

WEDNESDAY 8

13,00 – 14,45. LUNCH.

14,45 – 15,00. WELCOME WORDS.

SESSION 1

S1 - 15,00-15,30 “Conformational changes during CLC transport cycle.”

Daniel Basilio (Universidad de Chile)

S2 - 15,30-16,00 “Excitability at low temperature: lessons from an antartic limpet.”

Patricio Rojas (Universidad de Santiago)

S3 - 16,00-16,30 “A simple light sheet extension for existing upright microscopes allowing triple colour imaging.”

Anselm Zdebik (University College London)

OP1 - 16,30-16,45 “BK channels as molecular marker for acclimation to sea water of Atlantic salmon (*Salmo salar*).”

Francisco Morera (Universidad Austral de Chile)

16,45–17,15 COFFEE BREAK

SESSION 2

S4 - 17,15-17,45 “The synthetic voltage-gated K⁺ channels SKIN and SKOUT share >90% identity but exhibit opposite rectification behavior.”

Ingo Dreyer (Universidad de Talca & Universidad Politécnica de Madrid)

S5 - 17,45-18,15 “Molecular modeling and structural analysis of the two-pore domain potassium channel TASK-1 interacting with the blocker A1899.”

Wendy Gonzalez (Universidad de Talca)

OP2 - 18,15-18,30 “Variable gating of voltage-gated potassium channels – A new hypothesis.”

Janin Riedelsberger (Universidad de Talca)

OP3 - 18,30-18,45 “The $\beta 1$ subunit N-terminus is involved in the modulation of a subunit voltage sensor of BK channels.”

Karen Castillo (Centro Interdisciplinario de Neurociencia de Valparaíso)

OP4 - 18,45-19,00 “Gating currents of monomeric Hv channel reveals a permeation pathway coupled to the voltage activation.”

David Baez-Nieto (Centro Interdisciplinario de Neurociencia de Valparaíso)

PLENARY LECTURE I

19,15-20,00 “TASK-2 two-pore-domain K⁺ channel: thoughts about gating and its fitness to physiological function.”

Francisco V. Sepúlveda (Centro de Estudios Científicos, Valdivia)

WELCOME RECEPTION & DINNER

THURSDAY 9

SESSION 3

S6 - 09,30-10,00 “Contribution of N-terminal domain to thermal and chemical responses of TRPM8 ion channels.”

María Pertusa (Universidad de Santiago)

OP5 - 10,00-10,15 “Mapping agonist-induced molecular rearrangements in trpm8 channels.”

Vicente González-Teuber (Universidad Austral de Chile)

OP6 - 10,15-10,30 “Exclusion of exon 6b in TMEM16A of PC3 prostate carcinoma cells generates a MAPK1 docking motif and removes a recognition motif for protein degradation.”

Imai Nesvara (Universidad de Chile)

OP7 - 10,30-10,45 “Cav1.2 interaction with AT₁R reduces receptor internalization.”

Cristian Moreno (Universidad de Chile)

OP8 - 10,45-11,00 “A novel motif required for the exporting of TRPM4.”

Aníbal Romero (Universidad de Chile)

11,00 – 11,30 COFFEE BREAK

SESSION 4: DATA BLITZ

DB1 - 11,30-11,40 “Direct interactions of TASK-2 potassium channel with components of the HCO₃⁻ transport machinery.”

Camilo Toledo (Centro de Estudios Científicos, Valdivia)

DB2 - 11,40-11,50 “Intracellular blockers design targeting TASK-3 potassium channels.”

David Ramírez (Universidad de Talca)

DB3 - 11,50-12,00 “Rational design and synthesis of selective blockers of the K₂P channel TASK-3.”

Bárbara Arévalo (Universidad de Talca)

DB4 - 12,00-12,10 “ β subunit modify the total gating charge movement of BK channels.”

Yenisleidy Lorenzo (Centro Interdisciplinario de Neurociencia de Valparaíso)

DB5 - 12,10-12,20 “Permeation mechanism of the voltage-gated proton channel Hv1.”

Amaury Pupo (Centro Interdisciplinario de Neurociencia de Valparaíso y Universidad de Valparaíso)

DB6 - 12,20-12,30 “Mutations in TRPM4-SxIP motif reduces channel activity.”

Danna Morales (Universidad de Chile)

DB7 - 12,30-12,40 “Modulation of β -arrestin interaction with Cav1.2 by AngII.”

Matías Encina (Universidad de Chile)

DB8 - 12,40-12,50 “Effects of KCNN4 inhibition in a mouse model of asthma.”

Amber Philp (Centro de Estudios Científicos, Valdivia)

13,00 – 14,45. LUNCH.

SESSION 5

S7 - 15,00-15,30 “TRPM4 is a novel component of the adhesome required for biomechanical remodeling during wound healing.”

Oscar Cerda (Universidad de Chile)

S8 - 15,30-16,00 “Transient receptor potential vanilloid 1 potentiation contributes to pruritogenesis in a rat model of liver disease.”

Rosa Planells-Cases (Centro de Investigación Príncipe Felipe, Valencia; Leibniz-Institut FMP and Max Delbrück-Centrum MDC Berlin)

S9 - 16,00-16,30 “Role of the excitability break potassium current I_{KD} in cold allodynia.”

Alejandro González (Universidad de Santiago)

OP9 - 16,30-16,45 “Contribution of TRPM8 channels in the altered sensitivity to cold of corneal primary sensory neurons in response to axonal damage.”

Ricardo Piña (Universidad de Santiago y Universidad de Chile)

OP10 - 16,45-17,00 “Differential expression of leak potassium channels and cyclic nucleotide-gated (HCN) channels in cerebellar granule neurons of rat.”

Leandro Zuñiga (Universidad de Talca)

SPECIAL ANNOUNCEMENT

17,10-17,30 “The Chilean Biophysical Society.”

Carlos González (Centro Interdisciplinario de Neurociencia de Valparaíso)

17,10 – 17,30 COFFEE BREAK

SOCIAL EVENT TBA.

DINNER

FRIDAY 10

S10 - 09,30-10,00 “TRP channels function during fertilization.”

Ingrid Carvacho (Aarhus University)

S11 - 10,00-10,30 “Intracellular ATP-regulation of an extracellular ATP-gated channel.”

Claudio Coddou (Universidad Católica del Norte)

S12 – 10,30-11,00 “*State dependent Inhibition of Bacterial Sodium Channels by μ -Contoxins.*”

Rocio Finol-Urdaneta (University of Calgary)

OP11 - 11,00-11,15 “*Chloride and potassium channels in mouse trachea.*”

Carlos Flores (Centro de Estudios Científicos, Valdivia)

OP12 - 11,15-11,30 “*Cloning and characterization of α CaT-1: a new member of TRP channel superfamily from *Xenopus laevis* oocytes.*”

Hans Moldenhauer (Centro Interdisciplinario de Neurociencia de Valparaíso)

OP13 - 11,30-11,45 “*Voltage-dependence in Cx26 hemichannels.*”

Bernardo Pinto (Centro Interdisciplinario de Neurociencia de Valparaíso)

11,45 – 12,15 COFFEE BREAK

PLENARY LECTURE 2

12,15-13,00 “*Molecular composition of the volume-regulated osmolyte and anion channel VRAC/VSOAC.*”

Thomas Jentsch (Leibniz-institut für Molekulare Pharmacologie (FMP) und Max-Delbrück-Centrum für Molekulare Medizin (MDC))

13,00 – 13,15. CONCLUDING REMARKS.

13,10 – 15,00. LUNCH.

AFTERNOON SPECIAL:

VISIT TO CAVAS DEL VALLE WINERY

(ASK FOR DETAILS!)