THE 17TH INTERNATIONAL WINTER EICOSANOID CONFERENCE

March 11-13, 2018

Baltimore Marriott Inner Harbor at Camden Yards

110 S. Eutaw Street
Baltimore, MD 21201

Arachidonic Acid

20-HETE

11,12 EET
## ORGANIZING COMMITTEE

<table>
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<tr>
<th>Name</th>
<th>Institution</th>
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<tr>
<td>William B. Campbell, Ph.D.</td>
<td>Medical College of Wisconsin</td>
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<td>Kenneth V. Honn, Ph.D.</td>
<td>Wayne State University School of Medicine</td>
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<td>Darryl C. Zeldin, M.D.</td>
<td>NIEHS/NIH</td>
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## CONFERENCE STAFF

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<tr>
<th>Name</th>
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<tr>
<td>Gail D. Anderson</td>
<td>Conference Coordinator</td>
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<tr>
<td>Anthony Anderson</td>
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<td>Katorya Belin</td>
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<td>Rhonda Belville</td>
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<td>Valerie Hurt</td>
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<td>Donna James</td>
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Audiovisual – NIH Events Management

## SCIENTIFIC ADVISORS

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<tr>
<th>Name</th>
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<tr>
<td>Alan R. Brash, Ph.D.</td>
<td>Vanderbilt University</td>
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<td>Jorge H. Capdevila, Ph.D.</td>
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<td>Charles T. Stier, Ph.D.</td>
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## SYMPOSIUM ORGANIZERS

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<tr>
<td>Nader G. Abraham, Ph.D.</td>
<td>New York Medical College</td>
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<td>Nabil Alkayed, MD, Ph.D.</td>
<td>Knight Cardiovascular Inst/Oregon Health &amp; Science</td>
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Poster Awards will be presented for Outstanding Poster Presentations

Cancer
Cardiovascular
Diabetes
Inflammation
Mechanism-Structure-Genetics
Renal
SPONSORS

We gratefully acknowledge the following Institutions for their support of the 17th International Winter Eicosanoid Conference.

Beijing Tide Pharmaceutical Co., Ltd

Cayman Chemical

Detroit R&D

Elsevier
*Prostaglandins and Other Lipid Mediators*

Inception Sciences

NIEHS/NIH

OMEICOS
NIEHS

2018 Travel Award Recipients

To be named
2018 Young Investigator Award Recipients

To be named
4 recipients

John C. McGiff, Memorial Lecture Award

William B. Campbell, PhD
Medical College of Wisconsin
The 17th International Winter Eicosanoid Conference  
March 11-13, 2018  
Marriott Inner Harbor Hotel at Camden Yards

**ORAL PRESENTATIONS**  
SUNDAY - TUESDAY: BALLROOM WEST DEF (1st Floor)

Registration:  
Sunday, March 11th  2:00 pm - 9:00 pm  Ballroom Foyer
Mon & Tues, March 12th-13th  7:15 am - 6:00 pm  Ballroom Foyer

Exhibitors:  
Sunday–Tuesday, March 11th-13th  All Day  Ballroom Foyer

Welcome Reception  
Sunday, March 11th  7:00 pm – 9:00 pm  Ballroom Foyer

Continental Breakfast:  
Monday & Tuesday  7:15 am – 8:30 am  Ballroom Foyer

**POSTER SESSIONS/MEET the EXHIBITORS**  
*University Ballroom/ABC East Ballroom*

Poster Session I  
Monday, March 12, 2018  
6:20-7:50 pm

Poster Session II  
Tuesday, March 13, 2018  
4:30-6:00 pm

**TRAINEE ROUNDTABLES**  
Ravens Room (near The Yard Restaurant)

Monday, March 12th  
7:15-8:15 am

Tuesday, March 13th  
7:15-8:15 am

**CONFERENCE DINNER AND AWARDS**  
Tuesday, March 13th  
8:00 pm  
To Be Named
Location:  Ballroom West DEF

4:00 pm  Opening Remarks
Darryl C. Zeldin, MD, NIH/NIEHS, Research Triangle Park, NC

SESSION I:  POLYM YOUNG INVESTIGATORS SESSION
(SPONSORED BY ELSEVIER/PROSTAGLANDINS AND OTHER LIPID MEDIATORS)
Co-Chairs:  Arthur A. Spector, MD, NIAAA/NIH, Bethesda, NY
Austin M. Guo, PhD, New York Medical College, Valhalla, NY

4:05 pm  Arthur Spector
Introduction of Young Investigator Session

4:10 pm  (POLYM YI Awardee)
Title TBD

4:25 pm  (POLYM YI Awardee)
Title TBD

4:40 pm  (POLYM YI Awardee)
Title TBD

4:55 pm  (POLYM YI Awardee)
Title TBD

5:10 pm  Coffee Break (10 min)

SESSION II:  OBESITY/DIABETES
Co-Chairs:  Nader G. Abraham, PhD, New York Medical College
Victor Schuster, MD, Albert Einstein College of Medicine, Bronx, NY

5:20 pm  Victor Schuster, MD, Albert Einstein College of Medicine, Bronx, NY
To Burn, or Not To Burn – Fat is the Question

5:45 pm  Liu Lu, MS, Chinese PLA General Hospital, Beijing, China/NYMC
EET-derived PGC-1-HO-1-Wnt-1 in Pericardial Fat Ameliorate LV Function on Obesity

6:00 pm  J. Matthew Luther, MD, Vanderbilt University School of Medicine, Nashville, TN
Epoxyeicosatrienoic acids and Insulin Sensitivity

6:25 pm  Mong-Heng Wang, PhD, Augusta University, Augusta, GA
A Novel Interaction between AT1 Receptor and Soluble Epoxide Hydrolase in Diabetic Retinopathy (In collaboration with Mohamed Al-Shabrawey MD/PhD, Dental and Medical Colleges of Georgia)

6:50 pm  End of Sessions

7:00-9:00 pm  Welcome Reception/Meet the Exhibitors
West Ballroom Foyer

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MONDAY, MARCH 12, 2018

7:15-8:15 am  **Trainee Roundtable: Ravens Room (near The Yard Restaurant)**
Government-NIH/Industry/Senior Investigator (Academia)

**ORAL PRESENTATIONS**
**Location: Ballroom West DEF**

**SESSION III: EICOSANOIDs AND IMMUNE FUNCTION**
Co-Chairs: Ingrid Fleming, PhD, Vascular Research Center, Frankfurt, Germany
           David Bishop–Bailey, BSc/PhD, Royal Veterinary College, London, UK

8:30 am  David Bishop–Bailey, BSc/PhD, Royal Veterinary College, London, UK
         *A Role for Oxygenase Products in Inflammatory Resolution?*

8:55 am  Ana Carolina Borges de Araujo, PhD, Karolinska Institutet, Stockholm, Sweden
         *Targeting Leukotrienes in Atherosclerosis and Abdominal Aortic Aneurysm*

9:20 am  Sachin A. Gupte, MD/PhD, New York Medical College, Valhalla, NY
         *Cyp2c44: Stem Cells and Vascular Inflammation/Pathology*

9:45 am  Timo Frömel, PhD, Goethe University, Frankfurt, Germany
         *The Role of Cyp2c44 on Macrophage Polarization and Tumor Growth*

10:10 am  **Coffee Break (20 min)**

**Session IV: EICOSANOIDs AND CANCER**
Co-chairs: Dipak Panigrahy, MD, Beth Israel Deaconess Medical Center, Boston, MA
           Kenneth V. Honn, PhD, Wayne State University, Detroit, MI

10:30 am  Kenneth V. Honn, PhD, Wayne State University, Detroit, MI
           *A Novel Function For 12-Lipoxygenase In C-Met and Integrin β4 Axis Crosstalk*

10:55 am  David A. Potter, MD/PhD, University of Minnesota, Minneapolis, MN
           *Cytochrome P450 Regulation of the mTOR Pathway*

11:20 am  Imad Shureiqi, MD, University of Texas MD Anderson Cancer Center, Houston, TX
           *ALOX15 and Excessive Dietary Linoleic Acid Intake in Colon Cancer: A Substrate without an Enzyme*

11:45 am  Guodong Zhang, PhD, University of Massachusetts, Amherst, MA
           *Lipidomic Profiling Identifies P450/sEH Pathway as a Novel Therapeutic Target for Colon Cancer*

12:10 pm  Aditi Das, PhD, University of Illinois Urbana-Champaign, Urbana IL
           *Elucidating the Role of Omega-3 Endocannabinoid Epoxide in Inflammation and Osteosarcoma*

12:25 pm  Ann C. Skulas-Ray, PhD, University of Arizona, Tucson, AZ
           *Omega-3 Fatty Acids and Inflammation: Where Does DPA Fit In?*

12:40 pm  **Lunch Break (1 hr, 30 min)**
SESSION V: EICOSANOID-INSPIRED DRUGS IN CLINICAL TRIALS
Co-Chairs: Camille Falck, PhD, CMXTwenty, Inc., Milwaukee, WI
Wolf-Hagen Schunck, PhD, Max Delbrück Center for Molecular Medicine

2:10 pm Ewgenij (Eugen) Proschak, PhD, Goethe University, Frankfurt, Germany
Opportunities and Challenges for Fatty Acid Mimetics in Drug Discovery

2:35 pm Derek W. Clissold, PhD, LipidEv Ltd., Reading, UK
From LT Antagonists to SPM Agonists

3:00 pm Robert Fischer, MD, OMEICOS Therapeutics, GmbH, Berlin, Germany
Development of a Synthetic 17,18-EEQ Analog for the Treatment of Cardiac Arrhythmia and Inflammatory Diseases

3:25 pm Bruce D. Hammock, PhD, University of California – Davis, Davis, CA
Working with NIH-NINDS Blueprint Development Program towards Clinical Trials for EicOsis Soluble Epoxide Hydrolase Inhibitors. Treating Pain in Dogs, Cats, Horses, and Even People

3:50 pm Camille Falck, PhD/DIC, CMXTwenty, Inc., Milwaukee, WI
CMX020, an Eicosanoid Analog for the Management of Acute and Chronic Pain

4:15 pm Coffee Break (20 min)

SESSION VI: LEVUGLANDINS
Co-Chairs: Sean Davies, PhD, Vanderbilt University School of Medicine, Nashville, TN
Annet Kirabo, DVM/PhD, Vanderbilt University School of Medicine, Nashville, TN

4:35 pm Sean S. Davies, PhD, Vanderbilt University School of Medicine, Nashville, TN
Isolevuglandins and Cardiovascular Disease

5:00 pm Arion J. Kennedy, PhD, Vanderbilt University School of Medicine, Nashville, TN
High Fat Diet Leads to IsoLG Accumulation in Adipose Tissue Macrophages

5:25 pm Annet Kirabo, DVM/PhD, Vanderbilt University School of Medicine, Nashville, TN
Isolevuglandins, Inflammation and Hypertension

5:50 pm Ginger Milne, PhD, Vanderbilt University School of Medicine, Nashville, TN
Title TBD

6:15 pm End of Monday Sessions

6:20-7:50 pm Poster Session I
University Ballroom/ABC East Ballroom
Meet Exhibitors

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TUESDAY, MARCH 13, 2018

7:15-8:15 am  Trainee Roundtable:  Ravens Room (near The Yard Restaurant)
Government/Overseas/Junior Investigator

ORAL PRESENTATIONS
Location:  Ballroom West DEF

SESSION VII:  EICOSANOIDs AND GENETICS
Co-Chairs: Pietro Minuz, PhD
Craig Lee, PharmD, PhD

8:30 am  Tilo Grosser, MD, University of Pennsylvania, Philadelphia, PA
Variability in the Response to Cyclooxygenase Inhibitors
8:55 am  Cristiano Fava, MD/PhD, University of Verona, Verona, Italy
Eicosanoids and Cardiovascular Risk Factors: Hints from Genetic and Nutrition Studies
9:20 am  Craig R. Lee
Genetic Variation in CYP Epoxigenase Pathway, Endothelial Function, and Cardiovascular Disease Risk
9:45 am  Paola Patrignani, PhD, “G. d’Annunzio” University, Chieti, Italy
Role of Platelets in Inflammatory Intestinal Disease: a Lesson from Conditional Mice with Specific Deletion of COX-1 in Megakayocytes/Platelets
10:10 am  Emanuela Ricciotti, PhD, University of Pennsylvania, Philadelphia, PA
Cyclooxygenase-2, Asymmetric Dimethylarginine and the Cardiovascular Hazard from NSAIDS

10:25 am  Coffee Break (20 min)

SESSION VIII:  EICOSANOIDs AND THE BRAIN
Co-Chairs:  Nabil Alkayed, MD, PhD, Knight Cardiovascular Institute, Oregon Health & Science, Portland OR
Raymond Koehler, MD, Johns Hopkins University School of Medicine, Baltimore, MD

10:45 am  Justin Cetas, MD, Neurosurgery, Oregon Health & Science University, Portland, OR
Subarachnoid Hemorrhage and P450 Eicosanoids
11:10 am  Xi (Nancy) Lan, PhD, Johns Hopkins University School of Medicine, Baltimore, MD
sEH Deletion Protects Hemorrhagic Brain by Promoting M2 Phenotype Microglia/Macrophages
11:35 am  Susan S. Cohen, MD, Pediatrics, Medical College of Wisconsin, Milwaukee, WI
Eicosanoids and the Developing Brain
12:00 pm  Nabil Alkayed, MD/PhD, Knight Cardiovascular Institute, Oregon Health & Science, Portland OR
Novel Brain Mechanisms of P450 Eicosanoids
12:25 pm  Lunch Break (1 hr, 30 min)

SESSION IX: INFLAMMATION AND THE KIDNEY
Co-Chairs: John Imig, PhD
To be named

1:55 pm  Luděk Červenka, MD/PhD, Institute for Clinical and Experimental Medicine, Prague, Czech Republic
  Combined Inhibition of Soluble Epoxide Hydrolase and Renin-angiotensin System Exhibits Superior Renoprotection in 5/6 Nephrectomized Rats

2:20 pm  Megan M. Shuey, MS, Vanderbilt University Medical Center, Nashville, TN
  EPHX2 Polymorphism and Acute Kidney Injury

2:45 pm  Pin Lan Li, MD/PhD, Virginia Commonwealth University, Richmond, VA
  Lipoxygenase Metabolites of Docosahexaenoic Acid Suppress NLRP3 Inflammasome to Decrease Glomerular Injury

3:10 pm  Christopher S. Wilcox, MD/PhD, Georgetown University Medical Center, Washington, DC
  Differential Microvascular Regulation by PGD2 in Brain and Kidney

3:35 pm  Coffee Break (20 min)

JOHN C. McGIFF MEMORIAL LECTURE

3:55 pm  Bruce D. Hammock, PhD, University of California-Davis
  Introduction of Awardee & Presentation

4:00 pm  William B. Campbell, PhD, Medical College of Wisconsin
  Regulation of Vascular Tone by Metabolites of Arachidonic Acid

4:25 pm  End of Tuesday Sessions

4:30-6:00 pm  Poster Session II
  University Ballroom/ABC East Ballroom
  Meet Exhibitors

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8:00 pm  Conference Dinner and Awards Presentations

End of Conference
POSTER ABSTRACTS

Posters will be displayed in the University Ballroom/ABC East Ballroom on first floor of the Marriott Inner Harbor Hotel, Sunday, March 11th through Tuesday evening, March 13th. Presenters are required to be by their posters for discussion during the session to which they are assigned. **ALL posters MUST be removed on Tuesday evening at the end of the poster session as the boards will be dismantled. The room is not available after this time.**