The International Imaging Genetics Conferences focus on the advancement of the new discipline, Imaging Genetics, and the transdisciplinary fusion that is its foundation. Combining these disciplines has clear advantages given that the genetic background is clearly related to mental illness as well as clinical efficacy and development of side-effects. The Conferences are 2 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. Posters of research from attendees working in the field are presented on the first day of the conference. This is a unique conference addressing the role of genes on brain function in neuropsychiatric illness, and patient response to treatment.

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 11th Annual International Imaging Genetics Conference will be held January 19th and 20th, 2015 at the Beckman Center of the National Academy of Sciences in Irvine, CA.

Confirmed Speakers for 2015:

Ole Andreassen, University of Oslo, Norway: "Boosting the power of schizophrenia genetics by leveraging new statistical tools"
Ryan Bogdan, Washington University in St. Louis: "Stress and Risk for Psychopathology: Bringing the Environment to Imaging Genetics”"
Dwight Dickinson, National Institute of Mental Health: "Cognition, mental illness and genetics: what is the phenotype?"
David Glahn, Yale University: "Searching for Psychosis Genes Using Neurocognitive and Neuroimaging Endophenotypes"
Raquel Gur, Univ. of Pennsylvania: "Integration of Phenotypic and Genomic Data in a Developmental Cohort."
Derrek Paul Hibar, Univ. of Southern California: "Neuroimaging Genetics in the ENIGMA Consortium with Applications to OCD Research"
Geoffrey Manley, UCSF and San Francisco General Hospital: "Imaging and Genetic Strategies to Separate PTSD and TBI”
Alexander Niculescu, Indiana University School of Medicine: "Convergent Functional Genomics and Phenomics of Psychiatric Disorders”
Matthew Stephens, University of Chicago: "Genetic association analysis with functional phenotypes via wavelet methods”
Jessica Turner, Georgia State University: "Structural imaging genetics in schizophrenia: From voxels to volumes to networks”
Daniel Weinberger, Lieber Inst. for Brain Development: "Statistical association to molecular mechanisms of risk in neurodevelopmental disorders”

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 11th IIGC:
At the conclusion of this activity the participant should be able to:

1. Develop an appreciation for the interplay of multiple genes and risk factors in producing schizophrenia.
2. Better evaluate the literature findings of genetic associations with cognitive performance.
3. Identify evidence for various types of genetic variation increasing the risk for illness.
4. Describe various strategies to treat PTSD and TBI when they occur together or as separate entities.

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 Imaging Genetics Conference

We wish to thank Otsuka and FORUM Pharmaceuticals 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 20th, 2015:
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. The workshop starts with introduction to the basic concepts of genetics such as heritability and additive genetic variances and shows how these hypotheses can be tested in genetic imaging data using SOLAR-Eclipse software. Advance application including homogenization of the data and performing multi-site analysis of candidate genes and using permutation based inference of statistical significance of genetic effects will be discussed. Please see the workshop page of the website for the full agenda.

Please register for the 11th IIGC by clicking on the registration link of www.imaginggenetics.uci.edu.