POSTER PRESENTATIONS

Excitation-secretion coupling

1. A NEW IN VIVO STRATEGY TO INVESTIGATE THE CONTRIBUTION OF GAP JUNCTIONS TO EXCITATION-SECRETION COUPLING IN THE MOUSE ADRENAL MEDULLA. Michel G. Desarménien, Carole Jourdan, Irena Iankova and Nathalie C. Guérineau

2. CONNEXIN 36 NETWORK IN PANCREATIC IN BETA CELLS. Pérez Armendariz EM, Zacarías Clímaco G., Cruz Miguel L., Pérez-Flores, A., Coronel Cruz C.

3. **BOVINE CHROMAFFIN CELLS CONTAIN A MODULATED ALPHA-7 NICOTINIC RECEPTOR THAT CAN INDUCE CYTOSOLIC CALCIUM SIGNALS AND CATECHOLAMINE EXOCYTOSIS.** Laura del Barrio, Javier Egea, Rafael León, Alejandro Romero, Ana Ruiz, Maite Montero, Javier Álvarez and Manuela G. López.

Calcium channels

4. **CALCIUM CHANNELS IN HUMAN CHROMAFFIN CELLS: PHARMACOLOGICAL AND BIOPHYSICAL PROPERTIES AND SUBTYPE DISTRIBUTIONS.** Alberto Pérez-Alvarez, Alicia Hernández-Vivanco, Maria Francisca Cano-Abad, Jose Carlos Caba-González and Almudena Albillos.

5. **LOSS OF CAV1.3 CHANNELS REVEALS THE CRITICAL ROLE OF L-TYPE AND BK-CHANNEL COUPLING IN PACEMAKING MOUSE ADRENAL CHROMAFFIN CELLS.** David H.F. Vandael, Andrea Marcantoni, Satyajit Mahapatra1, Valentina Carabelli, Martina J. Sinnegger-Brauns, Joerg Striessnig, Emilio Carbone

6. **OPPOSING ROLE OF cAMP AND cGMP IN MODULATING CAV 1.2 AND CAV 1.3 CHANNELS IN MOUSE CHROMAFFIN CELLS.** Satyajit Mahapatra, Valentina Carabelli, Andrea Marcantoni, Joerg Striessnig, Emilio Carbone.

7. AUTOCRINE-PARACRINE MODULATION OF CALCIUM CURRENT BY ATP AND OPIOIDS IN CHROMAFFIN CELLS FROM ACUTE RAT ADRENAL SLICES. Alejandre-García T. *, Segura-Chama P., Hernández-Cortés A., Jiménez-Pérez N., Rivera-Cerecedo C.V. and Hernández-Cruz A.

8. **VOLTAGE-DEPENDENT MODULATION OF CALCIUM CURRENTS IN CHROMAFFIN CELLS OF ADRENAL MEDULLAE SLICES FROM SPONTANEOUSLY HYPERTENSIVE AND WISTAR KYOTO RATS.** Hernández-Cortés, A* Segura-Chama, P. Jiménez-Pérez, N. Alejandre-García, T. Rivera-Cerecedo, C.V. and Hernández-Cruz A.

9. **COMPARISON OF MACROSCOPIC CALCIUM CURRENTS IN CHROMAFFIN CELLS FROM NORMOTENSIVE WISTAR KYOTO (WKY) AND SPONTANEOUSLY HYPERTENSIVE RATS (SHR).** Segura-Chama P.*, Hernández-Cortés A., Jiménez-Pérez N., Alejandre-García T., Rivera-Cerecedo C.V. and Hernández-Cruz A.

10. **SIMULTANEOUS RECORDING OF L-TYPE CURRENTS AND EXOCYTOTIC EVENTS IN WILD-TYPE AND CAv1.3$^{-/-}$ MOUSE CHROMAFFIN CELLS.** Victor Navarro-Tableros, Valentina Carabelli, Joerg Striessnig, Emilio Carbone.

11. ESTRADIOL INHIBITS DEPOLARIZATION-INDUCED EXOCYTOSIS IN PC12 CELLS VIA N-TYPE VOLTAGE-GATED CALCIUM CHANNELS. Kelly L. Adams,, Marc M. Maxson, Lisa Mellander, Remco H. S. Westerink and Andrew G. Ewing.

12. **THE CALCIUM CHANNEL -SUBUNIT REGULATES THE CATECHOLAMINE QUANTAL SIZE IN CHROMAFFIN CELLS.** González Jamett A, Guerra MJ, Hevia M, Hidalgo P, Neely Alan , Cárdenas AM.

13. **L-TYPE Ca^{2+} CHANNELS DOMINATE EXOCYTOSIS TRIGGERED BY K^{+} AND HYPOXIA IN RAT EMBRYO CHROMAFFIN CELLS.** Fernández-Morales JC, Cortes-Gil L, G García A, G de Diego AM.

14. **ROLE IN EXOCYTOSIS AND CELL EXCITABILITY OF Cav1 CHANNELS IN MOUSE CHROMAFFIN CELLS.** Alberto Pérez-Alvarez*, Alicia Hernández-Vivanco*, Jose Carlos Caba-González, Martina Sinnegger-Brauns, Joerg Striessnig1 and Almudena Albillos

Calcium Signaling

15. **CALCIUM TRIGGERING OF NEURONAL SOMATIC EXOCYTOSIS OF SEROTONIN.** Carolina León Pinzón Paula Noguez, Montserrat G. Cercós, Citlali Trueta and Francisco F. De Miguel.

16. CONTRIBUTION OF INTRACELLULAR CALCIUM STORES TO SEROTONIN RELEASE FROM DIFFERENT VESICULAR POOLS. Montserrat G. Cercós , Carolina Leon-Pinzón, Francisco F. De-Miguel and Citlali Trueta.

17. **GREATER CYTOSOLIC AND MITOCHONDRIAL CALCIUM TRANSIENTS IN ADRENAL MEDULLARY SLICES OF HYPERTENSIVE, COMPARED WITH NORMOTENSIVE RATS.** Regiane Miranda-Ferreira; Ricardo de Pascual; Soraya S. Smaili; Afonso Caricati-Neto; Luis Gandía; Antonio G. García and Aron Jurkiewicz.

18. SYNAPTIC PROTEIN INTERACTION SITE MODULATES P/Q Ca^{2+} CURRENT AND EXOCYTOSIS OF IMMEDIATELY RELEASABLE POOL IN MOUSE CHROMAFFIN CELLS. Yanina D. Álvarez, Andrés Perez Bay, Scott E.Javis, H. W.Tedford, Gerald Zamponi and Fernando D. Marengo.

19. **INTRACELLULAR CA^{2+} IN PHYSIOLOGICAL RANGE AFFECTS PRIMING & DOCKING OF LARGE DENSE CORE VESICLES.** Mathias Pasche, Detlef Hof, Ulf Matti, Jens Rettig & Ute Becherer

20. **SPONTANEOUS CALCIUM TRANSIENTS OF CHROMAFFIN CELLS IN ACUTE ADRENAL SLICES FROM NORMOTENSIVE WISTAR KYOTO (WKY) AND SPONTANEOUSLY HYPERTENSIVE RATS (SHR).** *Jiménez-Pérez, Segura-Chama, P. Hernández-Cortés, A* N. Alejandre-García, T. Rivera-Cerecedo, C.V. and Hernández-Cruz A.*

Protein-protein interactions

21. **ELECTROCHEMICALLY PROBING INDIVIDUAL VESICLES IN A CELL-FREE MODEL REVEALS THAT ONLY A FRACTION OF NEUROTRANSMITTER CONTENT IS RELEASED DURING EXOCYTOSIS.** Donna M. Omiatek, Yan Dong, Michael L. Heien, and Andrew G. Ewing.

22. **CYTOSKELETAL MOTORS CONTRIBUTE TO NEURONAL SOMATIC EXOCYTOSIS OF SEROTONIN.** Paula L. Noguez, Carlos Bustos, Gabriela S. Torres, Ivan Santamaría-Holek, José M. Rubí and Francisco F. De Miguel.

23. MANIPULATION OF PI3-KINASE δ/PTEN ACTIVITIES UNCOVERS A ROLE FOR PTDINS(4,5)P_2 IN MOBILIZING SECRETORY VESICLES TO THE PLASMALEMMA IN CHROMAFFIN CELLS Peter J Wen, Shona L Osborne, Mark Zanin, Damien J Keating, Frederic A. Meunier.

24. **MOLECULAR ORGANISATION OF T-SNARES ON THE PLASMA MEMBRANE.** Alison Dun, Claire N. Medine, Colin Rickman, Amy Gray, David J. Moulton, Magaraj Halemani, Silvio Rizzoli, Thorsten Lang, Luke H. Chamberlain and Rory R. Duncan.

25. **THE FUNCTIONAL SIGNIFICANCE OF THE N-TERMINAL SYNTAXIN-MUNC18-1 INTERACTION.** Annya M. Smyth, Colin Rickman and Rory R. Duncan

26. **DEVELOPMENT OF SENSITIZED EMISSION TIRF-FRET MICROSCOPY TO MONITOR DYNAMIC PROTEIN INTERACTIONS IN LIVING CELLS.** Alice D. Lam* and Edward L. Stuenkel.

27. **MUTATIONS IN MUNC 18-1 HYDROPHOBIC POCKET ABOLISH SNARE COMPLEX INTERACTION BUT HAVE A SURPRISINGLY LIMITED IMPACT ON EXOCYTOSIS IN PC12 CELLS.** Nancy T Malintan, Tam H. Nguyen, Liping Han, Catherine F. Latham, Shona L. Osborne, Peter J. Wen, Siew Joo Tiffany Lim, Shuzo Sugita, Brett M. Collins, Frederic A. Meunier.

Modulation

28. **CHROMOGRANINS EXPRESSION AND EXOCYTOSIS IN CHROMAFFIN CELLS.** Natalia Domínguez, Jésica Díaz-Vera,Yézer González, Miriam Rodríguez, Ricardo Borges and José D. Machado.

29. TRANSCRIPTIONAL REGULATION OF THE CHROMOGRANIN A GENE, AND COMMON GENETIC VARIANTS. Stephane. Chiron, Yuquing. Chen and Daniel T. O'Connor

30. ON THE ROLE OF CHROMOGRANINS IN THE STORAGE OF CATECHOLAMINES AND EXOCYTOSIS IN CHROMAFFIN CELLS. José D. Machado, Jésica Díaz-Vera, Juan R. Hernández-Fernaud, Natalia Domínguez and Ricardo Borges.

31. **THE SECRETORY PROHORMONE SECRETOGRANIN II REGULATES DENSE-CORE SECRETORY GRANULE BIOGENESIS IN CATECHOLAMINERGIC CELLS.** Maïté Courel, Alejandro Soler-Jover, Juan L. Rodriguez-Flores, Sushil K. Mahata, Salah Elias, Maïté Montero-Hadjadje, Youssef Anouar, Richard J. Giuly, Daniel T. O'Connor1, and Laurent Taupenot.

32. **DISSOCIATION OF EXOCYTOSIS AND ENDOCYTOSIS IN CHROMAFFIN CELLS DIALYSED WITH SPHINGOSINE.** Juliana M. Rosa, Luis Miguel Gutiérrez, Antonio G. García and Luis Gandía.

33. **ALTERATION IN EXOCYTOTIC EVENTS CAUSED BY THE VESICULAR ACCUMULATION OF DRUGS.** Daniel Pereda, Yézer González, Beatriz Beltrán, Miriam Rodríguez, José D. Machado and Ricardo Borges

34. **EFFECTS OF TWO CNIDARIAN POISONS ON INSULIN SECRETION.** Carlos Manlio Díaz-García, Carmen Sanchez-Soto, Deyanira Fuentes-Silva, Neivys García-Delgado, Dany Domínguez-Pérez, Acela Pedroso, Carlos Varela, Adela Rodríguez, Olga Castañeda Pasarón and Marcia Hiriart.

Intracellular signalling

35. **TOMOSYN'S INTRAMOLECULAR AND INTERMOLECULAR DYNAMICS** Noa Bielopolski, Alice D. Lam, Daphna Meroz, Edward L. Stuenkel, Nir Ben-Tal and Uri Ashery.

36. **IDENTIFICATION OF DISTINCT TARGET GENE COHORTS INDUCED BY TNF AND PACAP IN BOVINE CHROMAFFIN CELLS WITH MICROARRAY ANALYSIS USING AGILENT AND AFFYMETRIX PLATFORMS.** Babru B. Samal*, Mariam Alaka, Richard Braxton, Abdel Elkahoun, Djida Ait-Ali and Lee E. Eiden.

37. **INTERLEUKIN-6 MEDIATED SIGNALLING IN ADRENAL MEDULLARY CHROMAFFIN CELLS.** Stephen J. Bunn, Fiona Carman, Dharshini Screenivasan and Shirley A. Douglas

Physiology

38. AUTONOMIC DYSFUNCTIONS YIELD CARDIOVASCULAR INSTABILITY AND HYPERTENSION IN THE CHROMOGRANIN-A NULL MOUSE. Jiaur R. Gayen, Yusu Gu, Daniel T. O'Connor and Sushil K. Mahata.

39. OBLIGATORY ROLE OF ET_B RECEPTORS IN CATESTATIN-DEPENDENT MODULATION OF THE FRANK-STARLING RESPONSE IN THE FROG HEART. Alfonsina Gattuso, Sushil K. Mahata, Bruno Tota1 and Rosa Mazza.

40. **PRECONDITIONING AND POSTCONDITIONING THE HEART WITH CATESTATIN** Claudia Penna, Tommaso Angelone, Francesca Tullio, Francesca Moro, Maria-Giulia Perrelli, Sushil Mahata, Maria Carmela Cerra, Bruno Tota, Pasquale Pagliaro.

41. **CATESTATIN (CHROMOGRANIN A344-364) IS AN IMPORTAN MODULATOR OF MYOCARDIAL FUNCTION IN FISH.** *Sandra Imbrogno, Filippo Garofalo, Sushil K. Mahata, and Bruno Tota.*

42. **A BRIEF EXPOSURE TO STRESS INCREASES THE LEVELS OF NEUROPEPTIDE Y IN CHROMAFFIN CELLS.** Qian Wang and Matthew D. Whim.

43. **SELECTIVE REGULATION OF VMAT2 EXPRESSION IN ADRENAL CHROMAFFIN CELLS BY STRESS.** Esther L. Sabban, Andrej Tillinger, Anne Sollas, Richard Kvetnansky, and Lidia I. Serova

44. **NEURITE OUTGROWTH ON CHROMAFFIN CELLS APPLYING EXTREMELY LOW FREQUENCY MAGNETIC FIELDS BY PERMANENT MAGNETS.** Hugo Hernández-Hernández, Hugo Cruces-Solis, David Elías-Viñas and Leticia Verdugo-Díaz.