



THE METABOLIC PHYSIOLOGY MEETING 2023

MAY 1 – 4 @ THE Beach House HILTON HEAD ISLAND

Monday, May 1st 2023

3.00pm – 5.00pm: **CHECK IN AND MEETING REGISTRATION**

5.00pm – 7.00pm: **WELCOME RECEPTION BY THE POOLSIDE**

Tuesday, May 2nd 2023

7.30am – 8.25am: **BREAKFAST IN SAND AND SURF BALLROOM**



METABOLIC INTEGRATION AT THE NUCLEUS i. CHAIR: **PHILLIP WHITE**, DUKE

8.30am: ROLE OF GLUCOSE SENSING IN HEPATIC LIVER DISEASES. **CATHERINE POSTIC**, INSERM

9.00am: FATTY ACID MIMETIC INHIBITS DIET-INDUCED OBESITY AND NAFLD. **CAROLYN CUMMINS**, TORONTO

9.30am: ACYL-COAS IN THE NUCLEAR COMPARTMENT. **SOPHIE TREFELY**, BABRAHAM INSTITUTE UK

10.00am: METASTAT: THE GREAT RESET OF METABOLISM. **XIAOYONG YANG**, YALE

10.15am – 10.30am MORNING BREAK

METABOLIC INTEGRATION AT THE NUCLEUS ii. CHAIR: **ROB MCGARRAH**, DUKE

10.30am: UNLOCKING THE THERMOGENIC POTENTIAL OF WHITE FAT CELLS. **RANA GUPTA**, DUKE

11.00am: PANCREATIC BETA CELL HETEROGENEITY AND ITS ROLE IN TYPE 2 DIABETES. **JAMES LO**, CORNELL

11.30am: TURNING THE GENETICIST'S NIGHTMARE INTO SWEET DREAMS. **ANNA GLOYN**, STANFORD

12.00am: LOSS OF ARGLU1 PROTECTS AGAINST GLUCOCORTICOID-INDUCED DIABETES. **FLORIAN LE BILLAN**, TORONTO

12.15pm – 2.55pm AFTERNOON BREAK

SYSTEMS BIOLOGY OF GLUCOSE METABOLISM CHAIR: **ERIN MULVIHILL**, OTTAWA

3.00pm: REGULATION OF MUSCLE METABOLISM BY INSULIN SIGNALING. **PAUL TITCHENELL**, UPENN

3.30pm: CONSEQUENCES OF ALTERED METABOLIC FLEXIBILITY: THE MANY FACES OF PGC1 α . **JENNIFER ESTALL**, M^CGILL

4.00pm: THE EMERGING POTENTIAL OF GIP. **JON CAMPBELL**, DUKE

4.30pm: A GLP-1R AGONIST-FGF21 INTERACTION REGULATES BODY WEIGHT. **JULIO AYALA**, VANDERBILT

4.45pm – 5.00pm EVENING BREAK

novo nordisk **KEYNOTE LECTURE**

5.00pm: COENZYME Q, INSULIN RESISTANCE & LEVERAGING GENETIC DIVERSITY TO UNLOCK THE MYSTERIES OF METABOLIC HEALTH.

DAVID JAMES, SYDNEY

6.00pm – 7.30pm: ATOMIC  Poster Session & Reception. IN THE SKY ROOM AND SKY ROOM DECK



WEDNESDAY, MAY 3RD 2023



9.30am – 8.25am: BREAKFAST IN THE SAND AND SURF BALLROOM

IMMUNOMETABOLISM IN HEALTH AND DISEASE CHAIR: **TARA TESLAA**, UCLA

8.30am: DIETARY LIPIDS AND ANTI-TUMOR IMMUNITY. **LYDIA LYNCH**, HARVARD

9.00am: TUMORS HIJACK MITOCHONDRIAL FUNCTION TO FACILITATE IMMUNOSUPPRESSION. **STAN HUANG**, CASE

9.30am: ALLEVIATING ATHEROSCLEROSIS THROUGH DESTRESSING PLAQUES. **EBRU ERBAY**, ALTOS LABS

10.00am: CENTRAL GLUCOSE METABOLISM: IMPACT ON TH17 CELL FUNCTION. **DIRK BRENNER**, LUXEMBOURG

10.30am: GLYCINE HOMEOSTASIS REQUIRES REVERSE SHMT FLUX. **MATTHEW MCBRIDE**, PRINCETON

10.45am – 11.00am MORNING BREAK

METABOLIC REWIRING IN CANCER CHAIR: **KELSEY FISHER-WELLMAN**, ECU

11.00am: HANGRY CANCER CELLS: NUTRITIONAL STRESS IN CANCER BIOLOGY. **ALEX MUIR**, CHICAGO

11.30am: METABOLIC DEPENDENCIES IN GENETIC SUBSETS OF LUNG CANCER. **THALES PAPAGIANNAKOPOULOS**, NYU

12.00pm: THE METABOLIC DETERMINANTS OF CELL GROWTH. **GERTA HOXHAI**, UTSW

12.30pm: UNIQUE METABOLIC REWIRING IN AN EARLY-ONSET RARE CANCER. **PRAVEEN SETHUPATHY**, CORNELL

1.00pm: ONCOGENIC IDH MUTATIONS INCREASE REPLICATION STRESS. **GRACE FORSYTH**, COLUMBIA

1.15pm – 2.55pm AFTERNOON BREAK

METABOLIC FUELS AND SIGNALS CHAIR: **YANN DELEYE**, DUKE

3.00pm: UCP1-INDEPENDENT MECHANISMS OF ENERGY HOMEOSTASIS. **SHINGO KAJIMURA**, HARVARD

3.30pm: A NEW METABOLIC NETWORK SHAPING PROTEOSTASIS. **PHILLIP WHITE**, DUKE

4.00pm: EXERCISE-INDUCED SIGNALING LIPIDS IMPROVE METABOLIC HEALTH. **KRISTIN STANFORD**, OSU

4.30pm: KETONE FLUX SUPPORTS METABOLIC REMODELING IN RESPONSE TO ITRF. **ASHLEY WILLIAMS**, DUKE

4.45pm – 5.00pm EVENING BREAK

THE INAUGURAL SABLE AWARD LECTURE

5.00pm: THE SABLE AWARD LECTURE WILL BE GIVEN BY A SCIENTIST AT THE MID-CAREER STAGE WHO HAS MADE OUTSTANDING CONTRIBUTIONS TO THE FIELD OF METABOLIC PHYSIOLOGY.

RECIPIENT TO BE ANNOUNCED AT THE MEETING

6.30pm – 9.00pm: CLOSING DINNER RECEPTION. ON THE TIKI BEACH.

