



POSTER LIST

Poster Session I - Wednesday, Sep 27th 2023 - 18:00h-20:00h

1. Understanding the role of axonal mitochondrial calcium handling in neuronal physiology. - *Anjali Amrapali Vishwanath*
2. Dynamics of axon guidance transcriptional programs during the formation of enteric nervous circuits. – *Maelys Andre*
3. Early formation of somatotopic representations in the mouse somatosensory system: embryonic setting of brain areas. - *Mar Aníbal-Martínez*
4. Transfer of ribosomes from glia to axons in the central nervous system. - *Akriti Baby Kanth*
5. Crispr-cas9-based functional investigation of the “dark genome” in search of putative downstream effectors of sox2 in neurodevelopmental disease. – *Roberta Baldi*
6. WDR47 bi-allelic variants cause a rare neurodevelopmental disorder with microcephaly and corpus callosum dysgenesis through regulation of different steps of callosal development. - *Efil Bayam*
7. Doublesex and mab-3 related transcription factor 2 regulates the connectivity of cingulate cortex neurons. - *Ana Bermejo-Santos*
8. Development and regeneration of cornea innervation. – *Elena Bizzarri*
9. Exploring the development of the gut-brain axis through the nodose ganglion projections. - *Franck Boismoreau*
10. Regulation of Cerebral Cortex Folding by Controlling Neuronal Migration and Progenitor Expansion. - *SeungHee Chun*
11. Corticospinal Tract Guidance by Netrin1: Unveiling a Novel Choice Point in the Cerebral Peduncle. – *Fouquet Coralie*
12. Postnatal connectivity of callosal projection neurons is disrupted by loss of the nmda receptor subunit glun3a. – *Oliver Crawley*
13. Neuron-derived extracellular vesicles regulate axon development in primary cortical neurons via miR-99a targeting of HS3ST2 in the axon. – *Federico Dajas-Bailador*



14. Elucidating the mechanisms of synapse diversity through endogenous proximity biotinylation. – *Dan Dascenco*
15. Ubiquitin ligase activity in axon development and disease. – *Muriel Desbois*
16. Retinal pigment epithelium communication with the developing retina: impact on neurogenesis in albinism? – *Margarita Dillinger*
17. Sexual dimorphism in the social behavior of Cntnap2 KO mice correlates with disrupted synaptic connectivity and increased microglial activity in the anterior cingulate cortex of males. - *Drescher Uwe [RESCHEDULED TO SESSION II]*
18. Development of pioneering neurites of the tract of the posterior commissure in the zebrafish embryo. – *Ruth Diez Del Corral*
19. Signaling mechanisms of the Rho GTPase Rnd3 in axon guidance and cortex development. – *Joaquim Egea Navarro*
20. Identification of a Ptf1a-derived neuronal population involved in chronic itch. – *Augusto Escalante*
21. Early contributions of ATP1A3 to axon navigation of spinal neurons via embryonic electric-field-mediated mechanisms. – *Julien Falk*
22. Endocytosis as a Key Mechanism for the Multimodal Role of Sonic Hedgehog in Axon Guidance. - *Julien Ferent*
23. Activity-dependent local protection and lateral inhibition control developmental dendrite pruning in mitral cells. – *Satoshi Fujimoto*
24. Toll-7 acts with Fra/DCC to promote commissural axon guidance across the midline. – *Sarah Gagnon*
25. RNAi screening of novel dendrite regeneration pathways using an efficient neurite injury method. – *Anindya Ghosh Roy [CANCELLED]*
26. Cross-modal reorganization of thalamocortical axons after the prenatal ablation of the auditory nucleus of the thalamus. – *Chrysoula Giasafaki*
27. Control of retinal axon wiring by second messenger signals influencing cellular adhesion. – *Claudia Gómez-Bravo*
28. Elucidating the Ndfip1-mediated Mechanisms Regulating Slit Response During Axon Guidance in the Embryonic Mammalian Spinal Cord. - *Maya Hale*



29. Dual progenitors and diverse wiring programs build central amygdala functional neuron types revealed at single cell resolution. – *Songwei He*
30. Spire proteins in extracellular vesicle (EV) communication and axon development in primary cortical neurons. – *Paula Jackson*
31. Cytoskeleton remodeling by subcellular-restricted 2nd messengers during axon guidance. – *Izeta Kankadze*

Poster Session II - Thursday, Sep 28th 2023 - 17:30h-19:30h

32. Towards a molecular understanding of the crosstalk between muscles and motoneurons and its role in neuromuscular circuit formation. – *Maëva Luxey*
33. Investigation of mitochondrial clustering in the polarization of axon growth. – *Miguel Martinez*
34. A local metabolic shift towards glycolysis fuels axonal regeneration. – *Luca Masin*
35. SOX2 regulates the gene expression program of the early postnatal visual thalamus. – *Sara Mercurio*
36. Towards a quantitative protein atlas of human iMN and their extracellular vesicles. - *Raquel Mesquita*
37. Unraveling the netrin-1 role in mouse cerebellar development. – *Ana Moreno Cerdá*
38. The role of focal adhesion kinase in axonal remodeling. - *Ana Isabel Navarro Navarro*
39. Subcellular second messenger networks drive distinct repellent-induced axon behaviors. *Xavier Nicol*
40. Retinal spontaneous activity and optic nerve myelination. – *Patricia Ordoño Carramiñana*
41. Rab5-associated transcriptome reveals a new link between endosomes and autophagy in axons. - *Francesca Pappacena*



42. Neuropathogenic mechanisms of human mutations in the gene encoding the receptor tyrosine kinase EPHB2. - *Sung Soon Park*
43. LRRTMs controls cortical migration by repulsive mechanisms. - *Claudia Peregrina*
44. Relative cellular affinity organizes the circuit for visual motion opponency. - *Filipe Pinto Teixeira*
45. Axon-driven sensitisation of DRG neurones following localised exposure to inflammatory mediators. – *Rebecca Pope*
46. The transcription factor Zic2 regulates the cytoskeleton dynamics in the axon and growth cone of embryonic retinal ganglion cells (RGC). – *Isabel Pérez Ferrer*
47. UNC-116 (KIF5C) and UNC-16(JIP3) function with the NEKL-3(NEK6/7) kinase to promote axon targeting. – *Christopher Quinn*
48. The development of corneal innervation: a 3D analysis in mice and humans. – *Rappeneau Quentin*
49. Analysis of changes in axonal mRNA transcriptomes in DRG primary neurons after PGE2-driven neuronal sensitization. – *Alex Rathbone*
50. A comprehensive toolset to understand growth cone behavior at choice points. – *Oriol Ros Torres*
51. In vivo assessment of long-distance axon growth and guidance ability in the developing mammalian central nervous system. – *Vibhu Sahni*
52. Investigating the role of Teneurin-3 and Latrophilin-2 in the development of somatotopic organisation of spinal sensory afferents. - *Kevin Sangster*
53. Organelle-associated trafficking of RNA-binding proteins in developing axons. – *Elisa Savino*
54. The role of cell adhesion in cell migration leading to stereotyped cortex folding. - *Yi-Ju Shen*
55. Commissureless acts as a substrate adapter for Nedd4 ubiquitin ligases to prevent premature response to Slit. - *Kelly Sullivan*
56. Intron Retention in neurite development and degeneration. – *Richard Taylor*
57. Unveiling the embryonic basis of neurodegeneration linked to impaired nucleocytoplasmic transport. – *Sylvia Tielens*



58. Role for Semaphorin-6A reverse signaling in radial glial cells during cortical neuron positioning. – *Eljo van Battum*
59. Semaphorin-6A reverse signaling mediates morphology and connectivity of cortical layer II/III neurons in vivo. - *Marleen van den Munkhof*
60. Thalamic neural activity is essential for triggering patterns of spontaneous activity in the developing sensory cortices. – *Dorien Vandael*
61. Nerve regeneration conduit from inverted human umbilical cord vessel in the treatment of proper palmar digital nerve sections. – *Bert Vanmierlo*
62. Primary cilia are necessary for peripheral nervous system formation. – *Elkhan Yusifov*
63. Sexual dimorphism in the social behavior of Cntnap2 KO mice correlates with disrupted synaptic connectivity and increased microglial activity in the anterior cingulate cortex of males. - *Drescher Uwe*