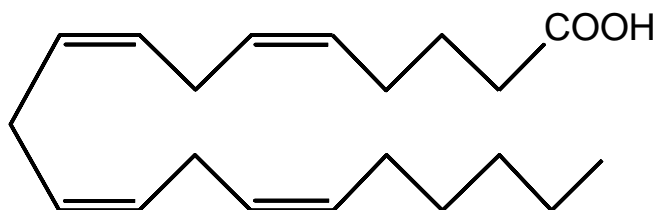


**THE 17TH INTERNATIONAL
WINTER EICOSANOID CONFERENCE**

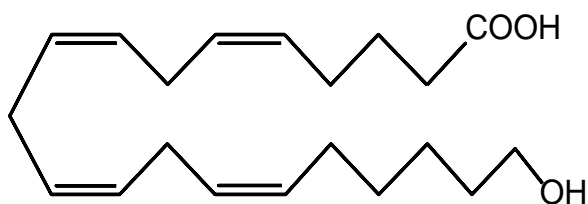
March 11-13, 2018

Baltimore Marriott Inner Harbor at Camden Yards

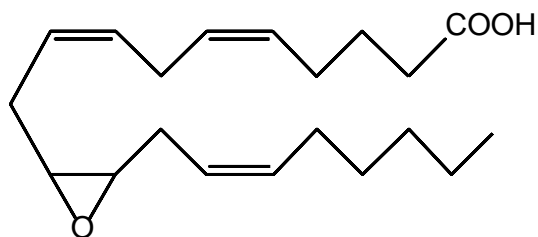
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Arachidonic Acid



20-HETE



11,12 EET

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Poster Sessions Judges

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New York Medical College

Austin Guo, PhD
New York Medical College

Emanuela Ricciotti, PhD
University of Pennsylvania

Chen Chen, MD/PhD
Huazhong University

Sachin Gupte, MD/PhD
New York Medical College

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University of Massachusetts-Amherst

Jan Neckar, PhD
Czech Academy of Sciences

Poster Awards will be presented for Outstanding Poster Presentations

Cancer

Cardiovascular

Diabetes

Inflammation

Mechanism-Structure-Genetics

Renal

TRAINEE SESSIONS

Lars Bellner, Ph.D. Chair
New York Medical College

GOVERNMENT/NIH

SENIOR INVESTIGATOR

INDUSTRY

JUNIOR INVESTIGATOR

OVERSEAS INVESTIGATOR

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Prostaglandins and Other Lipid Mediators

Inception Sciences

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**Pharmacology Department
New York Medical College**

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OMEICOS

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Yohannes Abere
National University of Singapore

Ahmed Ibrahim
Augusta University

Kevin Agostinucci
New York Medical College

Lockhart Jamieson
University of Alberta

Sara Bonafini
University of Verona

Gregory Joseph
New York Medical College

Ahmed Elmarakby
Augusta University

Mifijam Karger
Charité University

Fan Fan
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Amanda Soler
New York Medical College

Juan Gimenez-Bastida
Vanderbilt University

Samantha Tang
New York Medical College

Jiong Hu
Goethe University

Chi Zhou
Huazhong University

Honorable Mention

Zhijun Guo
University of Minnesota

Lingjue Li
University of Pittsburgh

Lu Liu
New York Medical College

Elsevier
Prostaglandins and Other Lipid Mediators
(POLM)

2018 Young Investigator Award Recipients

Katherine Theken
University of Pennsylvania

Liang Xiao
Vanderbilt University

Ting Yang
Duke University

Zeng-Jin Yang
Johns Hopkins University

John C. McGiff, Memorial Lecture Award
Tuesday, March 13th

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 11 th Mon & Tues, March 12 th -13 th	2:00 pm - 9:00 pm 7:15 am - 6:00 pm	Ballroom Foyer Ballroom Foyer
Exhibitors:	Sunday–Tuesday, March 11 th -13 th	All Day	Ballroom Foyer
Welcome Reception	Sunday, March 11 th	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
6:00-7:30 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**

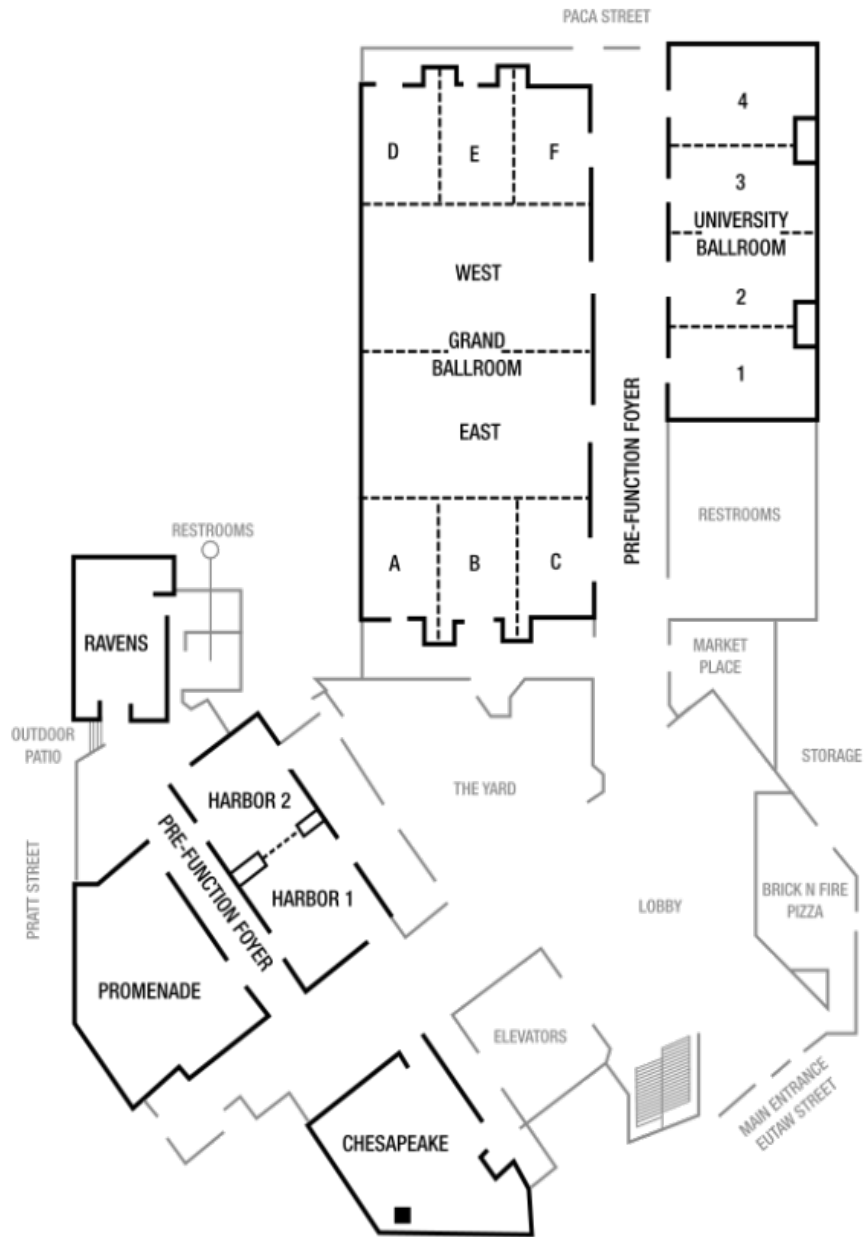
**Tuesday, March 13th
7:15-8:15 am**



CONFERENCE DINNER AND AWARDS

**Tuesday, March 13th
8:00 pm
To Be Named**

FIRST FLOOR



SUNDAY, MARCH 11, 2018

Location: Ballroom West DEF

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

SESSION I: POLM YOUNG INVESTIGATORS SESSION

(SPONSORED BY ELSEVIER/PROSTAGLANDINS AND OTHER LIPID MEDIATORS)

Co-Chairs: Arthur A. Spector, MD, NIAAA/NIH, Bethesda, MD
Michal L. Schwartzman, PhD, New York Medical College, Valhalla, NY

4:05 pm Arthur Spector
Introduction of Young Investigator Session

4:10 pm Katherine Theken, PhD, University of Pennsylvania, Philadelphia, PA
Variability in the Analgesic Response to Ibuprofen following Third-Molar Extraction

4:25 pm Liang Xiao, PhD, Vanderbilt University, Nashville, TN
Effects of Prostaglandin E2 and its EP1/EP3 Receptors on Dendritic Cell Activation in Mice with L-Name/High Salt-Induced Hypertension

4:40 pm Ting Yang, PhD, Duke University and Durham VA Medical Centers, Durham, NC
The Role of Prostaglandin E2 Receptor 4 in Blood Pressure Control

4:55 pm Zeng-Jin Yang, PhD, Johns Hopkins University, Baltimore, MD
Contribution of TRPV1 Channels to 20-HETE-Aggravated Ischemic Neuronal Injury

5:10 pm **Coffee Break (10 min)**

SESSION II: OBESITY/DIABETES

Co-Chairs: Nader G. Abraham, PhD, Dr.H.C., FAHA, New York Medical College
David Sacerdoti, MD, University of Padova, Padova, Italy

5:20 pm David Sacerdoti, MD, University of Padova, Padova, Italy
OVERVIEW

5:30 pm Victor Schuster, MD, Albert Einstein College of Medicine, Bronx, NY
To Burn, or Not To Burn – Fat is the Question

5:55 pm Liu Lu, MS, Chinese PLA General Hospital, Beijing, China/NYMC
Ablation of Soluble Epoxide Hydrolase Expression Increases Beige Fat over White Fat through an Increase in Mitochondrial Integrity, HO-1 and PGC1 α -Adiponectin In Vitro and In Vivo

6:10 pm J. Matthew Luther, MD, Vanderbilt University School of Medicine, Nashville, TN
Epoxyeicosatrienoic acids and Insulin Sensitivity

6:35 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)

7:00 pm End of Sessions

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

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 β 4 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
18-HEPE is Increased in Plasma of Healthy Adults after Intravenous Low-Dose Endotoxin Challenge and n-3 Fatty Acid Supplementation

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 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
- 3:00 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
- 3:25 pm Camille Falck, PhD/DIC, CMXTwenty, Inc., Milwaukee, WI
CMX020, an Eicosanoid Analog for the Management of Acute and Chronic Pain

3:50 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

- 4:10 pm Sean S. Davies, PhD, Vanderbilt University School of Medicine, Nashville, TN
Isolevuglandins and Cardiovascular Disease
- 4:35 pm Arion J. Kennedy, PhD, Vanderbilt University School of Medicine, Nashville, TN
High Fat Diet Leads to IsoLG Accumulation in Adipose Tissue Macrophages
- 5:00 pm Annet Kirabo, DVM/PhD, Vanderbilt University School of Medicine, Nashville, TN
Isolevuglandins, Inflammation and Hypertension
- 5:25 pm Ginger Milne, PhD, Vanderbilt University School of Medicine, Nashville, TN
Isotope-Reinforced Polyunsaturated Lipids (D-PUFAs), Lipid Peroxidation, and Disease
- 5:50 pm End of Monday Sessions
- 6:00-7:30 pm **Poster Session I**
University Ballroom/ABC East Ballroom
Meet Exhibitors

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, University of Verona, Verona, Italy
Craig Lee, PharmD, PhD, UNC Eshelman School of Pharmacy, Chapel Hill, NC

- 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, PharmD/PhD, UNC Eshelman School of Pharmacy, Chapel Hill, NC
Genetic Variation in CYP Epoxygenase 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 Megakaryocytes/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, Medical College of Wisconsin, Milwaukee, WI
Megan M. Shuey, MS, Vanderbilt University, Nashville, TN

- 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

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 stand 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.**