

American Association for Clinical Chemistry
Improving healthcare through laboratory medicine

Molecular Pathology Division NEWSLETTER

Message from the Chair

Submitted by Greg Howe, Ph.D. Chair, MPD

The 2011 Annual AACC & Clinical Lab Expo (July 24-28) at the Georgia World Congress Center in Atlanta, Georgia will be upon us soon. The annual meeting is an important gathering for learning about of the most recent scientific and industry advances in molecular pathology as well as laboratory medicine in general. The time at the meeting is perfect for networking and catching up with friends and reintroducing ourselves to acquaintances from previous meetings.



This year's meeting is located in downtown Atlanta, an area I have visited several times. If it's your first time in Atlanta, some of the most well known attractions will be within easy walking distance of the Georgia World Congress Center and most hotels, and include the Georgia Aquarium, Inside CNN Atlanta, Centennial Olympic Park, and World of Coca-Cola. Enjoy them. It is important to take time out from the more serious activities going on at the annual meeting.

There are also many other attractions nearby, however some will require a car, including the Martin Luther King Jr. National Historic Site, Fernbank Museum of Natural History, Atlanta Botanical Garden, High Museum of Art, Atlanta History Center and Zoo Atlanta. You may also want to pursue less refined activities therefore I would suggest catching a baseball game at the Turner Stadium just south of downtown

or shop at the Perimeter Mall or Lenox Square shopping centers located outside of the downtown area. Enjoy your time at the meeting and I hope to see you there.

At the annual meeting MPD has developed several events which are described below:

- **MPD Board of Directors Meeting.** Tuesday, July 26th, 2011; 3:30-4:30pm, Hyatt Regency Atlanta, Hanover Hall F
- **MPD Annual General Membership Meeting.** Tuesday, July 26th, 2011; 4:30pm-5:30pm, Hyatt Regency Atlanta, Hanover Hall F
- **Joint MPD/Pediatric Maternal-Fetal/Industry/Clinical Translational Divisional Award and Mixer.** Tuesday, July 26th, 2011; 6:00pm-8:00pm, Hyatt Regency Atlanta, International Ballroom- South
- **MPD 2011 Awards Finalists:** The MPD Science and Education Committee (SEC), chaired by Jerry Yeo, has reviewed the submitted abstracts for consideration, and has selected 2-3 finalists in each category to present their respective posters on **Monday, July 25, 12.00pm- 1.30pm** at the Hyatt Regency Atlanta, Hanover Hall F. Based on the authors' presentations a winner in each category will be chosen by the committee. The finalists in each category are as listed below in the SEC report.

More details of events of interest to MPD members are described below. So please take a look at the rest of the newsletter.

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2011 MPD Award Finalists

Submitted by K.T. Jerry Yeo, Ph.D., Chair, Science and Education Committee, MPD

The MPD Science & Education Committee has recently selected the following individuals who submitted abstracts to the annual AACC meeting for consideration for the following MPD Awards:

A. Outstanding Research Award Finalists (\$1000 for Winner)

- Amy Fox, MD (Montefiore Medical Center, Bronx, NY): A-103, *Assessment and Comparison of Hepatitis C Virus (HCV) Load Assays in Patients with Genotypes 2, 3, & 4 in an at risk population*
- Doaa Hashad, MD (Alexandria, Egypt): A-22, *Role of GSTP1 Hypermethylation in Molecular Detection of Prostate Cancer*

B. Young Investigator Award Finalists (\$750 for Winner)

- Octavia Peck-Palmer, PhD (University of Pittsburg Medical Center, Pittsburg): *Identification of Host Transcriptomic Differences between Black and White Individuals with Community Acquired Pneumonia and Severe Sepsis*
- Grigory Tsaur, MD, PhD (Institute of Medical Cell Technologies, Russia): B-79, *Treatment Outcome in pH-negative BCR-ABL-positive Chronic Myeloid Leukemia (CML) Patients.*
- Stacy Melanson, MD (Brigham & Women Hospital, Boston): C-69, *Markedly Reduced Overall Survival of CYP2C19 *2/*2 Homozygotes After Myeloablative Hematopoietic Stem Cell Transplantation*

C. Student/MT Award Finalist (\$500 for Winner)

- Eun Kyung, PhD (Seoul National University Hospital, Korea): B-85, *Development of amplicon-based targeted resequencing for large-sized genes using next generation sequencing technology: an example of BRCA1/BRCA2*

Congratulations to all finalists! In order to be considered for the awards, please read the rules below:

1. Present your poster (oral presentation with the poster displayed) on Monday, July 25th, from 12pm-1:30pm at the following location: Hyatt Regency Atlanta, (Hanover Hall-F), 265 Peachtree Street NE, Atlanta, GA 30303-1294, (404) 577-1234. Please arrive 15 minutes early to put up your poster at the Hyatt.
2. Failure to show up for the oral presentation on July 25th will automatically disqualify you from being considered for the award.
3. **Please be aware that an award may not be given if the judges ascertain that none of the finalists' poster presentations meet the quality and scientific merits of the award. The judges' decision is final and no appeal will be considered.**



SEEKING NOMINATIONS FOR MPD OFFICERS

With the election season starting this fall we will be looking for nominations for officers. MPD will need nominations for several new officers including Chair-elect, Treasurer and two members of the Nominating committee. Please send names to our nominating committee or to the Chair of MPD (contact info on last page of newsletter).

AACC Annual Meeting 2011

Sessions of Potential Interest to MPD Members

*Programs developed in cooperation with the MPD

Sunday, July 24, 2011

1:30 p.m.—4:00 p.m. Afternoon Short Course

191012 **The Base-ics of Nucleic Acid Testing**, Moderator Gregory Tsongalis, PhD, HCLD, *Dartmouth Medical School, Dartmouth-Hitchcock Medical Center, Norris Cotton Cancer Center, Lebanon, NH*

Afternoon Speakers

- **Introduction to Nucleic Acid Biochemistry and Molecular Diagnostic Technologies.** Gregory Tsongalis, PhD, HCLD, *Dartmouth Medical School, Dartmouth-Hitchcock Medical Center, Norris Cotton Cancer Center, Lebanon, NH*
- **Molecular Technologies and Their Clinical Applications.** Andrea Ferreira-Gonzalez, PhD, *Virginia Commonwealth University, Richmond, VA*

5:00 p.m.—6:30 p.m. Opening Plenary

11011 **Inherited Breast and Ovarian Cancer: Fulfilling a Promise of Personalized Genomic Medicine**, Mary-Claire King, Ph.D., *University of Washington, Seattle, WA*

6:45 p.m.—8:00 p.m. Opening Mixer, Hyatt Regency Atlanta

Monday, July 25, 2011

7:30 a.m. — 8:30 a.m., Brown Bag Sessions

42116 **The Basics of KRAS, BRAF, and EGFR Mutations: Predictive Markers for Targeted Cancer Therapies**, Joel Lefferts, Ph.D., *Dartmouth-Hitchcock Medical Center, Lebanon, NH*

42109 **Hepatitis C Virus: Epidemiology, Diagnosis, and Patient Management**, Peter Chou, Ph.D., DABCC, FACB, *Quest Diagnostics Nichols Institute, Chantilly, VA.*

10:30 a.m.—12:00 p.m., Morning Symposium

32103 **Molecular Diagnostics and Molecular Genetics of Thyroid Cancers**. Moderator Manjula Gupta, PhD, *Cleveland Clinic Foundation, OH*

Morning Speakers

- **TSHR mRNA, A Novel Blood Test for Preoperative/Recurrent Thyroid Cancer Detection.** Manjula Gupta, Ph.D., *Cleveland Clinic Foundation, OH*
- **Genetic and Epigenetic Alterations in Papillary Thyroid Carcinoma**, Bin Yang, MD, PhD, *Cleveland Clinic Foundation, OH*
- **Clinical Application of Emerging Molecular Testing in Thyroid Cancer: Clinician's Perspective**, Mira Milas, MD, Director, *The Thyroid Center, Cleveland Clinic Foundation, OH*

12:30—1:30 p.m., Brown Bag Sessions

52116 **The Basics of KRAS, BRAF, and EGFR Mutations: Predictive Markers for Targeted Cancer Therapies**, Joel Lefferts, Ph.D., *Dartmouth-Hitchcock Medical Center, Lebanon, NH*

52109 **Hepatitis C Virus: Epidemiology, Diagnosis, and Patient Management**, Peter Chou, Ph.D., DABCC, FACB, *Quest Diagnostics Nichols Institute, Chantilly, VA.*

2:30 p.m. — 5:00 p.m., Afternoon Symposium

32213 **Laboratory Testing for Efficacy of Antiplatelet Therapy**, Moderator Allan Jaffe, M.D., *Mayo Clinic, Rochester, MN*

Afternoon Speakers

- **Point of Care Analysis of Platelet Function—How it is Done.** Paula Santrach, MD, FCAP, FACB, *Mayo Clinic, Rochester, MN*
- **The Case For and Against the Use of Platelet Function Analysis to Guide Antiplatelet Therapy.** Patricia Best, MD, *Mayo Clinic, Rochester, MN*
- **The Case For and Against the Use of Genetic Analysis to Guide Antiplatelet Therapy.** Allan Jaffe, MD, *Mayo Clinic, Rochester, MN*

Tuesday, July 26, 201110:30 a.m. – 12:00 p.m., Morning Symposia

*33104 **Direct-to-Consumer Genetic Testing: Opening Pandora's Box?** Moderator KT Jerry Yeo, PhD, DABCC, FACB, *University of Chicago*, IL

Morning Speakers

- **Genetic Risk tests for the Common Diseases: For Physician Eyes Only?** Kari Steffanson, MD, DrMed, *DeCode Genetics*, Reykjavik, Iceland
- **Bioethical and Clinical Dilemmas of Direct-to-Consumer Personal Genomic Testing: The Problem of Misattributed Equivalence.** Charis Eng, MD, PhD, Hardis Professor and Chair, *Cleveland Clinic Lerner Research Institute & Genomic Medicine Institute*, OH

*33106 **A Half Century of the Discovery of the Philadelphia Chromosome: Impact on Cancer Diagnostics and Treatment.** Moderator John Howe, PhD, *Yale University School of Medicine*, New Haven, CT

Morning Speakers

- **BCR-ABL PCR in CML: The Paradigm for Molecular Monitoring of Targeted Cancer Therapy.** Richard Press, MD, PhD, *Oregon Health Sciences Univ.*, Portland
- **Historical and Current Status of Drug Development and Treatment of CML.** Michael Mauro, MD, *Knight Cancer Institute, Oregon Cancer Institute, Oregon Health & Science University*, Portland

2:30 p.m. – 5:00 p.m., Afternoon Symposium

33218 **Perspectives on the Diagnosis of Hemoglobinopathies and Thalassemias**, Moderator Trefor Higgins, MSc, FCACB, *DynaLifeDx*, Edmonton, Canada

Afternoon Speakers

- **A Geneticist's Perspective.** Vip Viprakasit, MD, DPhil (Oxon), *Siriraj Hospital*, Bangkok, Thailand
- **A Hematologist's Perspective.** Gwen Clarke, *Royal Alexandra Hospital*, Edmonton, Canada
- **An Analyst's Perspective.** Trefor Higgins, MSc, FCACB, *DynaLifeDx*, Edmonton, Canada Kimberle Chapin, MD, D(ABMM), FCAP, *Lifespan Academic Medical Centers*, Providence, RI

10:30 a.m. – 5:00 p.m., Full Day Short Course

73302 **Personalized Medicine in Cancer Management: Old and New Roles of Tumor Markers.** Moderator George Yousef, MD, PhD, FRCPC, MSc, *St Michaels Hospital*, Toronto, ON, Canada

Morning Speakers

- **The Principles of Using Tumor Markers in the Clinic.** George Yousef, MD, PhD, FRCPC, MSc, *St Michaels Hospital*, Toronto, ON, Canada
- **National Academy of Clinical Biochemistry Practice Guidelines for the Use of Tumor Markers in the Clinic.** Maria Diamandis Pasic, PhD, ON, Canada
- **Tumor Markers: Pitfalls and Real Life Scenarios.** Eleftherios Diamandis, MD, PhD, FRCPC, *Mount Sinai Hospital and University Health Network*, Toronto, ON, Canada

Afternoon Speakers

- **Stepping into the Era of Personalized Medicine: Novel Tools and Applications for Better Cancer Management.** George Yousef, MD, PhD, FRCPC, MSc, MBBCh, *St. Michael's Hospital*, Toronto, ON, Canada
- **The Role of Proteomics in Personalized Medicine.** Eleftherios Diamandis, MD, PhD, FRCPC, *Mount Sinai Hospital and University Health Network*, Toronto, ON, Canada
- **Personalized Medicine: Fantasy or Reality: the Essential Phases of Implementation and Practical Challenges Facing the Era of Personalized Medicine.** Gregory Tsongalis, PhD, HCLD, *Dartmouth Medical School, Dartmouth-Hitchcock Medical Center, Norris Cotton Cancer Center*, Lebanon, NH
- **Personalized Medicine: Real Life Applications and Future Prospective.** Maria Diamandis Pasic, PhD, ON, Canada

2:30 p.m. – 5:00 p.m., Afternoon Short Course

73211 **Clinical Translational Science: Providing Innovative Diagnostics Tools**, Moderator Vincent Ricchiuti, PhD, *Brigham and Women's Hospital*, Boston, MA

Afternoon Speakers

- **Circulating Tumor Cell Analysis and Personalization of Treatment.** Martin Fleisher, PhD, FACB, *Memorial-Sloan Kettering Cancer Center*, New York, NY

- **Human Proteomic Arrays: Unlocking Biomarker Discovery for Serious Diseases.** Larry Gold, PhD, *SomaLogic, Inc.*, Boulder, CO
- **Exosomes- A New Paradigm for Body Fluid Based Gene-Based Diagnostics.** Johan Skog, *Exosome Diagnostics, Inc.*, New York

2:30 p.m. – 5:00 p.m., Afternoon Interactive Workshop

23213 **Genetic Testing: Principles Applied to Case Studies.** Moderator Jeffrey Kant, MD, PhD, *University of Pittsburgh Medical Center*, PA

Afternoon Speakers

- **Genetics Testing Principles, Clinical Consulting and the Economy of Genetics Testing.** Jeffrey Kant, MD, PhD, *University of Pittsburgh Medical Center*, PA
- **Case Studies Related to Simple Genetics Tests.** Daniel Bellissimo, PhD, FACMG, *BloodCenter of Wisconsin*, Milwaukee

Wednesday, July 27, 2011

7:30 a.m. – 8:30 a.m., Brown Bag Sessions

44104 **Pharmacogenetics and Infectious Disease,** Patricia Slev, PhD, DABCC, *ARUP/University of Utah*, Salt Lake City, UT

44110 **Emerging Biomarkers for Drug Hypersensitivity Reactions,** Kara Lynch, PhD, DABCC, *University of California/San Francisco General Hospital*, CA

44115 **Using Laboratory Algorithms for the Diagnosis of Celiac Disease,** Melissa Snyder, PhD, DABCC, *Mayo Clinic*, Rochester, MN

44119 **The Pharmacogenomic of Anticancer Agents: New Roles for Laboratory Medicine and Clinicians,** Majid Moridani, PharmD, PhD, DABCC, FACB, *National Jewish Health*, Denver

10:30 a.m. – 5:00 p.m., Full Day Symposium

*34302 **New Analytes/New Methods: What's Next in Genetic Testing, Moderator.** Linnea Baudhuin, PhD, DABMG, *Mayo Clinic*, Rochester, MN

Morning Speakers

- **An Introduction To and Hot Topics in Molecular Genetics: 5' to 3' in Forty Minutes.** Timothy

Uphoff, PhD, DABMG, *Marshfield Clinic Laboratory*, WI

- **Next Generation Sequencing: Promises and Pitfalls for the Clinical Lab.** Matthew Ferber, PhD, FACMG, *Mayo Clinic*, Rochester, MN Salvatore Salamone, PhD, *Saladax Biomedical Inc*, Bethlehem, PA

Afternoon Speakers

- **Circulating, Cell Free, Fetal Nucleic Acids as an Object of Clinical Laboratory Investigation.** Daniel Farkas, PhD, HCLD, FACB, *Center for Molecular Medicine*, Grand Rapids, MI
- **What Have We Learned from Chromosomal Microarray and Copy Number Variation?** Erik Thorland, PhD, *Mayo Clinic*, Rochester, MN
- **Development, Validation, and Implementation of MicroRNA-Based Laboratory Developed Tests (LDTs).** Anna Schwarzbach, MS, PhD, MB(ASCP), CQ NYS, *Asuragen, Inc.*, Austin, TX

10:30 a.m. – 12:00 p.m., Morning Symposium

34103 **A Debate: Warfarin Sensitivity Genotyping Will Replace INR for Management of Warfarin Dosing.** Moderator Thomas Moyer, PhD, *Mayo Clinic*, Rochester, MN

Morning Speakers

- **Argument Favoring INR.** Paula Santrach, MD, FCAP, FACB, *Mayo Clinic*, Rochester, MN
- **Argument Favoring Warfarin Sensitivity Genotyping.** Thomas Moyer, PhD, *Mayo Clinic*, Rochester, MN

12:30–1:30 p.m., Brown Bag Sessions

54104 **Pharmacogenetics and Infectious Disease,** Patricia Slev, PhD, DABCC, *ARUP/University of Utah*, Salt Lake City, UT

54110 **Emerging Biomarkers for Drug Hypersensitivity Reactions,** Kara Lynch, PhD, DABCC, *University of California/San Francisco General Hospital*, CA

54115 **Using Laboratory Algorithms for the Diagnosis of Celiac Disease,** Melissa Snyder, PhD, DABCC, *Mayo Clinic*, Rochester, MN

54119 **The Pharmacogenomic of Anticancer Agents: New Roles for Laboratory Medicine and Clinicians,** Majid Moridani, PharmD, PhD, DABCC, FACB, *National Jewish Health*, Denver

2:30 p.m. – 5:00 p.m., Afternoon Symposium

*34213 **2011 AACC/ASCLS Healthcare Forum**, Moderator Don Lavanty, JD, *J.T. Rutherford and Associates*, Arlington, VA

Afternoon Speakers

- **Legislative and Regulatory Challenges Facing Clinical Labs.** Elissa Passiment, EdM, CLS (NCA), *ASCLS*, Bethesda, MD
- **FDA Oversight of Laboratory Developed Tests: What's on the Horizon.** Alberto Gutierrez, PhD, *FDA/CDRH*, Rockville, MD
- **Why Comparativeness Effectiveness Research is Important to Clinical Laboratories.** Mary Nix, MS, MT(ASCP)SBB, *Agency for Healthcare Research and Quality*, Rockville, MD
- **How New Medicare Payment Models Could Transform Laboratory Operations.** Charles Root, PhD, *CodeMap LLC*, Schaumburg, IL

10:30 a.m. – 5:00 p.m., Full Day Short Course

*74301 **Advanced Applications of Molecular Diagnostics and Pharmacogenomics in Targeted Therapeutics**, Moderator Steven Wong, PhD, DABCC (TC), FACB, *Wake Forest University School of Medicine*, Winston-Salem, NC

Morning Speakers

- **Applications of miRNAs in Clinical Practice.** Gregory Tsongalis, PhD, HCLD, *Dartmouth Medical School, Dartmouth-Hitchcock Medical Center, Norris Cotton Cancer Center*, Lebanon, NH
- **Validation of Tests with Targeted Therapeutic Implications in Oncology.** Helen Fernandes, PhD, *UMDNJ-New Jersey Medical School*, Newark

Afternoon Speakers

- **Advanced Hematopathology Molecular Diagnostics and Targeted Therapy.** John Howe, PhD, *Yale University School of Medicine*, New Haven, CT
- **Clinical and Forensic Pharmacogenomics of Drug Metabolizing Enzymes, Transporters and Receptors.** Steven Wong, PhD, DABCC (TC), FACB, *Wake Forest University School of Medicine*, Winston-Salem, NC
- **Application of Next Generation Sequencing in Clinical Practice.** Andrea Ferreira-Gonzalez, PhD, *Virginia Commonwealth University*, Richmond

Thursday, July 28, 201112:30 p.m.—2:00 p.m. Plenary

15001 **Pharmacogenetics to Pharmacogenomics**, Richard Weinshilboum, MD, *Mayo Clinic*, Rochester, MN



Mark Your Calendars!

MPD Events at AACC 2011 Annual Meeting

Monday, July 25, 12:00-1:30 p.m. **MPD 2011 Awards Finalists Poster Presentations**, Hyatt Regency Atlanta (Hanover Hall F)

Tuesday, July 26, 3:30-4:30 p.m., **MPD Board of Directors Meeting**, Hyatt Regency Atlanta (Hanover Hall F)

Tuesday, July 26, 4:30-5:30 p.m., **MPD General Membership Meeting**, Hyatt Regency Atlanta (Hanover Hall F)

Tuesday, July 26, 6:00-8:00 p.m., **Joint MPD/Pediatric Maternal-Fetal/Industry/Clinical Translational Divisional Award and Mixer**, Hyatt Regency Atlanta (International Ballroom South)
(Awards will be presented during this event)

Molecular and Translational Medicine
 Series Editors: William B. Coleman - Gregory J. Tsongalis

Alan H.B. Wu - K.T. Jerry Yeo Editors
Pharmacogenomic Testing in Current Clinical Practice
 Implementation in the Clinical Laboratory

Wu • Yeo Eds.

While the basic principles of personalized medicine and pharmacogenomics have been covered by numerous texts, there are none to date that focus on the specific tests themselves that are in current clinical practice and those that are being proposed for implementation in the near future. *Pharmacogenomic Testing in Current Clinical Practice: Implementation in the Clinical Laboratory* focuses almost entirely on the specifics of each test that is needed to implement these tests into a clinical laboratory. This volume presents the first compilation of the tests currently in routine clinical use. The chapter authors of this unique and invaluable title comprise a range of renowned authorities and investigators who have conducted the essential clinical trials necessary to justify pharmacogenomic testing today. The book is divided into four parts: Basic Concepts, Specific Pharmacogenomic Targets, Drugs that Cause Delayed Hypersensitivity, and Miscellaneous Drugs. Each author provides a pharmacologic background on the target drug, the need for pharmacogenomic testing, and how results can be translated into clinical decisions. Where appropriate, case studies are given to illustrate typical clinical scenarios. An extensive bibliography is provided so that the reader can refer to the original studies. This well-designed resource will appeal to clinical laboratory directors who are contemplating or assigned the task of establishing a pharmacogenomics laboratory and a wide range of clinicians who must interpret results of testing. Focused and immensely useful, *Pharmacogenomic Testing in Current Clinical Practice: Implementation in the Clinical Laboratory* is a timely and outstanding contribution to the literature and will be instrumental in defining this rapidly growing field.



Pharmacogenomic Testing in
 Current Clinical Practice

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 Series Editors: William B. Coleman - Gregory J. Tsongalis

Alan H.B. Wu
 K.T. Jerry Yeo Editors

Pharmacogenomic Testing in Current Clinical Practice

Implementation in the Clinical Laboratory

Humana Press

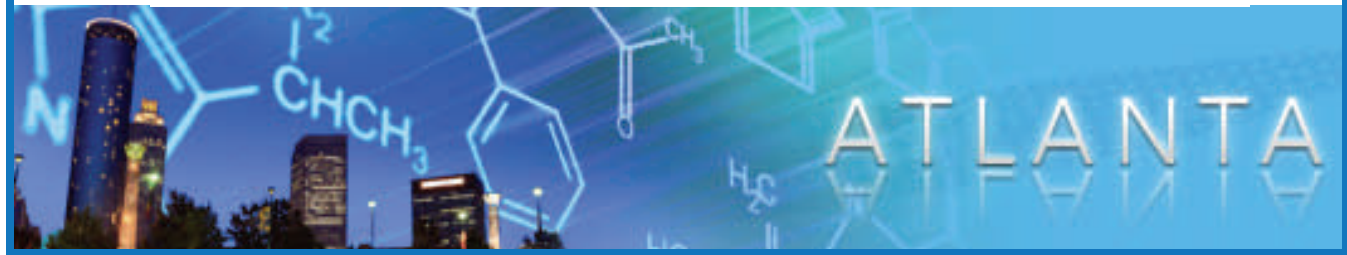
Pathology

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 GEORGIA WORLD CONGRESS CENTER



Beaumont Hospitals
Department of Pathology and Laboratory Medicine



20th
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ON MOLECULAR PATHOLOGY

Clinical Applications of
Genomic Medicine

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2011 Division Executive Committee

Chair: John Greg Howe, Ph.D.
Department of Laboratory Medicine
Yale University of Medicine
333 Cedar Street
New Haven, CT 06520-8035
john.howe@yale.edu

Past Chair: Kiang-Teck Jerry Yeo, Ph.D.
University of Chicago
Department of Pathology (MC 0004)
5841 S. Maryland Avenue
Chicago, IL 60637-1470
jyeo@bsd.uchicago.edu

Chair-Elect: Alex Jaideep Rai, Ph.D.
Memorial Sloan Kettering Cancer Center
Clinical Laboratories
1275 York Avenue, Box 88
New York, NY 10021
raia@mskcc.org

Secretary: Nikolina Babic, Ph.D.
University of Chicago
Department of Pathology
5841 S. Maryland Avenue
Chicago, IL 60637-1470
nbabic@bsd.uchicago.edu

Treasurer: Linnea Baudhuin, Ph.D.
Laboratory Medicine and Pathology
Mayo Clinic
Hilton 402
200 First St SW
Rochester, MN 55905
baudhuin.linnea@mayo.edu

Nominating Committee:

Loralie Langman, Ph.D. Laboratory Medicine and Pathology Mayo Clinic, Hilton 730 200 First Street SW Rochester, MN 55905 langman.loralie@mayo.edu	Neal Ian Lindeman, M.D. Brigham and Women's Hospital Pathology 75 Francis Street Amory 2-217d Boston, MA 02115 nlindeman@partners.org
Gyorgy Abel, M.D., Ph.D. Lahey Clinic Laboratory Medicine 41 Mall Road Burlington, MA 01803-0001 gyorgy.abel@lahey.org	Michael Stocum, M.S. 7300 Dogwood Branch Ct Raleigh, NC 27612 michael.stocum@myrxdx.com

Other Division Contacts

Newsletter Editor: Linnea Baudhuin, Ph.D.
Laboratory Medicine and Pathology
Mayo Clinic, Hilton 402
200 First St SW
Rochester, MN 55905
baudhuin.linnea@mayo.edu

Internet Coordinator: Loralie Langman, Ph.D.
Laboratory Medicine and Pathology
Mayo Clinic, Hilton 730
200 First Street SW
Rochester, MN 55905
Langman.Loralie@mayo.edu

Membership Chair: Stan Kwang, Ph.D.
Clinical Diag Group-Quality Systems
Bio-Rad Laboratories
9500 Jeronimo Road
Irvine, CA 92618
Stan_Kwang@bio-rad.com

Events Coordinator: Nikolina Babic, Ph.D.
University of Chicago
Department of Pathology
5841 S. Maryland Avenue
Chicago, IL 60637-1470
nbabic@bsd.uchicago.edu

Members-at-Large:
Tom Hayhurst
Horizon Performance Group
6501 Butterfield Way
Placerville, CA 95667
thayhurst@comcast.net

Ingo Kampa, Ph.D.
K&K Associates, Inc.
Medical Multispecialty Assoc
139 Patriot Hill Drive
Basking Ridge, NJ 07920
ikampa@valleyhealth.com

Liaison to AMP: Barbara Zehnbaauer, Ph.D.
Office of Surveillance
Epidemiology and Lab Services
Centers for Disease Control and Prevention
12 Executive Park, Mailstop G23
Atlanta, GA 30329
bzehnbaauer@cdc.gov

Liaison to CAP Molecular Oncology Committee: Gregory J. Tsongalis, Ph.D.
Dept of Pathology
Dartmouth-Hitchcock Medical Center
1 Medical Center Drive
Lebanon, NH 03756
gregory.j.tsongalis@hitchcock.org

Liaison to CAP/ACMG Molecular and Biochemical Genetics Resources Committee: Andrea Ferreira-Gonzalez, Ph.D.
Virginia Commonwealth University
403 North 13th St
CSC Building Room 246
Richmond, VA 23298-0246
aferreira-gonzalez@mcvh-vcu.edu