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CBA

# Translational Genomics, Biopharmaceuticals and Personalized Medicine

**Eighth Annual Symposium**
**on**
**Translational Research in Molecular Pathology**
**&**
**2012 CBA Annual Conference in Maryland**

Date: Tuesday, October 2, 2012
Location: MSTF Auditorium
University of Maryland, Baltimore
9:00am-4:00pm
685 W. Baltimore Street
Baltimore, MD 21201

## Organizational Committee

**Richard Y. Zhao, PhD**, Chair
Professor and Head
Division of Molecular Pathology
Director, Translational Genomics Laboratory
Director, Molecular Diagnostics Laboratory
University of Maryland School of Medicine (UMSOM)
President, Chinese Biopharmaceutical Association (CBA-USA)

**Alan R. Shuldiner, MD**, Co-Chair
John A. Whitehurst Professor of Medicine
Associate Dean and Director of the Program in Personalized and Genomic Medicine, UMSOM

**Nicholas Ambulos, PhD**
Associate Professor and Director,
Biopolymer Core, UMSOM

**Curt I. Civin, MD**
Professor, Associate Dean for Research
Director, Center for Stem Cell Biology & Regenerative Medicine, UMSOM

**Kevin J. Cullen, MD**
Professor and Director,
Marlene and Stewart Greenebaum Cancer Center, UMSOM

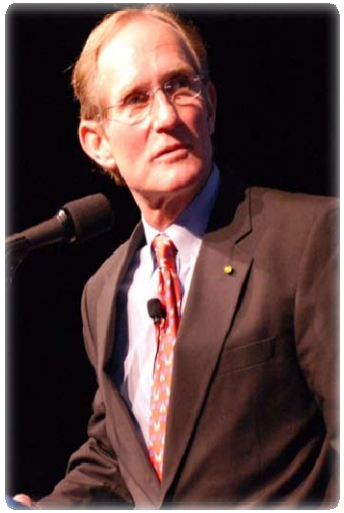
**Claire Fraser, PhD**
Professor and Director,
Institute of Genome Sciences, UMSOM

**James L. Hughes, MBA**
Chief Enterprise and Economic Development Officer and Vice President
University of Maryland Baltimore

**Robert C. Gallo, MD**
Professor and Director and Founder,
Institute of Human Virology, UMSOM

**Dean L. Mann, MD**
Professor, Department of Pathology

**Sanford A. Stass, MD**
Professor and Chair,
Department of Pathology,
Department of Medical Research and Technology,
UMSOM



# Keynote Lecture

# Aquaporin Water Channels: from Atomic Structure to Malaria


## Peter Agre, MD

University Professor and Director
Johns Hopkins Malaria Research Institute
Department of Molecular Microbiology and Immunology
Recipient of 2003 Nobel Prize in Chemistry


Dr. Peter Agre graduated from Augsburg College and Johns Hopkins School of Medicine. He shared the 2003 Nobel Prize in Chemistry for discovering the aquaporins, a family of water channel proteins found throughout nature and underlying numerous physiological processes and clinical disorders. Agre is also deeply involved in multiple global issues. He currently directs the Johns Hopkins Malaria Research Institute, leading field research in Zambia and Zimbabwe. As Chair of the Committee on Human Rights of the National Academies, Agre led efforts on behalf of imprisoned scientists, engineers, and health professionals worldwide. Past President of the American Association for the Advancement of Sciences, Agre leads scientific diplomatic visits and meetings with leaders of countries including Cuba, DPRK (North Korea), Myanmar (Burma), and Iran.

9:00 – 9:05am: Welcome

**Richard Y. Zhao, PhD**
Chair, Symposium Organizing Committee
Professor and Head
Division of Molecular Pathology
Departments of Pathology, Microbiology-Immunology
Institute of Human Virology
University of Maryland School of Medicine

9:05 – 9:15am: Opening Remarks

**E. Albert Reece, MD, PhD, MBA**
Vice President for Medical Affairs, University of Maryland
John Z. and Akiko K. Bowers Distinguished Professor and
Dean, University of Maryland School of Medicine
*Introduction by Richard Y. Zhao, PhD.*

9:15 – 10:00am: **Keynote Lecture**
***Aquaporin Water Channels: from Atomic Structure to Malaria***

**Peter Agre, MD**
University Professor and Director
Johns Hopkins Malaria Research Institute
Department of Molecular Microbiology and Immunology
Recipient of 2003 Nobel Prize in Chemistry
*Introduction by Curt Civin, MD*

10:00 – 10:15am: **Coffee Break**

10:15am – Noon: **Morning Session**

10:15 – 10:50am: ***Co-Development of a Companion Diagnostic for Targeted Cancer Therapy: The BRAF***

**Suzanne Cheng, PhD**
Director in Genomics & Oncology Research
Roche Molecular Systems
*Introduced by Qing Chen, MD*

10:50 – 11:25am: ***Bringing Genomics to the Oncology Clinic: Opportunities and Challenges***

**Paul S. Meltzer, MD, PhD**
Head, Molecular Genetics Section and Branch Chief
National Cancer Institute
*Introduced by Neil Constantine, PhD*

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## Chinese Biopharmaceutical Association, USA (CBA-USA)

*CBA – The Bridge of US-China Biopharmaceuticals*

The Chinese Biopharmaceutical Association – USA (CBA) is one of the largest Chinese American professional associations in the US (www.cba-usa.org). Founded in 1995, CBA is an independent, non-political, not-for-profit professional organization led by its elected board of directors, board of advisors and executive committees.

CBA's primary mission is to bridge biopharmaceutics between US and China. Headquartered in Maryland, CBA currently has more than 700 active, over 3000 registered individual members, and more than 60 institutional members. Most of the CBA members are from the local biopharmaceutical companies, universities, research institutions, and government agencies. More than 80 percent of the CBA members have doctoral degrees. In addition to members from the US, CBA also has members residing in China, Europe, Canada, Australia, Singapore, and Japan.

Since its inception, CBA has been playing a dynamic role in the Chinese and US biopharmaceutical industries. Each year, CBA organizes or co-organizes a number of specially designed workshops, seminars, meetings, and networking gatherings to meet its members' career advancement needs. The signature event of CBA is its annual black-tie optional gala where business and academic leaders, entrepreneurs and venture capitalists as well as US and Chinese government officials gather together to discuss opportunities and trend of US-China collaborations on biopharmaceuticals. The most influential event of CBA is its annual conference that attracts hundreds to thousands of attendees each year. Many internationally renowned scientists, business leaders, and high-ranking US and Chinese government officials have attended and spoken at CBA's annual conferences. Some of those distinguished speakers included, but not limited to, Nobel laureates Drs. K Barry Sharpless (2001), Avram Hershko (2004), Luc Montagnier (2008) and Peter Agre (2012); Mr. James C. Greenwood, President and CEO of Biotechnology Industry Organization (BIO); Dr. Zhu Chen, China's Minister of Health; and many members of US and Chinese science academies including Drs. Paul Schimmel, Robert C. Gallo, Bernard Roizman and E. Albert Reece.

During the past decade, the Chinese biopharmaceutical industry has grown dramatically, and a variety of advantages have attracted many global pharmaceutical companies to China. To promote collaborations between the Chinese and American biopharmaceutical industries, and to further strengthen CBA's influence in the global biopharmaceutical industry, CBA has strategically stepped up its activities in connecting both industries. Besides hosting professional conferences in the US, CBA has also expanded its activities to China by successfully hosting its 13th, 14th and 17th annual conferences in Shanghai, Guangzhou and Qingdao, respectively. Because of CBA's constant pursue of its mission and persistent devotion to bridging the US and China biopharmaceutical industries, CBA has gained great reputation in US, China as well as other parts of the world. This is certainly evident by reporting or coverage of CBA's events and its members by a number of prestigious scientific or business magazines or news media such as Nature, Science, Thomson Reuters, PR Newswire, BioPortfolio or Bioprocess International. For instance, in the State of Maryland, CBA has assisted Governor Martin O'Malley in arranging his trade mission to China in 2011.

CBA has also developed strong ties with the Maryland Department of Businesses and Economic Development (DBED) and the Montgomery County Department of Economic Development (MCDED). CBA is looking forward to collaborating with other Maryland's biopharmaceutical enterprises and high education institutions such as the host of this conference, the University of Maryland, the Founding Campus.

11:25am – noon: ***Your Medicine and Genes***

**Mridula Iyer Ph.D**
Director, Head of Prevention Business
Qiagen
*Introduced by Jennifer Johnson, PhD*

**Noon – 1:00pm:** **Box Lunch – MSTF Atrium**

1:00 - 4:00pm: **Afternoon Session**

1:00 - 1:05pm: Welcome to the afternoon session

**Richard Y. Zhao, PhD**
Chair, Symposium Organizing Committee
Professor and Head
Division of Molecular Pathology
Departments of Pathology, Microbiology-Immunology
Institute of Human Virology
University of Maryland School of Medicine

1:05 – 1:45pm: ***Transitioning NGS Companion Diagnostics to the Clinical Laboratory***

**A. James Uzgiris, PhD**
Director, R&D
Siemens Healthcare Diagnostics
*Introduced by Dean Mann, MD*

1:45 – 2:25pm: ***Personal Genomes***

**Euan Ashley MRCP DPhil**
Assistant Professor and Director
The Stanford Center for Inherited Cardiovascular Disease
Division of Cardiovascular Medicine
Stanford University
*Introduced by Patrick McArdle, PhD*

2:25 – 2:40pm: **Coffee Break**

2:40 – 3:20pm: ***Integrating Translational Sciences into Drug Development***

**Laura K. Richman, DVM, PhD, DACVP**
Vice President, R&D
Head, Translational Sciences
MedImmune
*Introduced by A. K. M. Shamsuddin MBBS, PhD*

3:20 – 4:00pm: ***BioHealth Innovation in Maryland***

**Richard Bendis**
President and CEO
*BioHealth Innovation Inc.*
*Introduced by Jim Hughes, MBA*

**4:00 – 5:00pm:** **Cocktail Reception at the MSTF Atrium**



## Co-organized by

Division of Molecular Pathology
Department of Pathology
University of Maryland School of Medicine

The Chinese Biopharmaceutical Association (CBA-USA)

## Co-sponsorship

Program in Personalized and Genomic Medicine
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