

**Neurodevelopmental Disorders:
From molecular mechanisms to social inclusion**
7TH BORDEAUX NEUROCAMPUS CONFERENCE - 18-20 MAY 2022

TUESDAY, MAY 17TH

18:00 - 19:30 Conference for a wide audience (*Librairie Mollat – Station Ausone*)
With Catherine Barthélémy and Manuel Bouvard

WEDNESDAY, MAY 18TH

8:30 - 9:00 Registration and welcome coffee

9:00 - 9:10 Welcoming speech - **Nathalie SANS**, Vice-présidente recherche

SESSION 1 GENETIC & EPIGENETICS OF NDDS CHAIR: SOPHIE LAYÉ, MANUEL BOUVARD

9:10 - 9:55 Keynote speaker - **Thomas BOURGERON** (Institut Pasteur, Paris, France)
Phenotypic effects of genetic variants associated with autism beyond diagnosis

9:55 - 10:25 **Marianne VAN DEN BREE** (Psychological Medicine and Clinical Neurosciences, Cardiff, UK)
Genetic conditions with high risk of neurodevelopmental disorder

10:25 - 10:55 Coffee break / booths / posters

10:55 - 11:25 **Jonathan VANRYZIN** (Univ. Maryland, USA)
Glia as sculptors of sex differences in the social brain

11:25 - 12:10 Keynote speaker - **John F. CRYAN** (University College Cork, Dept. of Anatomy & Neuroscience, Cork, Ireland)
Microbiome as a key regulator of Neurodevelopment & Behaviour

12:10 - 13:40 Lunch break / booths / posters

SESSION 2 MODELS OF NDDS CHAIR: SUSANNA PIETROPAOLO, JEAN-RENE CAZALETS

13:40 - 14:10 **Susanna PIETROPAOLO** (CNRS, Bordeaux Neurocampus, France)
Novel therapeutic strategies for neurodevelopmental disorders: lessons from behavioural studies on genetic mouse models

14:10 - 14:40 **Jean-Claude LACAÏLLE** (Département de neurosciences, Univ Montréal, Montréal, Canada)
Neurodevelopmental disorders: Troubled translation in inhibitory interneurons

14:40 - 15:10 **Deepak SRIVASTAVA** (King's College London, UK)
Human cellular models of neurodevelopment and psychiatric disorders

15:10 - 15:35 Coffee break / booths / posters

15:35 - 16:05 **Peter KIND** (Center for Discovery Neurosciences, Edinburgh, UK) - *remotely*
Cellular and circuit alterations in rodent models of ASD/ID

SESSION 3 SEX/GENDER AND NDDS CHAIR: ANOUC K AMESTOY

16:05 - 16:50 Keynote speaker - **Meng Chuan LAI** (University of Toronto, Canada) - *remotely*
Why we must consider sex and gender factors to understand autism and support autistic individuals

16:50 - 17:20 **William MANDY** (UCL, UK)

Time to lose the mask? Understanding the nature, consequences and costs of camouflaging by autistic people.

From 17:20 Wine and cheese / booths / posters

THURSDAY, MAY 19TH

8:45 - 9:15 Welcome coffee

SESSION 4 **DEVELOPMENTAL AND MOLECULAR BASIS OF NDDS** CHAIR: MIREILLE MONTCOUQUIOL, MOHAMMED JABER

9:15 - 9:45 **Gaia NOVARINO** (Institute of Science and Technology Austria (ISTA), Austria)
Studying cortical development through the lens of human disorders

9:45 - 10:15 **Mathias GROSZER** (Inserm, Sorbonne Université, Institut du Fer à Moulin, Paris, France)
Approaching human neurodevelopment through studying of rare mutations

10:15 - 10:45 **Mohamed JABER** (Inserm, Université de Poitiers, France)
Motor and gait disorders in autism as a biological and early diagnostic criterion: proof of concept in animal models

10:45 - 11:15 Coffee break / booths / posters

11:15 - 11:45 **Sonia GAREL** (ENS, Paris, France)
The many roles of microglia in brain wiring: a developmental perspective

11:45 - 12:15 **Denis JABAUBON** (Department of Fundamental Neurosciences, UNGE, Genève, Switzerland)
Temporal controls over developmental cortical neuron diversity

12:15 - 14:00 Lunch break / booths / posters

KEYNOTE

14:00 - 14:45 Keynote speaker - **Guoping FENG** (MIT Harvard, USA) - *remotely*
Dissecting neurobiological mechanisms of ASD: from genes to circuits

SESSION 5 **BIOMARKERS OF NDDS** CHAIR: NATHALIE SANS, LAURENT GROC

14:45 - 15:15 **Laurent GROC** (CNRS, Bordeaux Neurocampus, France)
Receptor dynamics and interaction during neuronal network maturation

15:15 - 15:45 **Xavier ALTAF AJ** (University of Barcelona, Spain)
Comprehensive delineation and precision medicine of GRIN-related neurodevelopmental disorders, a primary disturbance of the NMDA receptor

15:45 - 16:15 **Sophie LAYÉ** (Inrae, Bordeaux Neurocampus, France)
Early-life deficiency in polyunsaturated fatty acids, a risk factor for neurodevelopmental disorders

16:15 - 16:45 Coffee break / booths / posters

KEYNOTE

16:45 - 17:30 Keynote speaker – **Pierre GRESENS** (Inserm, Hôpital Robert Debré, Paris, France)
Roles of microglia in NDDS

20:00 - 23:00 **Gala dinner** (*Château Luchey-Halde*)

FRIDAY, MAY 20TH

8:30 - 9:00 Welcome coffee

SESSION 6 **BIOMARKERS OF NDDS** CHAIR: CATHERINE BARTHELEMY, PAUL OLIVIER

9:00 - 9:30 **Jean-Christophe DELPECH** (Inrae, Bordeaux Neurocampus, France)
Role of microglia in the deleterious effects of gestational inflammation on brain functioning

9:30 - 10:00 **Frédérique BONNET-BRILHAUT** (Inserm, Université de Tours, France)
From early synchronization to social cognition: developmental trajectories in Autism

10:00 - 10:30 **Andreas FRICK** (Inserm, Bordeaux Neurocampus, France)
Mechanisms of atypical sensory information processing within the somatosensory cortex in an autism mouse model

10:30 - 11:00 Coffee break / booths / posters

11:00 - 11:30 **Laurence VAIVRE-DOURET** (Inserm, Hôpital Universitaire Necker-Enfants Malades, Paris, France)
Multidimensional contribution of assessment for the identification of neurodevelopmental markers: Developmental Coordination Disorder (DCD)

PRESENTATION **GIS AUTISME ET TND**

11:30 - 12:00 **Catherine BARTHELEMY** (Inserm, Université de Tours), **Paul OLIVIER** (Inserm, GIS Autisme et TND)
Boosting network research for the benefit of people with neurodevelopmental disorders and their families : European perspectives.

12:00 - 13:30 Lunch break / booths / posters

SESSION 7 **NOUVELLES TECHNOLOGIES (IN FRENCH)** CHAIR: ANOUCK AMESTOY, MANUEL BOUVARD

13:30 - 14:00 **Eric LEMONNIER** (CHU Limoges, France)
TSA : un dépistage dès les premiers jours de vie est-il envisageable ?

14:00 - 14:30 **Cécile MAZON** (University of Bordeaux, France)
Technologies numériques pour la scolarisation des enfants avec TSA

14:30 - 15:00 **Anouck AMESTOY** (CH Charles Perrens, INCIA, Bordeaux Neurocampus, France)
Profils attentionnels, socio-émotionnels et moteurs : l'intérêt des regards croisés dans la recherche sur les TND.

15:00 - 15:30 Coffee break / booths / posters

ROUND TABLE (IN FRENCH) CHAIR: SOPHIE LAYÉ, MANUEL BOUVARD

15:30 - 17:00 **Autisme, TDAH, DYS : expérience et attentes des usagers partenaires de la recherche**
Avec les associations
Autisme France/URAFa, HyperSupers TDAH France, Asperansa, Fédération Française des DYS

17:00 - 17:15 Closing remarks