COURSE DESCRIPTION
This course offers a broad array of lecture topics beginning with a review of basic genomics and progressing to clinical applications. It is designed for individuals with an interest in understanding the ways in which genes not only affect mental illness, but impact disease course and prognosis. Pharmacogenetic principles that guide the treatment of psychiatric illness will be specifically highlighted.

COURSE LEARNING OBJECTIVES
Upon completion of this activity, participants should be able to:

• Explain the key structural gene variations that are associated with a change in gene function.
• Explain the importance of polymorphisms in human psychiatric disease and their usefulness in devising treatment strategies.
• Interpret pharmacogenomic test results and communicate the findings to patients and families.
• Identify salient genomic variability associated with psychotropic medication response.
• Describe the key gene variations associated with the treatment of alcohol disorders.
• Recognize the clinical benefits of pharmacogenomic testing for the management of pharmacotherapy in a clinical psychiatric practice.

INTENDED AUDIENCE
The target audience will be psychiatrists, psychologists, other mental health workers, neurologists, and medical geneticists interested in the genomic influences on psychiatric illnesses including bipolar disorder, schizophrenia, chemical dependency and major depressive disorder. Special requirements are a strong interest in genomics, an understanding of genetics, and an awareness of the human genome project.

CREDIT
College of Medicine, Mayo Clinic, is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

College of Medicine, Mayo Clinic, designates this live activity for a maximum of 18 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

LOCATION
Course headquarters will be located in Leighton Auditorium on the second floor of the Siebens Medical Education Building, Mayo Clinic, 100 Second Avenue Southwest, Rochester, Minnesota.

REGISTRATION
To register, complete the attached registration form and return by mail or fax. The registration fee of $395 (clinicians & researchers) and $450 (residents & students) includes tuition, comprehensive electronic course syllabus, continental breakfasts and all break refreshments, opening night reception, and course dinner. The cost for parking is not included in the registration fee. Early registration is strongly advised. A reduced registration fee of $495 (clinicians & researchers) and $370 (residents & students) is offered until July 9, 2012. A letter of confirmation will be sent upon receipt of payment and completed registration form. Please present your confirmation letter when checking in at the meeting registration desk.

CANCELLATION POLICY
If you cancel your participation in this course, your registration fee, less a $75 administrative fee, will be refunded when written notification is received by Mayo School of Continuous Professional Development (CPD) before July 25, 2012 (fax#: 507-284-0532). No refunds will be made after July 25, 2012.

Mayo School of CPD reserves the right to cancel or postpone any course due to unforeseen circumstances. In the unlikely event Mayo School of CPD must cancel or postpone this course, Mayo School of CPD will refund the registration fee, but is not responsible for any related costs, charges, or expenses to participants, including fees assessed by airline/travel/lodging agencies.

TRAVEL
Rochester, Minnesota is a friendly city that greets thousands of visitors from around the world each year. Access to and from the airport is provided by taxi, shuttle service, and rental car. The airport is located approximately 10 miles from the Mayo Clinic campus.

Note to travelers: Several cities in the United States are named Rochester. When you make airline reservations and check your baggage, be sure that your destination is Rochester, Minnesota (RST) and that your baggage has been properly tagged.

Travel arrangements are the sole responsibility of the individual registrant.

LODGING ACCOMMODATIONS
Guest rooms have been reserved for attendees and their guests with special course rates at each of the following downtown Rochester hotels. In order to receive the special rate, reservations must be made before the room block is filled or before the expiration date of July 18th, whichever comes first. Reservations will be taken following this date based on space and rate availability. Please identify yourself as a participant of the Psychiatric Genomics course when making your reservation.
Doubletree By Hilton
150 South Broadway
Rochester, MN 55904
507-281-8000
$124 single/double

Hilton Garden Inn
225 South Broadway
Rochester, MN 55904
800-445-8667 or 507-285-1234
$109 single/double

COURSE FACULTY
Mayo Clinic Course Director
David A. Mrazek, M.D., F.R.C.Psych.

Mayo Clinic Course Co-Director
Daniel K. Hall-Flavin, M.D.

Mayo Clinic Course Faculty
J. Michael Bostwick, M.D.
Ralitza H. Gavrilova, M.D.
Mark A. Frye, M.D.
Daniel K. Hall-Flavin, M.D.
Peter S. Jensen, M.D.
Victor M. Karpyak, M.D., Ph.D.
Richard M. Weinshilboum, M.D.
Eric D. Wieben, Ph.D.

Guest Faculty
John Kelsoe, M.D.
Professor of Psychiatry, University of California San Diego School of Medicine

James T. McCraken, M.D.
Professor in Residence and Director UCLA Neuropsychiatric Institute and Hospital

James L. Kennedy, M.D., F.R.C.P.C.
Professor, and Head, Neuroscience Program, Dept. of Psychiatry University of Toronto

Professor of Behavioral & Brain Sciences Institute of Child Health United Kingdom

Program Schedule
THURSDAY, AUGUST 9, 2012

7:00-8:00 AM  Registration and Continental Breakfast
Leighton Auditorium Foyer
Siebens Medical Education Building, 2nd Floor

8:00-8:45 AM  Welcome, Clinical Case Presentation and Summarize Genetic Testing Results
David A. Mrazek, M.D., F.R.C.Psych.

8:45-9:30 AM  A Review of Basic Genomics
Eric D. Wieben, Ph.D.

9:30-9:45 AM  Question and Answers
9:45-10:15 AM  Refreshment Break
10:15-11:00 AM  Cytochrome P450 Drug Metabolizing Genes
David A. Mrazek, M.D., F.R.C.Psych.

11:00-11:15 AM  Questions and Answers
11:15 AM-12:00 PM  Integration of Pharmacogenomics and Pharmacometabolomics
Richard Weinshilboum, M.D.

12:00-12:15 PM  Questions and Answers
12:15-1:30 PM  Lunch on your own
1:30-2:30 PM  Genetic Variation and Human Behavior

2:30-2:45 PM  Questions and Answers
2:45-3:30 PM  Understanding Genotype-Phenotype connections – A case for addiction psychiatry
Victor M. Karpyak, M.D., Ph.D.

3:30-3:45 PM  Questions and Answers
3:45-4:15 PM  Break
4:15-5:00 PM  Clinical Case Discussion
Brett Koplin, M.D.

5:00-5:15 PM  Question and Answers
6:30-8:00 PM  Opening Night Reception
Hage Atrium; Subway level of Siebens Building

David A. Mrazek, M.D., F.R.C.Psych.
FRIDAY, AUGUST 10, 2012

7:00-8:00 AM Continental Breakfast
Leighton Auditorium Foyer

8:00-8:45 AM Introduction to Psychiatric Pharmacogenomics
David A. Mrazek, M.D., F.R.C.Psych.

8:45-9:00 AM Questions and Answers

9:00-10:45 AM Genetics in Huntington's disease
Ralitza H. Gavriolova, M.D.
J. Michael Bostwick, M.D.

10:30-10:45 AM Questions and Answers

10:45-11:15 AM Break

11:15 AM-12:00 PM The Genetics of Psychosis
John Kelsoe, M.D.

12:00-12:15 PM Questions and Answers

12:15-1:30 PM Lunch on your own

1:30-2:15 PM Pharmacogenomics of the Treatment of Schizophrenia
James L. Kennedy, M.D., F.R.C.P.C.

2:15-2:30 PM Questions and Answers

2:30-3:15 PM Pharmacogenomic Testing of Bipolar Disorder
John Kelsoe, M.D.

3:15-3:30 PM Questions and Answers

3:30-4:00 PM Break

4:00-4:45 PM Pharmacogenomics in the Treatment of ADHD
James McCracken, M.D.

4:45-5:00 PM Questions and Answers

5:00 PM Adjourn

6:30-8:00 PM Course Dinner
Doubletree Hotel
150 South Broadway
Rochester, MN 55904

SATURDAY, AUGUST 11

7:00-8:00 AM Continental Breakfast
Leighton Auditorium

8:00-8:45 AM Pharmacogenomics for Pediatric Populations
James McCracken, M.D.

8:45-9:00 AM Questions and Answers

9:00-9:45 AM The Genetics of Autism

9:45-10:00 AM Questions and Answers

10:00-10:30 AM Break

10:30 AM-12:30 PM Panel Discussion
James McCracken, M.D.
John Kelsoe, M.D.
Eric D. Wieben, Ph.D.
Victor M. Karpyak, M.D., Ph.D.
Peter S. Jensen, M.D.
Richard Weinshilboum, M.D.
David A. Mrazek, M.D., F.R.C.Psych.
James L. Kennedy, M.D., F.R.C.P.C.

12:30-12:45 PM Wrap up
David A. Mrazek, M.D., F.R.C.Psych.
Psychiatric Genomics: Applications for Clinical Practice
August 9-11, 2012 • Mayo Clinic, Leighton Auditorium, Siebens Medical Education Building • Rochester, MN
Submit online registration at http://www.mayo.edu/cme/psychiatry-and-psychology

Mail form and payment to:
Mayo School of Continuous Professional Development
Plummer 2-60
200 First Street SW - Rochester, MN 55905
Phone 800-323-2688 or 507-284-2509
FAX 507-284-0532
E-mail cme@mayo.edu

Contact Information (Please print or type all information. You may duplicate this form for multiple registrations.)

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If you have special assistance needs or dietary restrictions, describe here:

| Type of credit that you are interested in receiving: | ☐ AMA/Category |

Registration Fee:
Clinicians and Researchers – $595 ($495 if received by July 9)
Residents and Students – $450 ($370 if received by July 9)

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Credit Card - select one
☐ Discover ☐ MasterCard ☐ Visa

Check is enclosed in the amount shown at right - make checks payable to Mayo Foundation

Account Number

Exp Date - mm/yy

Name of Cardholder - as appears on the card

Signature of Cardholder - required
11th Annual
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August 9 - 11, 2012

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Phone: 800-323-2688 (toll-free)
E-mail: cme@mayo.edu
Facebook: http://www.facebook.com/MayoClinicPsychCME

If you already received a copy of this brochure, please give this brochure to an interested colleague.