



www.imaginggenetics.uci.edu

The Annual International Imaging Genetics Conferences focus on the advancement of the new discipline, Imaging Genetics, and the transdisciplinary fusion that is its foundation. The Conferences are two-day meetings which bring together national and international experts in neuroimaging, genetics, data-mining, visualization and statistics, to present their research and findings as they relate to the field of Imaging Genetics. Panel sessions are held on both days of the conference to allow for in-depth discussion of the day's talks between the audience and the speakers. A poster session of presented research from attendees working in the field also takes place on the first day of the conference. Being our 10th anniversary, this is a special celebration, both of what has been accomplished over the past ten years, but more importantly what we can look forward to in the next ten years.

The objective of the International Imaging Genetics Conference is to review the latest progress in understanding brain function by taking an evolutionary and developmental perspective, and novel methods of integrating genomic and imaging data. In support of this objective, the conference provides a unique opportunity for interaction among experts and students in the wide-ranging fields of neuroimaging, genetics, statistical analysis, and clinical studies. These interactions, based on the scientific presentations at the conference, provide the necessary substrate for the novel methods and findings needed by the field to apply to improve clinical diagnosis and treatment.

The Tenth Annual International Imaging Genetics Conference will be held January 20th-21st, 2014 at the Beckman Center of the National Academy of Sciences in Irvine, CA. Sign up for the conference mailing list by emailing: iigc-info@uci.edu.



Steven G. Potkin

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Daniel R. Weinberger

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*Co-Chairs
International Imaging Genetics Conference*

Confirmed Speakers for 2014:

Daniel Weinberger, Lieber Inst. for Brain Development: "Imaging Genetics- What have we learned in 10 years?"

Thomas Nichols, University of Warwick, UK: "Mass Univariate and Multivariate Approaches to Understanding Genetic Variation in the Brain"

Shaun Purcell, Harvard: "Exome sequencing and applications to neuropsychiatric disease"

Jason Moore, Dartmouth: "Multivariate Imaging Genetic Approaches"

Fabio Maciardi, UC, Irvine: "Evolution of brain genes in the hominin lineage in the last 30,000 years"

Judy Cameron, University of Pittsburgh: "Neural systems underlying primate behaviors: An evolutionary perspective"

John Gilmore, University of North Carolina: "Genetic and environmental influences on early childhood brain development"

Gianluca Ursini, University Aldo Moro, Italy and Lieber Inst. for Brain Development: "Genetic-Epigenetic Interactions and Risk for Schizophrenia"

Caroline Zink, Lieber Inst. for Brain Development: "Imaging Genetics of Value in the Ventral Striatum"

Daniel Rujescu, University of Halle, Germany: "Genetics of schizophrenia and intermediate phenotypes"

Andrew Saykin, Indiana University: "Looking ahead on integrating NGS and quantitative phenotypes in AD"

Registration- Discounted registration fees for all students, and UC Faculty / Staff!
Please register by clicking on the registration link of www.imaginggenetics.uci.edu.

Objectives for the 10th IIGC:

At the conclusion of this activity the participant should be able to:

1. Describe what epigenetic factors are and how they may influence risk of developing schizophrenia.
2. Identify examples of environment modifying genes that influence brain development.
3. Identify examples of how deep genome sequencing can lead to a better understanding of risk genes for Alzheimer's disease.
4. Discuss how neural systems underlying primate behavior are applicable in understanding human behavior.

Americans with Disabilities: The International Imaging Genetics Conference at the University of California, Irvine College of Medicine complies with the Americans with Disabilities Act. Please contact Liv McMillan at iigc-info@uci.edu with any questions or requests. Every reasonable effort will be made to accommodate your needs.

California Assembly Bill 1195: This activity is in compliance with [California Assembly Bill 1195](#) which requires continuing medical education activities with patient care components to include curriculum in the subjects of cultural and linguistic competency.

Disclosure Policy: It is the policy of the University of California, Irvine School of Medicine and the University of California CME Consortium to ensure balance, independence, objectivity and scientific rigor in all CME activities. Full disclosure of conflicts and conflict resolutions will be made prior to the activity in writing via handout materials, insert, or syllabus.



Commercial Support for the 10th IIGC



We wish to thank Lundbeck, Otsuka, Amgen, EnVivo, and Genentech for their grants in support of this activity.

CME Accreditation

The University of California, Irvine School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

CME Designation

The University of California, Irvine School of Medicine designates this live activity for a maximum of 14 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

For additional information, please contact: Liv McMillan, University of California, Irvine, iigc-info@uci.edu.

SOLAR-Eclipse Workshop Tuesday afternoon January 21st, 2014:

SOLAR is an extensive, flexible software package for genetic variance components analysis, including linkage analysis, quantitative genetic analysis, SNP association analysis (QTN and QTLD), and covariate screening. Operations are included for calculation of marker-specific or multipoint identity-by-descent (IBD) matrices in pedigrees of arbitrary size and complexity, and for linkage analysis of multiple quantitative traits and/or discrete traits which may involve multiple loci (oligogenic analysis), dominance effects, household effects, and interactions. Additional features include functionality for mega and meta-genetic analyses where data from diverse cohorts can be pooled to improve statistical significance. Please see the workshop page of the website for the full agenda.

Please register for the 10th IIGC by clicking on the registration link of www.imaginggenetics.uci.edu.