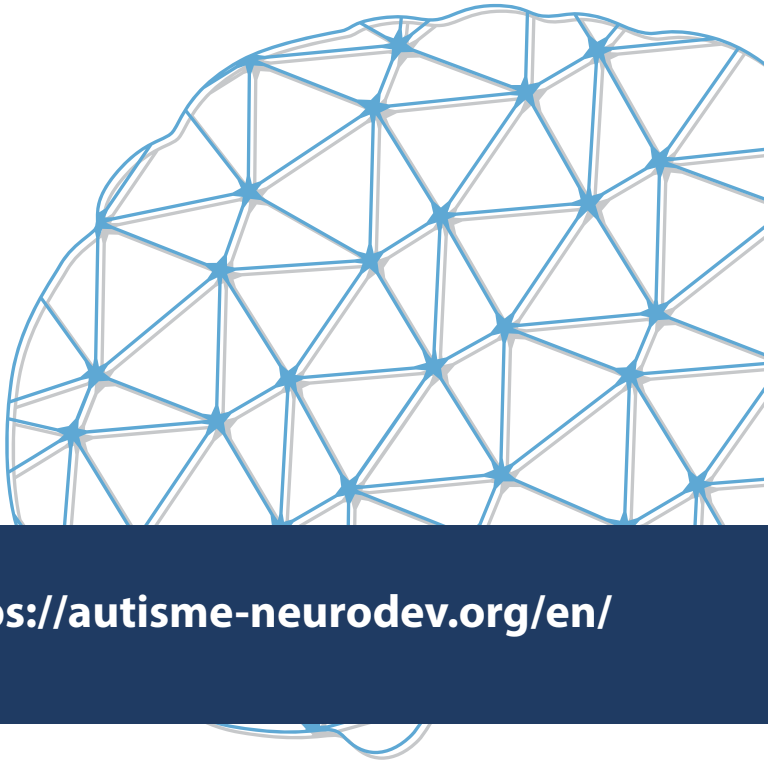
AUTISME & TROUBLES DU NEURO-DÉVELOPPEMENT
GIS

Inserm cnrs cea INRAE

MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR
ET DE LA RECHERCHE
Liberté
Égalité
Fraternité

Stratégie nationale
pour l'autisme au sein
des troubles du neuro-développement

# Boosting network **research** for the benefit **of people with Neurodevelopmental Disorders and their families**



**https://autisme-neurodev.org/en/**

The primary objective of the French National Strategy for Autism in Neurodevelopmental Disorders (NDDs) is to 'place science at the centre of public policy by cultivating French research excellence'.

It was within this context that the Autism and NDD Scientific Interest Group (Autism and NDD GIS) was created in 2019. The orientations of this group are validated by an institutional committee composed of the CNRS, CEA, INRAE and the managing body Inserm.

This research network aims to enhance knowledge of neurodevelopment and its associated disorders (autism, ADHD, intellectual developmental disorders, DYS disorders, etc.) across all the disciplinary fields.

## MISSIONS

- Developing and update a **scientific strategy** (strategic research agenda) for all research agencies and operators
- Developing **participatory research**
- Promoting the **transfer of technologies** for early prevention and lifelong interventions
- Supporting the involvement of **young scientists in NDD translational research**
- Facilitating **scientific collaborations** and **preparing** teams to **respond to calls for proposals**
- Promoting **interactions with European and international players**
- Increasing the **visibility of scientific actions** implemented by the community (researchers, non-profit organizations, caregivers, people with NDDs, etc.)

## FOR MORE INFORMATION

**Join us:**

- Visit our website: https://autisme-neurodev.org/en/



## TEAM

Director: **Catherine Barthélémy,** child psychiatrist and physiologist (University of Tours)

Deputy Director: **Pierre Gressens,** paediatric neurologist and neuroscientist (Robert Debré Hospital, Paris)

Project manager: **Paul Olivier**
paul.olivier@aviesan.fr

## INTERNATIONAL SCIENTIFIC ADVISORY BOARD

The Autism and NDD GIS benefits from the recommendations of a high-level international scientific advisory board covering the Autism and NDD GIS fields of expertise:

**Marc Abramowicz** (University of Geneva, Switzerland) – Genetics – IDs

**Evdokia Anagnostou** (University of Toronto, Canada) – Translational Research, Databases

**Peter Bearman** (University of Columbia, USA) – Sociology

**Cornelius Gross** (EMBL, Italy) – Cellular and molecular biology

Chair: **Éric Courchesne** (UCSD, USA) – Neurosciences, Imaging

**Renzo Guerrini** (University of Florence, Italy) – Psychiatry

**Amanda Kirby** (University of South Wales, UK) – Learning disorders

**Eva Loth** (King's College, UK) – Psychology

**Jeannette Schaeffer** (University of Amsterdam, Netherlands) – Linguistics

**Kristiina Tammimies** (Karolinska Institute, Sweden) – Genetics – ASD – ADHD – Dys disorders

**AUTISM AND NEURODEVELOPMENTAL DISORDERS IN FIGURES:**

IN FRANCE:
700,000 people with Autism Spectrum Disorders

Among the
35,000 annual births affected by NeuroDevelopmental Disorders (NDDs), 7,500 with autism

INTERNATIONAL PREVALENCE on the increase:
5% for NDDs
1% for ASD



## CROSS-DISCIPLINARY RESEARCH NETWORK

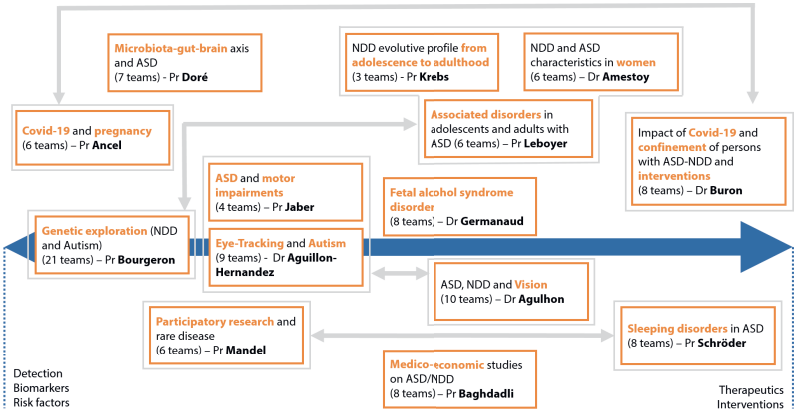
The Autism and NDD GIS constitutes an unprecedented effort to structure network research, promoting scientific collaborations to benefit people with NDDs and their families.

### International multidisciplinary consortium

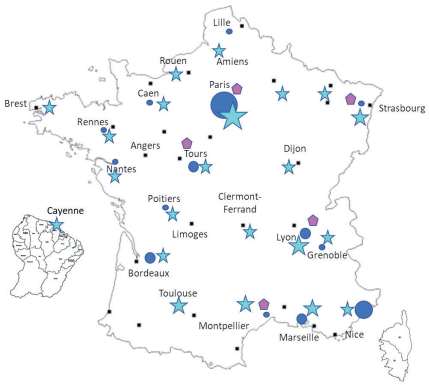
**+130**
**accredited French teams**

**650**
**researchers and clinicians**

**+400**
**international partner teams**




**Network of the 14 collaborative initiatives supported by the GIS**

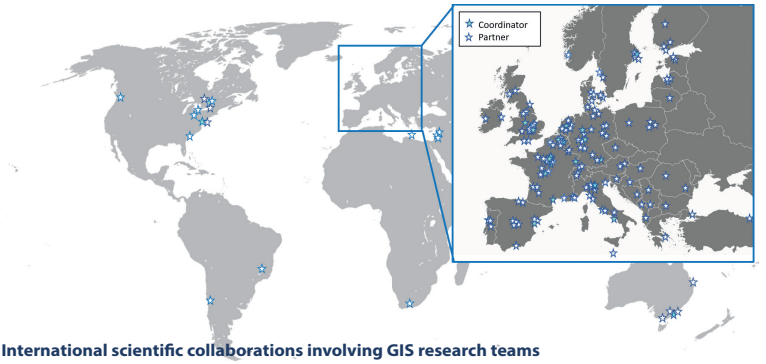



**GIS member teams and national centres of excellence**

**Updated on June 23, 2023**

The GIS network promotes the emergence of new scientific synergies on NDDs, resulting in increased visibility and research project funding:

- **French national research agency (ANR): 208% more** funding between 2017 and 2022
- **ERA-NET NEURON:** France - leader in the number of coordinated European projects funded (2021 call for proposals: theme NDDs)
- **French scientific publications** on NDDs: annual production up 40% since 2017




**International scientific collaborations involving GIS research teams**

## PARTICIPATORY RESEARCH

The objective of the GIS is to strengthen collaborations between individuals with NDDs, their families, practitioners and researchers.

A significant focus is placed on stimulating participatory research, which plays a key role in aligning science with the priority needs of people with NDDs.

**The Thinking Group of non-profit organizations for Science (GRAPS) brings families and professionals together in co-constructing actions to promote research on cross-cutting NDD issues.**

**Missions of the GRAPS:**

- Boosting participatory research on NDDs within the framework of international recommended practices
- Updating research priorities related to everyday problems
- Developing collaborations with the scientific community in order to operationalise international research through annual scientific events.

**This work shows the need to develop research to include and benefit adults with NDDs, including those in the most 'complex' situations.**



## TRANSFER FOR PREVENTION AND LIFELONG INTERVENTIONS

It is crucial to intensify the transfer of NDD research findings to both French and European industries, especially in the areas of prevention and non-invasive lifelong interventions.

The work conducted by the GIS underlines the necessity of establishing an unprecedented framework that fosters collaboration among the various stakeholders involved in transfer and innovation for NDDs (researchers, caregivers, non-profit organizations, industry, start-ups, etc.).

- Organization of Workshops for International Innovation in Neurodevelopment research.

Objective : supporting the development of an industrial sector dedicated to the disability and functional disorders associated with NDDs.

## SUPPORT FOR YOUNG RESEARCHERS

The establishment of an international translational research network represents an opportunity to train the future researchers and clinicians.

The **GIS Young Researcher Club** works to open the doors of international translational research by:

- Holding international seminars for translational research in NDDs
- Jointly holding the ARAPI Autumn Universities
- Organizing dedicated actions within international meetings and conferences

arapi

Driven by the French National Strategy for Autism in Neurodevelopmental Disorders (NDDs), whose first commitment was to 'place science at the centre of public policy', the **Autism and Neurodevelopmental Disorders Scientific Interest Group** (Autism and NDD GIS) was created and placed under the supervision of an institutional committee composed of the CNRS, CEA, INRAE and the managing body Inserm.

Its unprecedented efforts since 2019 to federate NDD research forces have led to the emergence of science-based innovative practices **serving people with NDDs and their families**.

**For more information:**
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