischer S, Kissinger JC, Heiges M, Aurrecoechea C, Gajria B, Roos DS. PlasmoDB v5: new looks, new genomes. Trends Parasitol. 2006 Dec;22(12):543-6. Epub 2006 Oct 6. PMID: 17029963.
62. Paterson AH, Chapman BA, Kissinger JC, Bowers JE, Feltus FA, Estill JC. Many gene and domain families have convergent fates following independent whole-genome duplication events in *Arabidopsis*, *Oryza*, *Saccharomyces* and *Tetraodon*. Trends Genet. 2006 Nov;22(11):597-602. Epub 2006 Sep 18. Review. PMID: 16979781.
63. Wang H, Su Y, Mackey AJ, Kraemer ET, Kissinger JC. SynView: a GBrowse-compatible approach to visualizing comparative genome data. Bioinformatics. 2006 Sep 15;22(18):2308-9. Epub 2006 Jul 14. PMID:16844709.
64. Kissinger JC. A tale of three genomes: the kinetoplastids have arrived. Trends Parasitol. 2006 Jun;22(6):240-3. Epub 2006 Apr 25. PMID: 16635586.
65. Agüero F, Zheng W, Weatherly DB, Mendes P, Kissinger JC. TcruziDB: an integrated, post-genomics community resource for *Trypanosoma cruzi*. Nucleic Acids Res. 2006 Jan 1;34(Database issue):D428-31. PMID: 16381904; PMCID: PMC1347470
66. Heiges M, Wang H, Robinson E, Aurrecoechea C, Gao X, Kaluskar N, Rhodes P, Wang S, He CZ, Su Y, Miller J, Kraemer E, Kissinger JC. CryptoDB: a *Cryptosporidium* bioinformatics resource update. Nucleic Acids Res. 2006 Jan 1;34(Database issue):D419-22. PMID: 16381902; PMCID:PMC1347441.
67. Huang J, Mullapudi N, Lancto CA, Scott M, Abrahamsen MS, Kissinger JC. Phylogenomic evidence supports past endosymbiosis, intracellular and horizontal gene transfer in *Cryptosporidium parvum*. Genome Biol. 2004;5(11):R88. Epub 2004 Oct 19. PMID: 15535864; PMCID: PMC545779.
68. Vidigal TH, Spatz L, Kissinger JC, Redondo RA, Pires EC, Simpson AJ, Carvalho OS. Analysis of the first and second internal transcribed spacer sequences of the ribosomal DNA in *Biomphalaria tenagophila* complex (Mollusca: Planorbidae). Mem Inst Oswaldo Cruz. 2004 Mar;99(2):153-8. Epub 2004 Jun 24. PMID: 15250468.
69. Striepen B, Kissinger JC. Genomics meets transgenics in search of the elusive *Cryptosporidium* drug target. Trends Parasitol. 2004 Aug;20(8):355-8. Review. PMID: 15246316.
70. Gunasekera AM, Patankar S, Schug J, Eisen G, Kissinger J, Roos D, Wirth DF. Widespread distribution of antisense transcripts in the *Plasmodium falciparum* genome. Mol Biochem Parasitol. 2004 Jul;136(1):35-42. PMID: 15138065.
71. Stwora-Wojczyk MM, Kissinger JC, Spitalnik SL, Wojczyk BS. O-glycosylation in *Toxoplasma gondii*: identification and analysis of a family of UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferases. Int J Parasitol. 2004 Mar 9;34(3):309-22. PMID: 15003492.

72. Huang J, Mullapudi N, Sicheritz-Ponten T, Kissinger JC. A first glimpse into the pattern and scale of gene transfer in Apicomplexa. *Int J Parasitol.* 2004 Mar 9;34(3):265-74. PMID: 15003488.
73. Striepen B, Pruijssers AJ, Huang J, Li C, Gubbels MJ, Umejiego NN, Hedstrom L, Kissinger JC. Gene transfer in the evolution of parasite nucleotide biosynthesis. *Proc Natl Acad Sci U S A.* 2004 Mar 2;101(9):3154-9. Epub 2004 Feb 18. PMID: 14973196; PMCID: PMC365759.
74. Luchtan M, Warade C, Weatherly DB, Degraeve WM, Tarleton RL, Kissinger JC. TcruziDB: an integrated *Trypanosoma cruzi* genome resource. *Nucleic Acids Res.* 2004 Jan 1;32(Database issue):D344-6. PMID: 14681430; PMCID: PMC308783
75. Puiu D, Enomoto S, Buck GA, Abrahamsen MS, Kissinger JC. CryptoDB: the *Cryptosporidium* genome resource. *Nucleic Acids Res.* 2004 Jan 1;32(Database issue):D329-31. PMID: 14681426; PMCID: PMC308784.
76. Milgram, A.J., Gajria, B., Kissinger, J.C., Pearson, D.S. and Roos, D.S. (2003) *Plasmodium falciparum* GenePlot. CD-ROM Insert, Plasmodium genome: Scientific achievement and medical opportunity. *Nature*, 421(6926).
77. Li L, Brunk BP, Kissinger JC, Pape D, Tang K, Cole RH, Martin J, Wylie T, Dante M, Fogarty SJ, Howe DK, Liberator P, Diaz C, Anderson J, White M, Jerome ME, Johnson EA, Radke JA, Stoeckert CJ Jr, Waterston RH, Clifton SW, Roos DS, Sibley LD. Gene discovery in the apicomplexa as revealed by EST sequencing and assembly of a comparative gene database. *Genome Res.* 2003 Mar;13(3):443-54. PMID: 12618375; PMCID: PMC430278.
78. Su C, Evans D, Cole RH, Kissinger JC, Ajioka JW, Sibley LD. Recent expansion of *Toxoplasma* through enhanced oral transmission. *Science.* 2003 Jan 17;299(5605):414-6. PMID: 12532022.
79. Kissinger JC, Gajria B, Li L, Paulsen IT, Roos DS. ToxoDB: accessing the *Toxoplasma gondii* genome. *Nucleic Acids Res.* 2003 Jan 1;31(1):234-6. PMID: 12519989; PMCID: PMC165519.
80. Bahl A, Brunk B, Crabtree J, Fraunholz MJ, Gajria B, Grant GR, Ginsburg H, Gupta D, Kissinger JC, Labo P, Li L, Mailman MD, Milgram AJ, Pearson DS, Roos DS, Schug J, Stoeckert CJ Jr, Whetzel P. PlasmoDB: the *Plasmodium* genome resource. A database integrating experimental and computational data. *Nucleic Acids Res.* 2003 Jan 1;31(1):212-5. PMID: 12519984; PMCID: PMC165528.
81. Vidigal TH, Magalhães KG, Kissinger JC, Caldeira RL, Simpson AJ, Carvalho OS. A Multiplex-PCR approach to identification of the Brazilian intermediate hosts of *Schistosoma mansoni*. *Mem Inst Oswaldo Cruz.* 2002;97 Suppl 1:95-7. PMID: 12426601.
82. Kissinger JC, Brunk BP, Crabtree J, Fraunholz MJ, Gajria B, Milgram AJ, Pearson DS, Schug J, Bahl A, Diskin SJ, Ginsburg H, Grant GR, Gupta D, Labo P, Li L, Mailman MD, McWeeney SK, Whetzel P, Stoeckert CJ, Roos DS. The *Plasmodium* genome database. *Nature.* 2002 Oct 3;419(6906):490-2. PMID: 12368860.
83. Kissinger JC, Souza PC, Soarest CO, Paul R, Wahl AM, Rathore D, McCutchan TF, Krettli AU. Molecular phylogenetic analysis of the avian malarial parasite *Plasmodium (Novyella) juxtannucleare*. *J Parasitol.* 2002 Aug;88(4):769-73. PMID: 12197128.
84. Rose RW, Brüser T, Kissinger JC, Pohlschröder M. Adaptation of protein secretion to extremely high-salt conditions by extensive use of the twin-arginine translocation pathway. *Mol Microbiol.* 2002 Aug;45(4):943-50. PMID: 12180915.
85. Roos DS, Crawford MJ, Donald RG, Fraunholz M, Harb OS, He CY, Kissinger JC, Shaw MK, Striepen B. Mining the *Plasmodium* genome database to define organellar function: what does the apicoplast do? *Philos Trans R Soc Lond B Biol Sci.* 2002 Jan 29;357(1417):35-46. PMID: 11839180; PMCID: PMC1692924.
86. Bahl A, Brunk B, Coppel RL, Crabtree J, Diskin SJ, Fraunholz MJ, Grant GR, Gupta D, Huestis RL, Kissinger JC, Labo P, Li L, McWeeney SK, Milgram AJ, Roos DS, Schug J, Stoeckert CJ Jr. PlasmoDB: the *Plasmodium* genome resource. An integrated database providing tools for

- accessing, analyzing and mapping expression and sequence data (both finished and unfinished). *Nucleic Acids Res.* 2002 Jan 1;30(1):87-90. PMID: 11752262; PMCID: PMC99106.
87. Schein AI, Kissinger JC, Ungar LH. Chloroplast transit peptide prediction: a peek inside the black box. *Nucleic Acids Res.* 2001 Aug 15;29(16):E82. PMID: 11504890; PMCID: PMC55866.
  88. Tarleton RL, Kissinger J. Parasite genomics: current status and future prospects. *Curr Opin Immunol.* 2001 Aug;13(4):395-402. Review. PMID: 11498294.
  89. Akopyants NS, Clifton SW, Martin J, Pape D, Wylie T, Li L, Kissinger JC, Roos DS, Beverley SM. A survey of the *Leishmania major* Friedlin strain V1 genome by shotgun sequencing: a resource for DNA microarrays and expression profiling. *Mol Biochem Parasitol.* 2001 Apr 6;113(2):337-40. PMID: 11295190.
  90. Fast NM, Kissinger JC, Roos DS, Keeling PJ. Nuclear-encoded, plastid-targeted genes suggest a single common origin for apicomplexan and dinoflagellate plastids. *Mol Biol Evol.* 2001 Mar;18(3):418-26. PMID: 11230543.
  91. The *Plasmodium* Genome Database Collaborative. PlasmoDB: An integrative database of the *Plasmodium falciparum* genome. (2001) Tools for accessing and analyzing finished and unfinished sequence data. *Nucleic Acids Research* 29(1):66-69
  92. Vidigal TH, Kissinger JC, Caldeira RL, Pires EC, Monteiro E, Simpson AJ, Carvalho OS. Phylogenetic relationships among Brazilian *Biomphalaria* species (Mollusca: Planorbidae) based upon analysis of ribosomal ITS2 sequences. *Parasitology.* 2000 Dec;121 Pt 6:611-20. PMID: 11155932.
  93. Drozdowicz YM, Kissinger JC, Rea PA. AVP2, a sequence-divergent, K(+)-insensitive H(+)-translocating inorganic pyrophosphatase from *Arabidopsis*. *Plant Physiol.* 2000 May;123(1):353-62. PMID: 10806252; PMCID: PMC59009.
  94. Roos DS, Crawford MJ, Donald RG, Fohl LM, Hager KM, Kissinger JC, Reynolds MG, Striepen B, Sullivan WJ Jr. Transport and trafficking: *Toxoplasma* as a model for *Plasmodium*. *Novartis Found Symp.* 1999;226:176-95; discussion 195-8. Review. PMID: 10645546.
  95. Krautz GM, Kissinger JC, Krettli AU. The targets of the lytic antibody response against *Trypanosoma cruzi*. *Parasitol Today.* 2000 Jan;16(1):31-4. Review. PMID: 10637586.
  96. Roos DS, Crawford MJ, Donald RG, Kissinger JC, Klimczak LJ, Striepen B. Origin, targeting, and function of the apicomplexan plastid. *Curr Opin Microbiol.* 1999 Aug;2(4):426-32. Review. PMID: 10458993.
  97. Kissinger JC, Raff RA. Evolutionary changes in sites and timing of actin gene expression in embryos of the direct- and indirect-developing sea urchins, *Heliocidaris erythrogramma* and *H. tuberculata*. *Dev Genes Evol.* 1998 Apr;208(2):82-93. PMID: 9569349.
  98. Kissinger JC, Collins WE, Li J, McCutchan TF. *Plasmodium inui* is not closely related to other quartan *Plasmodium* species. *J Parasitol.* 1998 Apr;84(2):278-82. PMID: 9576499.
  99. Li J, Gutell RR, Damberger SH, Wirtz RA, Kissinger JC, Rogers MJ, Sattabongkot J, McCutchan TF. Regulation and trafficking of three distinct 18 S ribosomal RNAs during development of the malaria parasite. *J Mol Biol.* 1997 Jun 6;269(2):203-13. PMID: 9191065.
  100. Carreno, R.A., J.C. Kissinger, T.F. McCutchan and J.R. Barta. (1997) Phylogenetic analysis of haemosporinid parasites (Apicomplexa: Haemosporina) and their co-evolution with vectors and intermediate hosts. *Archiv für Protistenkunde* 148:245-252
  101. Bolker JA, Butler M, Kissinger J, Riley MA. Addressing the gender gap in evolutionary biology. *Trends Ecol Evol.* 1997 Feb;12(2):46-7. PMID: 21237968.
  102. Kissinger JC, Hahn JH, Raff RA. Rapid evolution in a conserved gene family. Evolution of the actin gene family in the sea urchin genus *Heliocidaris* and related genera. *Mol Biol Evol.* 1997 Jun;14(6):654-65. PMID: 9190067.

103. McCutchan TF, Kissinger JC, Touray MG, Rogers MJ, Li J, Sullivan M, Braga EM, Krettli AU, Miller LH. Comparison of circumsporozoite proteins from avian and mammalian malaras: biological and phylogenetic implications. *Proc Natl Acad Sci U S A*. 1996 Oct 15;93(21):11889-94. PMID: 8876233; PMCID: PMC38154.
104. Popodi E, Kissinger JC, Andrews ME, Raff RA. Sea urchin Hox genes: insights into the ancestral Hox cluster. *Mol Biol Evol*. 1996 Oct;13(8):1078-86 PMID: 8865662.
105. Hahn JH, Kissinger JC, Raff RA. Structure and evolution of Cyl cytoplasmic actin-encoding genes in the indirect- and direct-developing sea urchins *Heliocidaris tuberculata* and *Heliocidaris erythrogramma*. *Gene*. 1995 Feb 14;153(2):219-24. PMID: 7875592.
106. Sahm DF, Kissinger J, Gilmore MS, Murray PR, Mulder R, Solliday J, Clarke B. In vitro susceptibility studies of vancomycin-resistant *Enterococcus faecalis*. *Antimicrob Agents Chemother*. 1989 Sep;33(9):1588-91. PMID: 2554802; PMCID: PMC172707.

### **Book Chapters**

- Jeremy DeBarry, Segun Fatumo and Jessica C. Kissinger. (2013) The Apicomplexan Genomic Landscape - The Evolutionary Context of *Plasmodium*. In "Malaria Parasites: Comparative Genomics, Evolution and Molecular Biology," Editors, Jane M. Carlton, Susan L. Perkins and Kirk W. Deitsch ISBN: 978-1-908230-07-2 Publisher: Caister Academic Press
- Satomi Kato and JC Kissinger. (2012) *Cryptosporidium*: Comparative Genomics and Pathogenesis. in "Evolution of Virulence in Eukaryotic Microbes" Editors, David Sibley, Barbara J. Howlett, and Joseph Heitman, ISBN: 1118038185 Wiley-Blackwell
- H. Wang, J. DeBarry, J. C. Kissinger (2010) SynView - Synteny Browser with GBrowse Integration. A Practical Guide to Bioinformatics Analysis, iConcept Press Ltd.
- Putignani, L., Sanya J. Sanderson, Cristina Russo, Jessica Kissinger, Donato Menichella and Jonathan M. Wastling, (2009) Proteomic and genomic approaches to understanding the "power plant" of *Cryptosporidium* CABI publishing.
- Kissinger, J.C. (2007) Genomics. In: *Cryptosporidium and Cryptosporidiosis*. Edited by Ron Fayer and Lihua Xiao. Taylor and Francis. Publisher CRC 2007
- Kissinger, J.C., and Chih-Horng Kuo (2007) Evolution and comparative genomics of *Toxoplasma gondii* In: *The Biology of Toxoplasma gondii* Eds. J. Ajioka and D. Soldati. Horizon Press
- Huang, J., Kissinger, J.C. (2006) "Lateral and intracellular gene transfer in the Apicomplexa: the scope and functional consequences" In: *Genome Evolution in Eukaryotic Microbes*. Edited by Laura A. Katz and Debashish Bhattacharya. Oxford Press.
- Whetzel, P., Date, S.V., Essien, K., Fraunholz, M.J., Gajria, B., Grant, G.R., Iodice, J., Kissinger, J.C., Labo, P.T., Milgram, A.J., Roos, D.S. and C.J. Stoeckert. (2006) PlasmoDB: The Plasmodium Genomics and Functional Genomics Resource. In: *In Silico Genomics and Proteomics: Functional Annotation of Genomes and Proteins*. Edited by Nicola Mulder. Nova Science Publishers. Hauppauge, NY
- Whetzel, Patricia, Bindu Gajria, Jessica C. Kissinger, Christian J. Stoeckert Jr., and David S. Roos (2005) PlasmoDB: The *Plasmodium* Genome Resource in Malaria: Parasite Biology, Pathogenesis, and Protection, Second Edition, Edited by Irwin W. Sherman. ASM Press
- Kissinger, J.C., and D.S. Roos. (2004) "Getting the most out of bioinformatics resources" In: *Genomes and the Molecular Cell Biology of Malaria Parasites* A. Waters and C. Janse (eds.) Horizon Scientific Press, Norfolk, UK
- Kissinger, J.C., M.J. Crawford, D.S. Roos and J. Ajioka. (2002) *Toxoplasma gondii*: A Model for Evolutionary Genomics and Chemotherapy. *Pathogen Genomics: Impact on Human Health*. K. J. Shaw Editor. Humana Press Inc.

Roos, D.S., J.A. Darling, M.G. Reynolds, K.M. Hager, B.S. Striepen and J.C. Kissinger. (1999) *Toxoplasma* as a model parasite: apicomplexan biochemistry, cell biology, molecular genetics, genomics and beyond. Biology of Parasitism. C. Tschudi and E. Pearce Editors. Kluwer Press.

### **Published Abstracts & Commentary**

Balu, B., S. Maher, C. Chauhan, D. Shoue, J. Kissinger, M.J. Fraser and J.H. Adams. (2008) A whole-genome mutagenesis screen to identify genes important for *Plasmodium falciparum* bloodstage growth. *International Journal for Parasitology*. Vol 38 Suppl.: 51

Wang, Z., Gao, X., He, C., Miller, J.A., Kissinger, J.C., Heiges, M., Aurrecochea, C., Kraemer, E.T., Fischer, S., Stoeckert, C.J. (2006) Creating a Federation of Bioinformatics Databases in Oracle. From the Virginia Bioinformatics Institute at Virginia Tech (VBI) and The Jackson Laboratory's 9th Annual Computational Genomics Conference, Baltimore, Maryland.

Kissinger, J.C., W.E. Collins and T.F. McCutchan. (1997) *Plasmodium* parasites with quartan periodicities are not closely related to each other evolutionarily. *Mem. Inst. Oswaldo Cruz*. Vol 92 Suppl.:186

Butler, M and J.C. Kissinger. (1997) A Report from the Women in Evolution Conference. Posted February 4. <http://nextwave.sciencemag.org/cgi/content/full/1998/03/29/59?>

Kissinger, J.C. (1996) Evolutionary Origins of Human *Plasmodium* Species. *Mem. Inst. Oswaldo Cruz*. Vol 91 Suppl.:19

## **INVITED TALKS**

### **2016**

- From Bench to Bedside: The Critical Role of Informatics in the Fight Against Infectious Diseases, University of Florida, Gainesville, FL
- *Australopithecus*, AIDS and the Apicomplexan Apicoplast - Passion, Serendipity and a Lot of Hard Work, AMeeGuS, Gulbenkian Graduate Student Organization Retreat, Setúbal, Portugal
- The Malaria Host-Pathogen Interaction Center, Instituto Gulbenkian de Ciencia, Oeiras, Portugal

### **2015**

- Metadata and the Challenges of Data Re-use in the Systems Biology of Infectious Disease, Big Data Challenges in the Life Sciences Symposium, UGA, Athens, GA
- Drowning in Data Yet Unable to Find What You Need? Data Challenges for the 21st Century Health Researcher, One Health Seminar, UGA, Athens, Georgia
- Introducing the Malaria Host-Pathogen Interaction Center and the new face of [PlasmoDB.org](http://PlasmoDB.org), Centro de Pesquisas René Rachou – FIOCRUZ, Belo Horizonte, MG, Brazil
- Drowning in Data: What is a Biologist to do?" Life lessons from integrating omics and host-pathogen interaction data. Universidade Federal do Minas Gerais, Belo Horizonte, Brazil
- Maximizing the Accessibility and Utility of Emerging Host and Pathogen "Omics" Data Sets – CDC University, Centers for Disease Control and Prevention, Atlanta, GA
- Drowning in Data: What is a biologist to do? Grand Rounds Lecture – Rollins School of Public Health, Emory University, Atlanta, GA

### **2014**

- Evolution and Systems Biology of Malaria Host-Pathogen Interactions – Building the Framework, presented at: National Evolutionary Synthesis Center (NESCent) – Duke University, Durham, NC
- The Big Picture – Evolution and Some Cool Resources, presented at: Malaria Research Coordination Network (RCN) – Shepherdstown, WVA
- Keynote, The Malaria Host-Pathogen Interaction Center and Other Resources for Data Integration presented at: The 14<sup>th</sup> Annual Quebec Molecular Parasitology Symposium at McGill University, Montreal, Canada
- *Cryptosporidium* AP2 Proteins and Evolution of Gene Networks in the Apicomplexa, presented at: International *Giardia* and *Cryptosporidium* Conference V, Uppsala, Sweden

- Malaria – Not Just a Disease of Humans. Presented at: The Secret Life of Malaria A Global Journey to Cure and Prevention. University of Georgia, Athens, GA

## 2013

- Data Integration and Mining in the Age of 'Omics: The EuPathDB Model of a Needs-Driven Research Resource, UNC-C, Charlotte, NC
- Three seminars: Drowning in Data: What is a Biologist to Do?; An Overview of the Malaria Host-Pathogen Interaction Center; Studies of Gene Expression and Gene Regulation in *Cryptosporidium*. Henan Agricultural University, Zhengzhou, China
- Overview of Research in the Kissinger Lab: Bioinformatics-led Discoveries, Northwest A&F University, Xi'an, China
- Drowning in Data: What is a Biologist to Do? Shandong University, Jinan, China
- Evolution of the Apicomplexan Genome, Lund University Graduate Research School in Genomic Ecology Summer Meeting, Klippan, Sweden
- Big Data: Living in an Exabyte world and beyond. Hack for Athens, Hackathon, Athens, GA
- A Tour of the Eukaryotic Pathogens Database and Application to Systems Biology of Host-Pathogen Interactions, Centro de Pesquisas René Rachou, Belo Horizonte, MG Brazil
- Evolution of the Apicomplexan Genome: A Study of Lineage-Specific Genes and Genome Features, The Evolution of Parasite Genomes and Origins of Parasitism Meeting, invitation only, Wellcome Trust Sanger Institute, Hinxton, UK
- Designing and Mining and Integrated Omics Database & Evolution of the Apicomplexan Genome, Simon Fraser University, Vancouver, Canada
- Integrating and mining Host and Pathogen Data in the Age of Omics. OneHealth Symposium, Athens, GA
- Keynote address: The Malaria Host-Pathogen Interaction Center (MaHPIC): Computational Challenges Associated with Host-Pathogen Interaction Studies, International Society for Computational Biology and African Society for Bioinformatics and Computational Biology 2013 Africa Conference, Casablanca, Morocco
- Confessions of a Data Junkie: Dealing with Host-Pathogen Interactions in an Omics World, Vice Presidents' Research Exchange Series, Georgia Regents University, Augusta, GA

## 2012

- Using Genomics to Design a Better Diagnostic Test for Malaria, Mississippi University for Women, Columbus, Mississippi
- Eukaryotic Pathogen Database, Jackson State University, Jackson, Mississippi
- Evolution of the Apicomplexan Genome, Program MBL-ICB-FAPESP Biology of Parasitism, Juquehy, Brazil
- Introduction to the EuPath DB Data Mining Resource, Program MBL-ICB-FAPESP Biology of Parasitism, Juquehy, Brazil
- Challenges and Opportunities Associated with Linking Immunoinformatics to Host-Pathogen Interactions, 3rd Immunoinformatics and Computational Immunology Workshop, Orlando, Florida
- Defining the *Cryptosporidium parvum* Transcriptional Regulatory Network, 5<sup>th</sup> International Conference on Anaerobic Protists, Los Angeles, California
- Keynote address: Confessions of a Data Junkie: What is a Biologist to Do? 5<sup>th</sup> Louisiana Biomedical Research Network Computational Biology Workshop, Shreveport, Louisiana
- EuPathDB.org – An Integrated Omics and Isolate Platform for Eukaryotic Pathogens (presentation part of a bioinformatics-themed panel), International Conference on Emerging Infectious Diseases, Atlanta, Georgia
- Analysis of Gene Expression in *Cryptosporidium parvum*, International *Giardia* & *Cryptosporidium* Conference, Wellington, New Zealand

## 2011

- Mining Integrated "Omics" and Ortholog Data to Develop Candidate Target Lists, International Conference on Global Challenges for New Drug Discovery against Tropical Parasitic Diseases, Riviera Maya, Mexico

- ToxoDB: An Integrated Genomic Database for the Study of *Toxoplasma* and *Neospora*, 20<sup>th</sup> Latin American Congress on Parasitology, 25<sup>th</sup> Colombian Congress on Parasitology and Tropical Medicine, Bogotá, Colombia
  - Evolution of the Apicomplexan Genome, II Meeting on Parasitology Research, Federal University of Minas Gerais, Belo Horizonte, Brazil
  - Keynote – Evolution of the Apicomplexan Genome, International Meeting on Malaria and Related Haemosporidian Parasites of Wildlife, Shepherdstown, WV
  - "Omic" data integration and the role of databases in facilitating research, European Bioinformatics Institute, Hinxton, England
  - "Omic" data integration and the role of databases in facilitating research, Bogotá, Colombia
- 2010**
- Making Sense of the Apicomplexan Genome: Synteny, Diagnostic Targets and Databases, LSU, Baton Rouge, LA
  - 59<sup>th</sup> Annual Meeting of the American Society for Tropical Medicine and Hygiene, PlasmoDB Update, Atlanta, GA
  - International Coccidiosis Conference, Update on *Cryptosporidium* and *Sarcocystis* –Omics Datasets, Guangzhou, China
  - International Coccidiosis Conference, EuPathDB, China
  - 12<sup>th</sup> Brazilian Meeting on Malaria Research, Development of Simple, Field-usable Molecular Tools for the Diagnosis of Malaria: The Applied Side of Genomics, Ouro Preto, Brazil
  - Bioinformatics Resource Center Meeting, EuPathDB Postgenomic Data Update, Philadelphia, PA
  - National Evolutionary Synthesis Center, Evolution of the Apicomplexan Genome: Where has all the Synteny Gone?, Durham, NC
  - Global Health Network Meeting, Infectious Disease Genomics and Bioinformatics Training in Brazil, Bethesda, MD
  - 85<sup>th</sup> Annual Meeting of the American Society of Parasitologists, EuPathDB: A Eukaryotic Pathogen Database of Protist "Omics" Data, Colorado Springs, CO
  - University of Georgia – Centers for Disease Control Research Forum, Development of Simple, Field-Usable Molecular Tools for the Diagnosis of Malaria, Atlanta, GA
- 2009**
- Jackson State University, The applied side of parasite genomics: Potential therapeutics and diagnostics, Jackson, MS
  - Biology of Parasitism Course, How do I use all that data? Applications of Bioinformatics to Parasite research, MBL, Woods Hole, MA
  - University of Texas at Arlington, Evolution of the apicomplexan genome, something borrowed, again and again, Arlington, TX
  - Kinetoplastid Bioinformatics Strategic Planning Meeting, Introduction to TriTrypDB, Philadelphia, PA
- 2008**
- BRC6, Advances in User Interface Design, Deerfield Beach, FL
  - A sneak peek at EuPathDB new developments, CTEGD Symposium 2008, Athens, GA
  - X-Meeting, Data Integration: The Challenge (and Beauty) of Working in an "Omics World," Salvador, Bahia, Brazil
  - ISEP Protist 2008, Evolution of the Apicomplexan Genome, Halifax, Nova Scotia, Canada
  - Keynote -Translational & Transformative Bioinformatics Research, UNICEF/UNDP/World Bank/WHO-TDR Bioinformatics Workshop 2008, Abuja, Nigeria
  - ICAP Taiwan - EuPathDB bioinformatics resources for anaerobic protists – a data mining and evolutionary approach to research, Taipei, Taiwan
- 2007**
- Introduction to NIH's Bioinformatics Resource Centers and the challenges of meaningful data integration in an "OMICS" world, IOB Brown Bag Bioinformatics Series, Athens, GA
  - BRC5, Apicomplexan Isolates, Bethesda, MD
  - Identification and functional characterization of *cis*-regulatory elements in Apicomplexan parasites, Department of Medical Parasitology, NYU, NY



- Interoperability and the Integration of Diverse Data Types: Strategies for the Future, Structural Genomics Consortium meeting, Toronto, Canada Toronto
  - Omics, Omics everywhere, What is a parasitologist to do? Biology of Parasitism, MBL, Woods Hole, MA
  - CryptoDB, International Giardia and Cryptosporidiosis Congress, Morelia, Mexico
- 2006**
- Evolution of Apicomplexan Parasite Genomes and Their Respective Databases. Indiana University, Bloomington, IN.
  - Gene Transfer and Evolution of the Apicomplexan Genome. University of Chicago, Chicago, IL.
  - Apicomplexan parasites: Perspectives on the evolution of their genomes and their genome databases. University of Toronto, Toronto, Ontario, Canada
- 2005**
- Infectious Disease and Data Integration: Defining the challenges, Exploring the Possibilities. First annual symposium on computational and systems biology, University of Georgia, Athens, GA
  - Bioinformatics, Genomics, and Functional Genomics in Veterinary Science: Viewing the Terrain. Kansas State University, Manhattan, KS
  - Intracellular and Horizontal Gene transfer in the Apicomplexa: The scope and functional Consequences. Duke University, Durham, NC
  - Ok, we have the genome sequence, so now what? Roanoke College, Roanoke, VA.
  - Keynote Speech: Data integration: Defining the Challenges, Exploring the Possibilities. British Society of Parasitology, University of Nottingham, England
  - Intracellular and Horizontal Gene transfer in the Apicomplexa: The scope and functional Consequences, Medical College of Georgia
- 2004**
- Using genomics to assess gene transfer in the Apicomplexa: The functional consequences. XX Annual meeting of the Brazilian Society of Protozoology, Caxambu, Brazil
  - Using genomics to assess gene transfer in the Apicomplexa: The functional consequences. Centro de Pesquisas René Rachou/FIOCRUZ, Belo Horizonte, Brazil
  - Data Integration, defining the challenges, exploring the possibilities. American Society of Microbiology - Functional genomics and bioinformatics approaches to infectious disease research. Portland, Oregon
  - TcruziDB: A project update. Tri-Trypanosome International meeting, Seattle, Washington
  - Horizontal and Intracellular gene transfer in the Apicomplexa : The scope and functional consequences – Genome evolution in microbial eukaryotes symposium, Society of protozoologists, Bryant College, Smithfield, RI
  - Horizontal and Intracellular gene transfer in the Apicomplexa : The scope and functional consequences. Bernhard Nacht Institute of Tropical Medicine, Hamburg, Germany
  - Genomes and databases: Computational approaches to determining the function of Apicomplexan organelles , Obafemi Awolowo University, Ile-Ife , Nigeria
  - Genomes and databases: Computational approaches to determining the function of Apicomplexan organelles, College of Medicine, University of Ibadan, Ibadan, Nigeria
  - Horizontal and Intracellular gene transfer in Apicomplexa – A phylogenomic perspective. IGERT Evolutionary Genomics conference, Tucson, AZ
- 2003**
- Phylogenomic Approaches to Drug Target Discovery in the Apicomplexa: Something Borrowed, Something Green, University of Memphis, Memphis, TN
  - Genomes & Databases – PlasmoDB, the Plastid connection, NC State, Raleigh, NC
  - Genomes & Databases: Computational Approaches to Determining the Function of the Apicomplexan Plastid. Center of Marine Biotechnology, University of Maryland, Baltimore, MD
  - TcruziDB: An Integrated Genome Resource. Tri-Trypanosome Meeting, Hinxton, England
  - Parasites and Their Hosts: Genomes and Databases. CTEGD Symposium Athens, GA
- 2002**
- Genomes & Databases: Computational Approaches to Determining the Function of the Apicomplexan Plastid. University of Maryland, College Park, MD.

- Apicomplexan genome databases: PlasmoDB and ToxoDB, Molecular Parasitology Meeting, Marine Biological Laboratories, Woods Hole, MA.
- A Computational Approach to Organellar Function – Mining Parasite Genomes for Nuclear-encoded Apicoplast Genes, Instituto Gulbenkian de Ciencia, Oerias, Portugal
- Completion of the *Plasmodium falciparum* Genome, The challenges that lay ahead. Gordon Conference, Biology of Host-Parasite Interactions, Newport, RI.
- Genomics in the post-genomics era - the challenge of data integration, UGA/SECSG/IBM Symposium on Structural Genomics and Bioinformatics, University of Georgia, Athens, GA

#### 2001

- A Computational Approach to Organellar Function - Mining Parasite Genomes for Nuclear-Encoded Apicoplast Genes, Washington University, St. Louis, MO.

#### 2000

- Mining Parasite Genomes for Nuclear Encoded Apicoplast Genes - A Computational Approach to Organellar Function, Emory University, Atlanta, GA
- Mining Parasite Genomes for Nuclear Encoded Apicoplast Genes - A Computational Approach to Organellar Function, University of Georgia, Athens, GA
- In search of nuclear-encoded apicoplast genes, mining the *Toxoplasma* and *Plasmodium* genomes. ATCC, Manassas VA.

#### 1996

- Evolutionary Origins of Human *Plasmodium* Species. XII Annual Reunion of the Brazilian Society of Protozoology. Caxambu, Brazil.
- From Microscopes to Molecules: The Evolution of Malaria. Women in Evolution Conference. University of Arkansas, Fayetteville AR.
- Molecular Approaches to the Phylogeny of Malaria, University of Queensland, Brisbane Australia