THE COLLEGE OF SCIENCE NIEUWLAND LECTURE SERIES PRESENTS THE 1ST ANNUAL

MIDWEST METABOLISM MEETING

105 JORDAN HALL OF SCIENCE // UNIVERSITY OF NOTRE DAME // SATURDAY, OCTOBER 20, 2018

SCHEDULE

11:00-11:15 **WELCOME AND OPENING REMARKS**
Zachary Schafer, University of Notre Dame

SESSION I

Moderator: Zachary Schafer

11:15-11:30 **Daniel Kremer** (Costas Lyssiotis Lab), University of Michigan
GOT1 Inhibition Primes Pancreatic Cancer for Ferroptotic Cell Death

11:30-11:45 **Sophia Lunt** Michigan State University
Sialic Acid Metabolism in Metastatic Breast Cancer

11:45-12:00 **Jiyeon Kim** University of Illinois-Chicago
Unconventional Pathways of Nitrogen Metabolism in Lung Cancer

12:00-12:15 **Jordan Cockfield** (Zach Schafer Lab), University of Notre Dame
SGK-1: A Master Regulator for Glucose Metabolism and Survival of ECM-Detached Cells

12:15-12:30 **William Giblin** (David Lombard Lab), University of Michigan
SIRT5 Promotes Human Melanoma Survival

12:30-1:30 **LUNCH**

SESSION II

Moderator: Ji Zhang

1:30-1:45 **Kara Wolfe** (Atsuo Sasaki Lab), University of Cincinnati
The Role of GTP Metabolism in Renal Cell Carcinoma Progression and Metastasis

1:45-2:00 **Issam Ben-Sahra** Northwestern University
Signaling and Metabolic Control of Nucleotide Metabolism

2:00-2:15 **Ning Wu** Van Andel Institute
Regulation of Glucose Uptake via TXNIP

2:15-2:30 **Ji Zhang** Indiana University School of Medicine
The Essential Role of Nonessential Amino Acid Metabolism in Cancer

2:30-2:45 **Michael Petronek** (Doug Spitz lab), University of Iowa
Ironing Out the Details: the Role of Metal Metabolism in Ascorbate Cancer Therapy

3:00-3:15 **BREAK**
(Coffee and Snacks)

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SCHEDULE (CONTINUED)

SESSION III *Moderator: Costas Lyssiotis*

3:15-3:30 **Xin Lu** University of Notre Dame
Protein Nitration: Overcome the Hurdle for Cancer Immunotherapy

3:30-3:45 **Naveen Singh** (David Boothman Lab), Indiana University School of Medicine
The Metabolic Effects of Isobutyl-Deoxynyboquinone (IB-DNQ), a Novel NQO1 Bioactivatable Anti-cancer Agent

3:45-4:00 **Jonathan Coloff** University of Illinois-Chicago
Breast Tumor Lineage Determines Sensitivity to Serine and Glycine Deprivation

4:00-4:15 **Arianne Rodriguez** (Nav Chandel Lab), Northwestern University
Serine Metabolism Supports Macrophage IL-1beta Production

4:15-4:30 **Natalie Niemi** (David Pagliarini Lab), Morgridge Institute for Research
University of Wisconsin-Madison
Pptc7 is an Essential Phosphatase for Promoting Mammalian Mitochondrial Metabolism and Biogenesis

4:30-5:15 **KEYNOTE ADDRESS**
Russell Jones Van Andel Institute
Studying T Cell Metabolism In Vivo

5:15 **CLOSING REMARKS**
Costas Lyssiotis, University of Michigan

ORGANIZERS

Zachary Schafer (University of Notre Dame)
Costas Lyssiotis (University of Michigan)
Ji Zhang (Indiana University School of Medicine)

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