

Clinical Applications of Genomic Medicine

We are pleased to present Beaumont's 25th Annual Symposium on Molecular Pathology on Clinical Applications of Genomic Medicine. This year's symposium will again be held at the Somerset Inn in Troy, Michigan.

Highlights of this year's meeting include our topics on next generation sequencing in cancer, droplet digital PCR and inherited disorders in children, co-sponsored and presented by speakers of the Association for Molecular Pathology (AMP). The keynote address will be on Clinical Applications of the CRISPR/Cas9 Gene Editing System. The remaining sessions include presentations on hot topics, molecular hematology/oncology and molecular microbiology.

The symposium provides significant opportunities for professional education, networking and resource building. You should strongly consider attending if you are involved in molecular diagnostics or are interested in learning about this fast-paced specialty of molecular pathology. We are pleased to bring you these excellent educational opportunities at modest registration fees, thanks to our commercial exhibitors.

In addition, AMP has provided a generous stipend to offset one-day registration costs for 12 visiting technologists, student technologists or medical students. Visit www.beaumontlaboratory.com/dnasymposium to download the form and submit your application. The first 12 qualified applicants will be awarded a scholarship. AMP has also provided a one-year membership to a trainee and a technologist who attend the meeting. These memberships will be randomly selected at the end of the symposium; you need not be present to win.

Lunch is provided with each day's registration fee. In addition, there will be a wine and cheese reception at the close of Wednesday's session. An exhibit area will be open where you can learn about new molecular products to enhance laboratory operations.

Target audience

While all physicians and health care professionals are invited, this year's program is focused on the practices of hematology, oncology, pediatrics, obstetrics and gynecology, infectious diseases, internal medicine and pathology.

Sponsoring institution

This symposium is co-sponsored by the department of Pathology and Laboratory Medicine at Beaumont Hospital, Royal Oak, and the Association for Molecular Pathology.

Objectives

Upon completion of this conference, attendees can expect to achieve the following overall objectives:

- assess advanced methods employed for clinical molecular testing
- employ new technologies being implemented in molecular diagnostics
- discuss pertinent and innovative aspects of molecular technology related to clinical applications
- identify important aspects of molecular medicine including emerging technologies, molecular-based oncology, hematology and microbiology testing
- appraise future considerations and issues based on research activities and clinical needs

Accreditation and credit

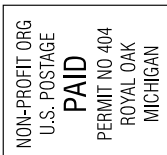
Accreditation: William Beaumont Hospital is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Credit: William Beaumont Hospital designates this live activity for a maximum of 9.0 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CME Credit breakdown: Wednesday 4.5
Thursday 4.5

Disclosure information

All speakers have been asked to disclose any relevant relationships they may have with commercial companies. The presence or absence of relationships (as well as off-label discussion of products) will be disclosed at the time of the meeting.



Beaumont

Clinical Pathology, 105 RI
3601 West 13 Mile Road
Royal Oak, Michigan 48073-6769



**Annual Symposium on
Molecular Pathology
Clinical Applications of
Genomic Medicine**

**Sept. 21-22, 2016
Somerset Inn - Troy, Michigan**

**[www.beaumontlaboratory.com/
dnasymposium](http://www.beaumontlaboratory.com/dnasymposium)**

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**ANNUAL SYMPOSIUM
ON MOLECULAR
PATHOLOGY**

Clinical Applications of Genomic Medicine

Co-sponsored by the
Association for Molecular Pathology

Sept. 21-22, 2016

**Somerset Inn
Troy, Michigan**

*This symposium is jointly provided by the
Department of Pathology and Laboratory Medicine,
Beaumont Hospital, Royal Oak, Michigan and the
Association for Molecular Pathology, Bethesda, Maryland.*

www.beaumontlaboratory.com/dnasymposium

Beaumont



25th Annual Symposium on Molecular Pathology - Clinical Applications of Genomic Medicine



25th Annual Symposium on Molecular Pathology Registration form

Name/degree/credentials _____
 Department _____ Institution _____
 Street address _____
 City _____
 State/Province _____ ZIP _____ Country _____
 Phone _____ Fax _____ Email _____

Fees	Physicians, bioscientists, Ph.D.s, other scientific/research staff	Fellows, residents, technologists, students, other
	The registration fee includes a continental breakfast, box lunch and break refreshments. Wednesday's registration also includes wine and cheese reception.	Check appropriate boxes
Full symposium, 9/21 & 9/22 (Wednesday and Thursday)	<input type="checkbox"/> \$150	<input type="checkbox"/> \$75
Wednesday 9/21/16 only	<input type="checkbox"/> \$80	<input type="checkbox"/> \$40
Thursday 9/22/16 only	<input type="checkbox"/> \$80	<input type="checkbox"/> \$40

Register online
www.beaumontlaboratory.com/dnasymposium

Registrations must be received by Sept. 9, 2016. Payment by credit card or check only accepted. No cash payments will be accepted. After Sept. 9, registrations will only be accepted onsite, at the meeting's registration desk, on a space-available basis. For help with registration, contact Karlene Kilburn at 248-551-6269 or email cme@beaumont.edu.

Refunds, less a \$25 processing fee, will be honored on or before Sept. 10, 2016. After Sept. 10, no refunds will be issued; however substitutions are permitted. To cancel your registration please send an email to cme@beaumont.edu and include "Conference Cancellation" in the subject line.

To register:

- Online credit card payment at www.beaumontlaboratory.com/dnasymposium. Click on Registration; you will be directed to the CME website.
- Mail check payment to: Beaumont Hospital, Royal Oak
 Karlene Kilburn
 CME, 112AB
 3601 West 13 Mile Road
 Royal Oak, MI 48073-6769

Schedule

Presentation handouts will be available for download and print from the website one week prior to the symposium.

Wednesday, Sept. 21

7:30 a.m. Registration and continental breakfast (Foyer)

Association for Molecular Pathology (AMP) Education Series

Program Moderators: **Bobby Boyanton Jr., M.D.**, Medical Director, Microbiology and Associate Medical Director, Molecular Pathology, Beaumont Hospital, Royal Oak and **Gabriel Maine, Ph.D.**, Director, Histocompatibility, Beaumont Hospital, Royal Oak

8-8:15 a.m. **Historical Perspective of the DNA Symposium through 25 Years**
 John Gibson, M.S., SV(ASCP), CLSp(MB)
 Beaumont Hospital, Royal Oak, MI

8:15-9 a.m. **Liquid Biopsy of Cancer: From Research to Bedside**
 Jimmy Lin, M.D., Ph.D.
 Natera, San Carlos, CA

9-9:45 a.m. **Digital Droplet PCR (ddPCR): Research and Clinical Applications**
 Sabine Hellwig, Ph.D.
 ARUP Laboratories, Salt Lake City, UT

9:45-10:15 a.m. Break (Exhibit Hall)

10:15-11 a.m. **Genomic (Next-Generation) Sequencing for Diagnosing Constitutional Genetic Diseases - The Bird's-Eye View**
 Mark Micale, Ph.D., FACMG
 Beaumont Hospital, Royal Oak

11:15 a.m. to noon Corporate workshop*

Noon to 1 p.m. Lunch (Exhibit Hall)

1-1:45 p.m. Corporate workshop*

Hot Topics

Program Moderators: **Mark Micale, Ph.D., FACMG**, Director, Cytogenetics, Beaumont Hospital, Royal Oak and **Gabriel Maine, Ph.D.**, Director, Histocompatibility, Beaumont Hospital, Royal Oak

2-2:45 p.m. **KEYNOTE ADDRESS: Clinical Applications of CRISPR/Cas9 Gene Editing**
 Jacob Corn, Ph.D.
 University of California, Berkeley

2:45-3:30 p.m. **Predictive Markers in the Liquid Biopsy**
 Madhu Kalia, M.D., Ph.D., MBA
 Jefferson Medical College, Philadelphia, PA

3:30-4 p.m. Break (Exhibit Hall)

4-4:45 p.m. **Autism - Neurodevelopmental Disarray**
 Owen M. Rennert, M.D.
 Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) NIH, Bethesda, MD

4:45-6 p.m. Wine and cheese reception

Corporate exhibits open until 6 p.m.

*The corporate workshops are not endorsed by Beaumont Hospital and are not part of the CME activity.

Thursday, Sept. 22

7:30 a.m. Registration and continental breakfast (Exhibit Hall)

Molecular Hematology/Oncology

Program Moderators: **Mitval Amin, M.D.**, Interim Chair, Pathology and Laboratory Medicine; Chief, Anatomic Pathology, Royal Oak and **Domnita Crisan, M.D., Ph.D.**, Director, Molecular Pathology, Beaumont Hospital, Royal Oak

8-8:45 a.m. **Integrating Clinical NGS Findings in Patient Care Decisions: The Next Frontier in Personalized Cancer Care**
 Keyur Patel, M.D., Ph.D.
 MD Anderson Cancer Center, Houston, TX

8:45-9:30 p.m. **Molecular Profiling of Myeloid Neoplasms**
 Mohammad Vasef, M.D.
 University of New Mexico, Albuquerque

9:30-10 a.m. Break (Exhibit Hall)

10-10:45 a.m. **Case Studies**
 Mohammad Vasef, M.D.
 University of New Mexico, Albuquerque

10:45-11 a.m. Break

11-11:45 a.m. Corporate workshop*

Noon - 1 p.m. Lunch (Exhibit Hall)

1-1:45 p.m. Corporate workshop*

Molecular Microbiology

Program Moderators: **Bobby Boyanton Jr., M.D.**, Medical Director and **Barbara Robinson-Dunn, Ph.D.**, Technical Director, Microbiology, Beaumont Hospital, Royal Oak

2-2:45 p.m. **The Challenges of Laboratory Testing for Zika Virus Infection**
 Janice Matthews-Greer, Ph.D., D(ABMM)
 Michigan Department of Health and Human Services, Lansing

2:45-3:15 p.m. Break (Exhibit Hall)

3:15-4 p.m. **The Changing Paradigm of the Laboratory Diagnosis of Gastroenteritis**
 Melissa B. Miller, Ph.D., D(ABMM)
 University of North Carolina School of Medicine, Chapel Hill, NC

4-4:45 p.m. **The Diagnosis of C. difficile Infections: Does Molecular Make It More or Less "difficile"?**
 Stephen M. Brecher, Ph.D.
 VA Boston Healthcare System, Roxbury, MA

4:45 p.m. Closing remarks

Faculty

Stephen M. Brecher, Ph.D.

VA Boston Healthcare System, Roxbury, MA

Jacob Corn, Ph.D.

University of California, Berkeley, CA

John Gibson, M.S., SV(ASCP), CLSp(MB), CLAS-MDx,
 Beaumont Hospital, Royal Oak, MI

Sabine Hellwig, Ph.D.

ARUP Laboratories, Salt Lake City, UT

Madhu Kalia, M.D., Ph.D., MBA

Jefferson Medical College, Philadelphia, PA

Jimmy Lin, M.D., Ph.D.

Natera, San Carlos, CA

Janice Matthews-Greer, Ph.D., D(ABMM)

Michigan Department of Health and Human Services, Lansing, MI

Mark Micale, Ph.D., FACMG

Beaumont Hospital, Royal Oak, MI

Melissa Miller, Ph.D., D(ABMM)

University of North Carolina School of Medicine, Chapel Hill, NC

Keyur Patel, M.D., Ph.D.

MD Anderson Cancer Center, Houston, TX

Owen M. Rennert, M.D.

Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) NIH, Bethesda, MD

Mohammad Vasef, M.D.

University of New Mexico/TriCore Reference Lab, Albuquerque

Planning committee

Department of Clinical Pathology

Beaumont Hospital, Royal Oak, Michigan

Oakland University William Beaumont (OUWB)

School of Medicine

Course Directors/OUWB School of Medicine Faculty

Domnita Crisan, M.D., Ph.D., HCLD, Professor

Mitval Amin, M.D., Interim Chair, Professor

Mark Kolins, M.D., FACPE, Emeritus, Professor

Committee Members/OUWB School of Medicine Faculty

Anne Marie Blenc, M.D., Associate Professor

Bobby L. Boyanton, Jr., M.D., FASCP, FCAP,
 Associate Professor

Vonda Douglas-Nikitin, M.D., Associate Professor

James Huang, M.D., FCAP, Associate Professor

Gabriel Maine, Ph.D., Associate Professor

Mark Micale, Ph.D., FACMG, Associate Professor

Peter A. Millward, M.D., Associate Professor

Barbara Robinson-Dunn, Ph.D., D(ABMM), Professor

John Schwartz, M.D., Assistant Professor

Marc Smith, M.D., Associate Professor

John Gibson, M.S., SV(ASCP), CLSp(MB)

R. Todd Haight, M.A., Director, Lab Sales and Marketing

Marcy King, B.S., Coordinator

Nancy Ramirez, M.S., MLS(ASCP)^{SH}, Education Manager

Association for Molecular Pathology (AMP)

Bethesda, Maryland

Melvin Limson, Ph.D.

Mary Steele Williams, M.N.A., MT(ASCP)SM, C.A.E.

Symposium location and hotel accommodations

Somerset Inn

2601 West Big Beaver Road

Troy, Michigan 48084

Toll free:800-228-8769

Phone:248-643-7800

Fax:248-643-2296

Website:www.somersetinn.com

On-site registration will be held in the Somerset Ballroom foyer (located inside the north entrance). Registration hours are:
 Wednesday7 a.m. to 5 p.m.
 Thursday7 a.m. to 1 p.m.

Free parking is available at the Somerset Inn.

Rooms are being held for symposium participants until Sept. 1.

	Tower	Executive Wing
Singles	\$109*	\$129*
Doubles	\$109*	\$129*

*Add 13.3% tax

Please state "**Beaumont Molecular Pathology Symposium**" when making reservations. If the hotel website indicates rooms are no longer available, please call the hotel directly to book a room prior to contacting a third party.

Ground transportation

- Sedan service from/to the airport and to/from Somerset Inn is available through:
 - Trinity Shuttle Service:
 888-789-6187
 One way: \$130 for minivan,
 \$155 for larger van
 Round trip: \$250 minivan;
 \$300 larger van
 - Metro Car:
 800-456-1701 (\$95 one way)
 - Metro Connection:
 866-715-8662 (\$85 one way)

Prices were quoted at the time of publication and are subject to change at any time.