



THE UNIVERSITY OF  
ALABAMA AT BIRMINGHAM

Knowledge that will change your world

July 22-27, 2018

## 6<sup>th</sup> UAB Metabolomics Workshop

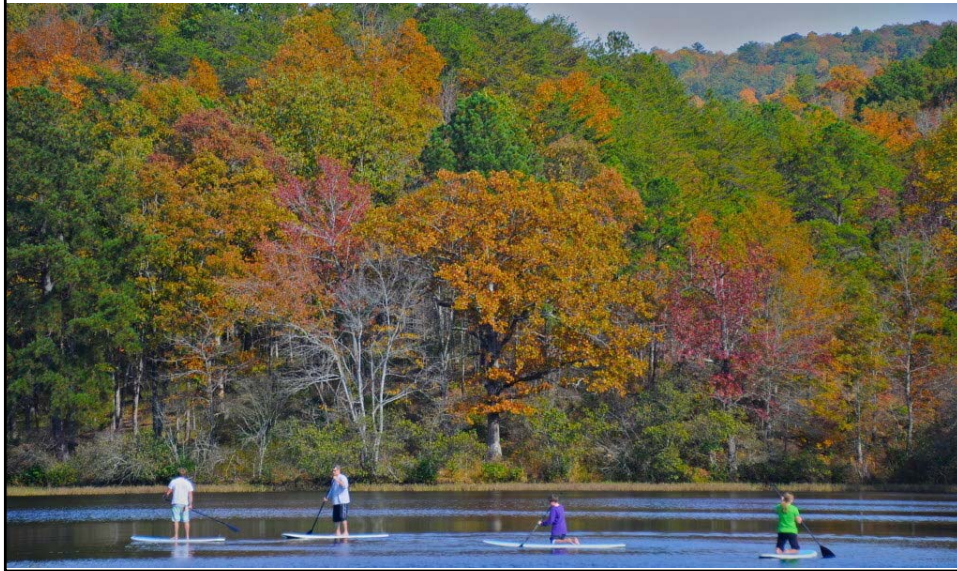
Stephen Barnes, PhD and Hemant Tiwari, PhD  
Course Directors



The City of Birmingham – UAB in the foreground



**Oak Mountain State Park in the Fall**



**Alabama Gulf Coast**



## 2018 Workshop Faculty



Pam Bounelis



Jianhua Zhang



Janusz Kabarowski



Victor Darley-Usmar



Jeevan Prasain



Chris Beecher  
IROA Technologies



Nagana Gowda  
U Washington



George Miller  
NYU



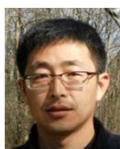
Xiuxia Du  
UNC-Charlotte



Jason Tennesen  
Indiana U



Paul Baker  
Avanti Lipids



Shuzhao Li  
Emory U

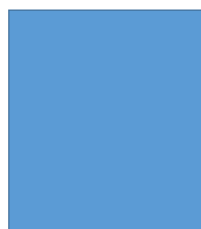


Ragavan, Mukundan  
U Florida

## And by the internet



Corey Broeckling  
Colorado St



Eoin Fahy  
UCSD



Erin Baker  
PNNL, ASMS

By Recorded  
Video



Teresa Fan  
U. Kentucky

## Workshop sponsors

- NIH Common Fund – R25 GM103798
- UAB Office of the Vice-President for Research & Economic Development
- UAB Departments of Chemistry and Pharmacology/Toxicology
- UAB School of Medicine
- UAB Comprehensive Cancer Center
- UAB Comprehensive Cardiovascular Center
- UAB-UCSD O'Brien Acute Kidney Injury Center
- UAB Diabetes Research Center and Comprehensive Diabetes Center
- UAB Center for Free Radical Biology



## Otto Warburg and Sir Hans Krebs

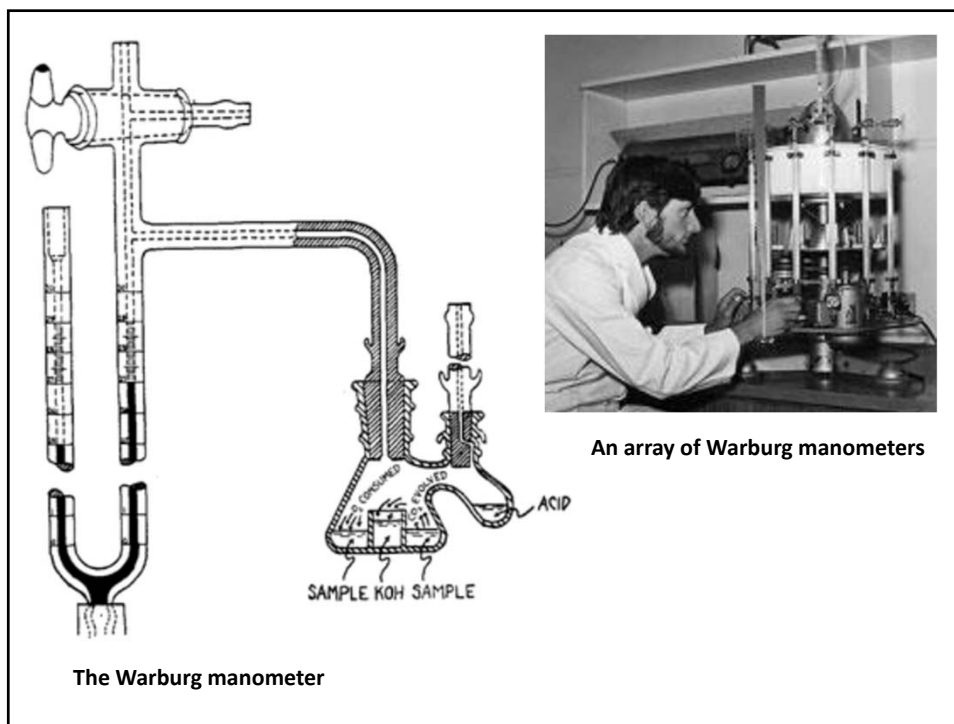


Otto Warburg and his apparatus, precursor of the SeaHorse™



Sir Hans Krebs on a motorized bicycle and discoverer of the "Krebs cycle"

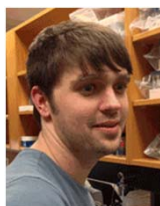
Courtesy of Malcolm Watford



## Other acknowledgements



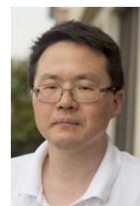
Landon Wilson



Taylor Berryhill



Mikako Kawai



Ron Shin

LaShun Lanier