Friday, 20th September 2024	
17:00-19:00	Pre-Registration | *Room: Antigone 1-2*

Saturday, 21st September 2024	
07:30-09:15	Registration | *Room: Antigone 1-2*
Room	*Auditorium Pasteur*
09:25-09:40	Welcome and general announcements
09:40-10:30	**[PLN01] Single-cell and collective mechanisms for neural stem cell maintenance in the adult vertebrate brain** **Laure Bally-Cuif,** *The Institut Pasteur, Paris, France* *Chair: Stefano Stifani (Canada)*
Symposium 1: Evolutionary emergence of human-specific features of brain development *Chairs: Pierre Vanderhaeghen (Belgium) / Franck Polleux (USA)*	
10:30-10:55	**[INV1.01] Recent expansion and evolutionary selection of human-specific NOTCH2NLB allele enhancing cortical neurogenesis** **Ikuo Suzuki,** *The University of Tokyo, Japan*
10:55-11:20	**[INV1.02] Cellular crosstalk in human neurodevelopment** **Silvia Cappello,** *Biomedical Center, LMU Munich, Germany*
11:20-11:35	**[ST1.03] Group 3 medulloblastoma stem cells reside in a neurovascular niche in the developing human cerebellum** **Olivier Saulnier**, *Institut Curie, Paris, France*
11:35-12:00	**Refreshments | *Room:* *Antigone 1-2***
Room	*Auditorium Pasteur*
Symposium 1 (contd.): Evolutionary emergence of human-specific features of brain development	
12:00-12:15	**[ST1.04] Repeated binding of CREB to DNA and dual action of CBP regulate activity-dependent gene expression in human cortical neurons** **Nobuhiko Yamamoto,** *Osaka University, Japan*
12:15-12:40	**[INV1.05] Mitochondrial metabolism links neuronal developmental tempo and evolution** **Ryohei Iwata,** *KU Leuven, Belgium*
12:40-13:05 EMBO	**[INV1.06] Mechanisms of synaptic development: insights from human-specific genes** **Cécile Charrier,** *Institute of Biology of the ENS (IBENS), France*
13:05-13:30	**[INV1.07] Species-specific dynamics of progenitors and synapses in the developing neocortex** **Li Wang,** *University of California, San Francisco, USA*
13:30-14:30	**Lunch | *Room:* *Antigone 1-2***
Room	*Auditorium Pasteur*
Symposium 2: Organoid modelling of CNS development in health & in neurodevelopmental disorders *Chairs: Silvia Cappello (Germany) / Alexandre Baffet (France)*	
14:30-15:00	**INV2.01] Organoids bring new insight into human brain development and disease** **Silvia Valesco,** *Murdoch Children's Research Institute, Australia*
15:00-15:30	**[INV2.02] Two independent translocation modes drive neural stem cell dissemination into the human fetal cortex** **Alexandre Baffet,** *[1]Institut Curie/INSERM, Paris, France*
15:30-15:45	**[ST2.03] Fine-tuning of cortical connectivity through a local regulation of mitochondrial functions** **Julien Courchet,** *Institut NeuroMyoGène, Inserm, CNRS, Université Claude Bernard Lyon 1, France*
15:45-16:00	**[ST2.04] Shaping brain regional identity: FGF8-mediated gene regulation in human cerebral organoids** **Michèle Studer**, *Institute of Biology Valrose (iBV), France*
16:00-16:30	**Refreshments | *Room:* *Antigone 1-2***
Room	*Auditorium Pasteur*
Symposium 2 (contd.): Organoid modelling of CNS development in health & in neurodevelopmental disorders	
16:30-17:00	**[INV2.05] In vitro modelling of human cortical assembly in health and disease** **Fikri Birey,** *Emory University, USA*
17:00-17:30	**[INV2.06] Novel human-tissue derived brain organoid models** **Benedetta Artegiani,** *Prinses Maxima Centrum, Netherlands*
17:30-19:30	**Poster session 1 and Welcome reception | *Room:* *Antigone 1-2***

Sunday, 22nd September 2024			
Room	*Auditorium Pasteur*		
09:10-10:00	**[PLN02] Development and evolution of visual system connectivity** **Alain Chédotal,** *The Vision Institute, Paris, France* *Chair: Karine Loulier (France)*		
Symposium 3: Temporal and epigenetic control of neural development *Chairs: Bassem Hassan (France) / Carina Hanashima (Japan)*			
10:00-10:30	**[INV3.01] Developmental gene expression patterns driving species-specific cortical features** **Esther Klingler,** *VIB-KU Leuven Center for Brain & Disease, Belgium*		
10:30-11:00 EMBO	**[INV3.02] Dissecting the epigenetic regulation of cortical development in time and space** **Boyan Bonev,** *Helmholtz Center Munich, Germany*		
11:00-11:30	**Refreshments | *Room:*** *Antigone 1-2*		
Room	*Auditorium Pasteur*		
Symposium 3 (contd.): Temporal and epigenetic control of neural development			
11:30-11:45	**[ST3.03] Epigenetic regulation of hippocampus development** **Tanja Vogel,** *Albert-Ludwigs-University Freiburg, Freiburg, Germany*		
11:45-12:15	**[INV3.04] Mitotic bookmarking preserves neural stem cell fate memory** **Yan Song,** *Peking University, China*		
12:15-12:30	**[ST3.05] Unequal mitochondrial segregation during mitosis initiates asymmetric fate choices in neural stem cells progeny.** **Evelyne Fischer,** *IBENS, Paris, France*		
12:30-13:00	**[INV3.06] Temporal control of neurogenesis** **Bassem Hassan,** *ICM Paris Brain Institute, INSERM, France*		
13:00-14:00	**Lunch | *Room:*** *Antigone 1-2*		
Room	*Auditorium Pasteur*	*Room*	*Antigone 3*
Symposium 4: Cell type diversity from evo-devo perspective *Chairs: Eve Seuntjens (Belgium) / Debra Lynn Silver (USA)*		**Symposium 5: Development of the somatosensoy system** *Chairs: Eric Bellefroid (Belgium) / Alexandre Pattyn (France)*	
14:00-14:25	**[INV4.01] Tracking the deep evolutionary origins of neurons** **Pawel Burkhardt,** *University of Bergen, Norway*	14:00-14:30	**[INV5.01] Neurotrophin signalling in peptidergic sensory neuron development** **Fernanda Ledda,** *Fundación Instituto Leloir, IIBBA-CONICET, Argentina*
14:25-14:50	**[INV4.02] Neural stem cells lineages generate cellular diversity and underpin behaviour** **Sonia Sen,** *Tata Institute for Genetics and Society, India*	14:30-14:45	**[ST5.02] tRNAs dynamism in the developing somatosensory cortex** **Elena Brivio,** *Institut de Génétique et de Biologie Moléculaire et Cellulaire, CNRS, France*
14:50-15:05	**[ST4.03] Evolutionary dynamics of cellular and gene regulatory programs in the developing mammalian cerebellum** **Mari Sepp,** *ZMBH, Heidelberg University, Germany*	14:45-15:15	**[INV5.03] The temporal refinement of Dach1 is a key event in the development of primary somatosensory neurons** **Simon Desiderio**, *Université Libre de Bruxelles, Belgium*
15:05-15:30	**[INV4.04] Building bilaterian brains: Reconstructing ancient coregulons, cell types and tissues** **Detlev Arendt,** *EMBL, Germany*	15:15-15:30	**[ST5.04] Towards a molecular understanding of motor neuron-muscle match-making** **Fabio Sacher,** *University of Basel, Switzerland*
15:30-16:00	**Refreshments | *Room:*** *Antigone 1-2*		
Room	*Auditorium Pasteur*	*Room*	*Antigone 3*
Symposium 4 (contd.): Cell type diversity from evo-devo perspective		**Symposium 5 (contd.): Development of the somatosensoy system**	
16:00-16:25	**[INV4.05] Daily remodelling of adult neuronal networks in *Drosophila*** **M. Fernanda Ceriani,** *CONICET / Leloir Institute, Argentina*	16:00-16:30	**[INV5.05] Leveraging single-soma deep RNA sequencing in human dorsal root ganglion neurons to explore the mechanisms of Somatosensation** **Wenqin Luo**, *University of Pennsylvania, USA*
16:25-16:40	**[ST4.06] Specification of sensory input neurons in the chick entopallium is regulated by thalamic activity-dependent mechanisms** **Ryoka Katayama**, *Waseda University, Japan*	16:30-17:00	**[INV5.06] Deciphering the multidimensional roles of glia in sculpting the nervous system** **Husniye Kantarci,** *University of Texas at Austin, USA*
16:40-17:05	**[INV4.07] Generating cell type diversity in the common octopus brain** **Eve Seuntjens,** *KU Leuven, Belgium*		
17:05-19:00	**Poster session 2 with drinks | *Room:*** *Antigone 1-2*		

Monday, 23rd September 2024			
Room	*Auditorium Pasteur*		
08:40-09:30	**[PLN03] Advancing neurodevelopmental research: developing human brain organoid models to investigate brain malformations** **Orly Reiner,** *Weizmann Institute of Science, Israel* *Chair: Shubha Tole (India)*		
Room	*Auditorium Pasteur*	*Room*	*Antigone 3*
Symposium 6: How glial cells shape the brain *Chairs: Sonia Garel (France) / Shubha Tole (India)*		**Symposium 7: Development of cerebellum and cerebellar circuitry in neurodevelopmental disorders** *Chairs: Vatsala Thirumalai (India) / Fabrice Ango (France)*	
09:30-10:00	**[INV6.01] Neuro-glia crosstalk shapes brain morphogenesis** **Laurent Ngyuen,** *University of Liege, Belgium*	09:30-10:00	**[INV7.01] The sculpting of cerebellar output via synapse elimination during development** **Vatsala Thirumalai,** *NCBS, Tata Institute of Fundamental Research, India*
10:00-10:15	**[ST6.02] Distinct embryonic origins contribute to astrocyte diversity in the mouse neocortex.** **Laura Dumas,** *Institut for Neurosciences of Montpellier, University of Montpellier, INSERM, France*	10:00-10:30	**[INV7.02] Altered development in a late-onset form of ataxia** **Alanna Watt,** *McGill University, Canada*
10:15-10:30	**[ST6.03] Dynamic local mRNA localization and translation occurs during the postnatal molecular maturation of perivascular astrocytic processes** **Katia Avila Gutierrez,** CIRB, *Collège de France, CNRS, INSERM, Université PSL, France*		
10:30-11:00	**Refreshments | *Room:*** *Antigone 1-2*		
Room	*Auditorium Pasteur*	*Room*	*Antigone 3*
Symposium 6 (contd.): How glial cells shape the brain		**Symposium 7 (contd.): Development of cerebellum and cerebellar circuitry in neurodevelopmental disorders**	
11:00-11:30	**[INV6.04] In the belly of the microglia: towards a dynamic quantitative understanding of how microglia phagocytose and digest neurons** **Francesca Peri,** *University of Zurich, Switzerland*	11:00-11:15	**[ST7.03] Identification of novel genes and pathways essential for neural development** **Alana Amelan,** *The Hebrew University of Jerusalem, Israel*
11:30-12:00	**[INV6.05] Microglia diversity: are there specialized sub-classes of microglia?** **Hiyaa Ghosh,** *Tata Institute of Fundamental Research, India*	11:15-11:45	**[INV7.04] A single cell atlas to unveil the diversity of mouse cerebellar astrocytes: insights into their molecular identities, development, and functions** **Ludovic Telley,** *Université de Lausanne, Switzerland*
		11:45-12:00	**[ST7.05] A Role of the NDD-associated gene *Arid1b* in mouse Purkinje cell development and cerebellum function** **Yang Zhou,** *McGill University, Canada*
12:00-12:30	**[INV6.06]** **Microglia in early brain wiring: from circuit wiring to structural integrity** **Sonia Garel,** *Institute of Biology of the École normale supérieure, France*	12:00-12:30	**[INV7.06] Golgi Cell inhibitory synapse development is regulated by Cadherin-13** **Fabrice Ango,** *Institut des Neurosciences de Montpellier, INSERM, France*
Room	*Auditorium Pasteur*		
12:30-13:00	**ISDN Business Meeting**		
12:30-13:30	**Boxed Lunch | *Room:*** *Antigone 1-2*		
13:30-18:00	**Free Time**		
18:15-23:55	**Gala Dinner and poster awards| Coaches depart from Le Corum, Level 0 at 18:20**		

Tuesday, 24th September 2024			
Room	*Auditorium Pasteur*		
08:30-09:20	**[PLN04] Developmental mechanisms shaping cortical interhemispheric connectivity and function** **Linda Richards,** *WUSTL, USA* *Chair : Fiona Francis (France)*		
Room	*Auditorium Pasteur*	*Room*	*Antigone 3*
Symposium 8: Forces and mechanosensation in the development of the nervous system *Chairs: Kristian Franze (UK) / Victor Borrell (Spain)*		**Symposium 9: Glial pathophysiology and plasticity in neurodevelopment** *Chairs: Baptiste Lacoste (Canada) / Karine Loulier (France)*	
09:20-09:50	**[INV8.01] Pushing and pulling in the developing brain wall** **Takaki Miyata,** *Nagoya University, Japan*	09:20-09:50	**[INV9.01] Cellular and molecular mechanisms of astrocyte-interneuron communication in health and disease** **Dolores Irala,** *St Jude Children's Research Hospital, USA*
09:50-10:05	**[ST8.02] Perivascular neurons instruct three-dimensional vascular lattice formation via Piezo2-mediated contact** **Kenichi Toma,** [1]*Kyoto University, Japan*	09:50-10:05	**[ST9.02] Mitigating reactive gliosis through the ablation of a chromatin modifier in astrocytes.** **Platon Megagiannis,** [1]*McGill University, Canada*
10:05-10:35	**[INV8.03] Forces at play: deciphering the role of Piezo1 in neural development** **Medha Pathak,** *University of California, Irvine, USA*	10:05-10:35	**[INV9.03] Role of astrocytes in cerebrovascular maturation** **Baptiste Lacoste,** *University of Ottowa, Canada*
10:35-11:00	**Refreshments | *Room:* Antigone 1-2**		
Room	*Auditorium Pasteur*	*Room*	*Antigone 3*
Symposium 8 (contd.): Forces and mechanosensation in the development of the nervous system		**Symposium 9 (contd.): Glial pathophysiology and plasticity in neurodevelopment**	
11:00-11:30	**[INV8.04] Generation and sensing of forces during axon guidance and neuronal migration** **Naoyuki Inagaki,** *Nara Institute of Science and Technology, Ikoma, Japan*	11:00-11:15	**[ST9.04] ER stress underlies aberrant NSC fate decisions that cause malformations of cortical development** **Lisa Julian,** *Simon Fraser University, Canada*
11:30-11:45	**[ST8.05] Mechanotransduction regulation of interneuron migration during cortical development** **Míriam Javier Torrent,** *GIGA institute, University of Liège, Belgium*	11:15-11:45	**[INV9.05] Alteration of tonic inhibition in neurodevelopmental disorder** **Bo-Eun Yoon,** *Dankook University, Republic of Korea*
11:45-12:00	**[ST8.06] Axon guidance during CNS regeneration is required for specific brain innervation** **Julia Schaeffer,** *Univ. Grenoble Alpes, Inserm, U1216, France*	11:45-12:00	**[ST9.06] Maternal microbiome disruption is impacting early-life brain barriers: insights from caesarean section mouse offspring** **Valentine Turpin,** *APC Microbiome Ireland, , Department of Anatomy and Neuroscience, Ireland*
12:00-12:30	**[INV8.07] The mechanical regulation of neuronal development** **Kristian Franze,** *University of Cambridge, United Kingdom. Friedrich-Alexander University Erlangen-Nuremberg, Germany*	12:00-12:30	**[INV9.07] Oligodendroglia heterogeneity in response to DNA damage: impact on neurodevelopment and adult brain functions** **Enrica Boda,** *University of Turin, Italy*
12:30-13:30	**Lunch | *Room:* Antigone 1-2**		
Room	*Auditorium Pasteur*		
Symposium 10: Regulation of inhibitory neuron development *Chairs: Goichi Miyoshi (Japan) / Fiona Francis (France)*			
13:30-14:00	**[INV10.01] Cortical inhibitory neurons exhibit cell-type specific maturation programme** **Lynette Lim,** *Leuven Brain Institute, KU Leuven, Belgium*		
14:00-14:15	**[ST10.02] Olfactory bulb anomalies in KBG syndrome mouse model and patients** **Kara Goodkey,** *University of Alberta, Canada*		
14:15-14:30	**[ST10.03] Pregnancy-responsive pools of adult neural stem cells for transient neurogenesis in mothers** **Zayna Chaker**, *Institute of Functional Genomics of Lyon, CNRS, ENS, France*		
14:30-15:00	**[INV10.04] Role of RAS/MAPK hyperactivity during cortical GABAergic interneuron development** **Daniel Vogt,** *Michigan State University, USA*		
15:00-15:30	**[INV10.05] Transcriptional regulation of cortical interneuron development** **Nicoletta Kessaris,** *Wolfson Institute of Biomedical Research, UCL, United Kingdom*		
15:30-16:00	**[INV10.06] An early postnatal critical period for the development of inhibitory neurons in social circuit regulation** **Goichi Miyoshi,** *Gunma University Graduate School of Medicine, Japan*		
16:00-16:15	**Closing remarks**		