MONDAY 4TH JULY

Registration at the Venue from 6:00 pm

7:00 - 8:30 pm Welcome Reception and Opening Ceremony

TUESDAY 5TH JULY

8:30-9:10 am Plenary Lecture

Chair: Lucia Hipólito (University of Valencia)

Dr. Chris Evans (University of California Los Angeles)

How did it come to be, and what is the trajectory?

9:10-9:20 am Discussion

9:20 – 11:00 am Symposium 1. DEVELOPMENT OF KOR AGONISTS AS THERAPEUTIC AGENTS

Chair: Lee-Yuan Liu-Chen (Temple University)

9:20 - 9:40 am Hiroshi Nagase (University of Tsukuba)
9:40 - 10:00 am Saadet Inan (Temple University)

10:00 -10:20 am Coffee Break

10:20 - 10:40 am Thomas Prisinzano (University of Kentucky)
10:40 – 11:00 am Lee-Yuan Liu-Chen (Temple University).

11:00 – 11:10 am Discussion

11:10 – 11:50 am Hot topic. CHEMISTRY, STRUCTURAL BIOLOGY AND COMPUTATIONAL APPROACHES TO DESIGN NEW OPIOID LIGANDS

Chair: Susruta Majumdar (UHSP/Washington University)

11:10 - 11:20 am Susruta Majumdar (UHSP/Washington University)
11:20 – 11:30 am Vsevolod "Seva" Katritch (University of Southern California)
11:30 – 11:40 am Nurulain Zaveri (Astraea Therapeutics)
11:40 – 11:50 am Tao Che (Washington University)

11:50 am – 12:00 pm Discussion

12:00 – 12:30 pm Data Blitz

Chairs: Ream Al-Hasani (University of Health Sciences and Pharmacy/ Washington University) and Meritxell Canals (Nottingham University)

12:30 – 1:30 pm Lunch

1:30 – 2:50 pm Symposium 2. NEW TOOLS FOR IN-VIVO STUDIES OF SIGNALING AND CIRCUITS

Chair: Patrick O’Neill (University of California)

1:30 – 1:50 pm Matthew Banghart (University of California)
1:50 - 2:10 pm Yao Chen (Washington University School of Medicine)
2:10 – 2:30 pm Patrick O’Neill (University of California)
2:30 – 2:50 pm Carrie Stine (University of Washington)

2:50 – 3:00 pm Discussion

3:00 – 4:00 pm Symposium 3. THE ROLE OF OPIOID RECEPTORS IN HEADACHE

Chair: Amynah Pradhan (University of Illinois Chicago)

3:00 – 3:20 pm Amynah Pradhan (University of Illinois Chicago)
3:20 – 3:40 pm Katarzyna Targowska-Duda (Medical University of Lublin)
3:40 – 4:00 pm Frank Porreca (University of Arizona)

4:00 – 4:10 pm Discussion
4:10 – 6:00 pm POSTER SESSION WITH COFFEE

WEDNESDAY 6TH JULY

8:30-9:10 am Plenary Lecture

Chair: Amynah Pradhan (University of Illinois Chicago)

Dr. Brigitte Kieffer (INSERM/University of Strasbourg France)

Opioid receptors: 30 years into brain function

9:10-9:20 am Discussion

9:20 – 11:00 am Symposium 4: MECHANISMS OF FUNCTION OF ENDOGENOUS AND EXOGENOUS OPIOIDS IN PAIN, REWARD AND AFFECTIVE NEURAL CIRCUITS

Chair: Greg Scherrer (University of North Carolina at Chapel Hill)

9:20 - 9:40 am Meaghan Creed (Washington University)
9:40 - 10:00 am Michael Bruchas (University of Washington),

10:00 -10:20 am Coffee Break

10:20 - 10:40 Lola Welsch (University of Strasbourg/INSERM)
10:40 – 11:00 Greg Scherrer (University of North Carolina at Chapel Hill)

11:00 – 11:10 am Discussion

11:10 – 11:50 am Hot topic. PREFRONTAL CORTICAL OPIOID SYSTEMS: FROM SYNAPSES TO AFFECTIVE- AND PAIN-RELATED BEHAVIOR

Chair: Hugo Tejeda (NIMH-IRP)

11:10 - 11:20 am Huikun Wang (NIMH / NIH)
11:20 – 11:30 am Gregory Corder (University of Pennsylvania)
11:30 – 11:40 am William Birdsong (University of Michigan)
11:40 – 11:50 am Patrick Sheets (Indiana University School of Medicine)

11:50 am – 12:00 pm Discussion

12:00 – 12:30 pm Data Blitz
Chairs: Ream Al-Hasani (University of Health Sciences and Pharmacy/ Washington University) and Meri Canals (Nottingham University)

12:30 – 1:30 pm Lunch

1:30 – 2:50 pm Symposium 5. THE GUT-BRAIN-AXIS: A KEY REGULATOR OF OPIOID PHARMACOLOGY OR JUST A GUT FEELING?

Chair: Anna Taylor (University of Alberta) and Felix Effah (St.George's University of London)

1:30 – 1:50 pm Hamid Akbarali (Virginia Commonwealth University)
1:50 - 2:10 pm Michelle Ren (University of California Irvine)
2:10 – 2:30 pm Alexis Bailey (St.George's University of London)
2:30 – 2:50 pm John Streicher (University of Arizona)

2:50 – 3:00 pm Discussion

3:00 – 4:00 pm Founder’s Lecture

Fred Nyberg (Uppsala University)

From CSF to reversal of opioid-induced damages to the brain

Christoph Stein (Charité Universitätsmedizin Berlin)

Pain inhibition via peripheral opioid receptors

4:00 – 6:00 pm POSTER SESSION WITH COFFEE

8:30 pm INRC Bar (to be announce during the meeting). A get together in a bar downtown.

THURSDAY 7th July

8:30-11:00 am Young Investigator Awards 2020, 2021 and 2022

Chair: Lee-Yuan Liu-Chen (Temple University)

8:30 – 9:20 am YIA 2020: Dr. Ream Al-Hasani (Washington University)

9:20 – 10:10 am YIA 2021 Dr. Richard M. van Rijn (Purdue University)

10:10 – 11:00 am YIA 2022 to be elected
11:00 - 10:20 am Coffee Break

11:20 am - 12:50 pm Symposium 6 “MJ Kreek Memorial Symposium”. SEX SPECIFIC OPIOID SIGNALING: IMPLICATIONS FOR PAIN MANAGEMENT AND ABUSE POTENTIAL

11:20 – 11:30 am MJ Kreek Memorial. Brian Reed (Rockefeller University)

Chair: Anne Murphy (Georgia State University)

11:30 – 11:50 am Anne Murphy (Georgia State University)
11:50 – 12:10 am Yanaira Alonso-Carballo (Harvard University)
12:10 – 12:30 am Jessica Higginbotham’s (Washington University)
12:30 – 12:50 am Tom Kash (University of North Carolina Chapel Hill)

12:50 am– 1:00 pm Discussion

1:00 – 2:00 pm Lunch

2:00 – 3:30 pm Symposium 7. NEONATAL OPIOID EXPOSURE: IMMEDIATE AND LONG-TERM CONSEQUENCES

Chair: Julie Blendy (University of Pennsylvania)

2:00 – 2:20 pm Shivon Robinson (Williams College)
2:20 - 2:40 pm Camron Bryant (Boston University)
2:40 – 3:00 pm Marwa Kikati (Washington University in St. Louis)
3:00 – 3:20 pm Brady Atwood (Indiana University)

3:20 – 3:30 pm Discussion

4:00 – 5:30 pm Mentoring activities

19:00 Visit to Ciudad de las Artes y las Ciencias and get together at El Contrapunto

FRIDAY 8TH JULY

8:30-9:10 am Plenary Lecture

Chair: Jose Morón-Concepción (Washington University)

Dr. Robert W. Gereau (Washington University)
Implantable wireless systems for the study and treatment of pain, substance use disorder, and overdose

9:10-9:10 am Discussion

9:20 – 11:00 am Symposium 8. DYNORPHIN AND KOR SIGNALING CONTROLLING PAIN

Chair: Charles Chavkin (University of Washington)

9:20 - 9:40 Nicolas Massaly (Washington University)
9:40 - 10:00 Elyssa Margolis (University of California San Francisco)

10:00 -10:20 am Coffee Break

10:20 - 10:40 Hugo Tejeda (NIMH-IRP)
10:40 – 11:00 Charles Chavkin (University of Washington)

11:00 – 11:10 am Discussion


Chairs: Yolanda Campos-Jurado, Arbi Nazarian (Western University School of Medicine) and Sulie L. Chang (Institute of NeuroImmune Pharmacology/Seton Hall University)

Part I: Pain and opioid addiction

11:10 – 11: 30 am Arbi Nazarian (Western University School of Medicine)
11:30 – 11:50 am S. Stevens Negus (Virginia Commonwealth University)
11:50 am - 12:10 pm Catherine M. Cahill (University of California Los Angeles)
12:10 – 12:20 pm Discussion

Part II: Pain, alcohol addiction and opioid receptors

12:20 – 12:40 pm Sulie L. Chang (Institute of NeuroImmune Pharmacology/Seton Hall University)
12:40 - 1:00 pm Javier Cuitavi (University of Valencia)
1:00 – 1:20 pm Yolanda Campos-Jurado (Washington University)
1:20 -1:30 pm Discussion

1:30 – 2:30 pm Lunch

2:30 – 3:50 pm Symposium 10. OPIOIDS AND CANNABINOIDS FOR PAIN: TRANSLATIONAL RESEARCH SESSION
Chair: Kelly Dunn (Johns Hopkins University)

2:30 - 2:50 pm Lawrence Carter (University of Texas Health Science Center,
2:50 - 3:10 pm Ziva Cooper (University of California Los Angeles)
3:10 - 3:30 pm Kelly Dunn (Johns Hopkins University)
3:30 – 3:50 pm Cecilia Bergeria (Johns Hopkins University)

3:50 -4:00 pm Discussion

4:00 – 4:20 pm Coffee break

4:20 – 5:20 pm Business meeting

5:20 – Closing Remarks and Farewell: INRC Best Poster and Best PhD Award (Brain Sciences, MDPI) Ceremony.

7:30 pm Bus to Gala Dinner

8:00 Gala Dinner at Hotel Las Arenas