

PERSONAL INFORMATION

ADRIANO CHIO' - Researcher unique identifier (ORCID): [0000-0001-9579-5341](https://orcid.org/0000-0001-9579-5341)

Date of birth: August 30, 1957 Nationality: Italian

URL for web site: www.neuroscienze.unito.it/do/home.pl

EDUCATION AND TRAINING

- 1988-1990 Clinical Neurophysiology Residency -School of Medicine and Surgery, University of Pavia, Italy
- 1982-1986 Neurology Residency – School of Medicine and Surgery, University of Turin, Italy
- 1976-1982 MD - School of Medicine and Surgery, University of Turin, Italy

CURRENT POSITIONS

- 2019-current Medical Director, Neurology 1 Division, 'Città della Salute e della Scienza' University Hospital, Torino, Italy
- 2016-current Full Professor of Neurology, 'Rita Levi Montalcini' Department of Neuroscience, University of Turin, Italy
- 2014-current Research Associate, Institute of Cognitive Sciences and Technologies, Consiglio Nazionale delle Ricerche (CNR), Rome, Italy
- 1990-current Academic and Clinical Director, ALS Regional Expert (Reference) Center (Piedmont Region, Italy)

PREVIOUS POSITIONS

- 2005-2016 Associate Professor of Neurology, 'Rita Levi Montalcini' Department of Neuroscience, University of Torino, Italy
- 1988-2005 Consultant Neurologist, San Giovanni Hospital, Torino, Italy
- 2006-2019 Consultant Neurologist, 'Città della Salute e della Scienza' University Hospital, Torino, Italy

FELLOWSHIPS AND AWARDS

- 2015 Sheila Essay Award, American Academy of Neurology and American ALS Association, USA
- 2016 Elected Fellow of the Academy of Science of Bologna, Italy
- 2014 Elected Fellow of the Turin Academy of Medicine, Italy
- 2011 Elected Fellow of the American Academy of Neurology (FAAN), USA

INSTITUTIONAL RESPONSIBILITIES

- 2017-current Chair, Scientific Board, 'Ferdinando Rossi' School of Advanced Studies, University of Turin, Italy (<https://ssst.campusnet.unito.it/do/home.pl>)
- 2015-current Member of the Board, Department of Neuroscience, University of Turin, Italy
- 2015-current Member of the Board of the School of Medicine, University of Turin, Italy
- 2003-2010 Member of the Faculty, Faculty of Medicine, University of Turin, Italy
- 2003-2009 Member of the Planning and Development Committee, Faculty of Medicine, University of Turin, Italy

COMMISSION OF TRUSTS/REVIEWING ACTIVITIES

I am a member of the ALS/MND Alliance Scientific Advisory Council (<https://www.alsmndalliance.org/>), of the Scientific Advisory Board of the Thierry Latran Foundation (<http://www.fondation-thierry-latran.org/>), and of the Scientific Committee of the Italian ALS Association (AISLA) (<http://www.aisla.it/>).

I am reviewer of more than **70 international neuroscience and genetic journals** and of several international **public and private foundations** (Princes Beatrix Fonds, Amsterdam, Netherlands; The Wellcome Trust, London, UK; Motor Neuron Disease Association (MND), London, UK; Barts and the London Charity, London, UK; National Institutes of Health (NIH), Bethesda, USA; Irish Institute of Clinical Neurosciences

(IICN); Agence Nationale de la Recherche (ANR), Paris, France; European Research Council (ERC); Stichting ALS Nederland, Amsterdam, NL; MND Association, UK).

I am a member of the Editorial Board of the following peer-reviewed journals: 'Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration' and 'Neurological Sciences'.

MEMBERSHIPS OF SCIENTIFIC SOCIETIES/ACADEMIES

2007 Founding member of the *Italian ALS Genetic* (ITALSGEN) consortium

1998 Founding member of the *European Network for the Cure of ALS* (ENCALS)

1998 Associazione Italiana di Neuroepidemiologia (Italian Association of Neuroepidemiology)

1998 American Academy of Neurology

1995 Founding Member of the Italian MND research group

1990 Società Italiana di Neurologia

LEADERSHIP AND RESEARCH CONSORTIA

- Senior member of a number of international expert advisory panels and research groups relating to clinical phenotyping, genotyping, clinical trial design, and patients' stratification of ALS.
- Senior member of international committees charged with the development of revised diagnostic criteria for ALS and ALS clinical trials.
- Advisor for the establishment of population-based disease registries for ALS in USA and Germany.
- Founder member of EURALS (European ALS Epidemiology Consortium), ENCALs (European Network for the Cure of ALS, www.ENCALS.eu), NETCALs (Community-led Working Group for population-based cohorts of ALS patients, <http://www.neurodegenerationresearch.eu/initiatives/jpnd-alignment-actions/longitudinal-cohorts/call-for-working-groups/call-results/>) and TRICALs (Treatment Research Initiative to Cure ALS, <https://www.tricals.org/>)
- Founder and former chair (1998-2004) of the MND research group of the Italian Neurological Society.
- Founder member and currently chair (2008-present) of the Italian ALS Genetic Consortium.
- Former chair of the Italian Neuroepidemiology Association (NEP) (2005-2011).

LEADERSHIP AND RESEARCH CONSORTIA – MAJOR COLLABORATIONS

European Network for the Cure of ALS Consortium (www.ENCALS.eu); JPND Consortia (SOPHIA, ALS-CarE, STRENGTH, BRAIN-MEND); Project MinE Consortium (<https://www.projectmine.com/>); King's College, London UK (A. Al-Chalabi); University of Utrecht, Netherland (L. Van den Berg, J. Veldink); University of Massachusetts, Boston, USA (R.H. Brown, J. Landers); Trinity College, Dublin, Ireland (O. Hardiman); University of Ulm, Germany (A. Ludolph); National Institutes of Aging, National Institute of Health, Bethesda, USA (B. J. Traynor; M. Nalls; A. Singleton; S. Scholz); University of Umea, Sweden (P. Andersen); University of Oxford, UK (M. Turner), University of Leuven, Belgium (P. van Damme, W. Robberecht), Karolinska Institute, Stockholm, Sweden (C. Ingre).

MAJOR INTERNATIONAL AND NATIONAL FUNDING

My group has been granted by the European Commission two projects (EUROMOTOR and NEURINOX) within the Seventh Framework Programme (FP7) and one project (BRAINTEASER) within the Horizon 2020 programme.

I have received four grants from the The EU Joint Programme – Neurodegenerative Disease Research (JPND) (SOPHIA, ALS-CarE, STRENGTH, BRAIN-MEND projects) (<https://www.neurodegenerationresearch.eu/>).

My group has received four grants from the Italian Ministry of University and Research (Progetti di Rilevante Interesse Nazionale) and eight grants from the Italian Ministry of Health (Ricerca sanitaria Finalizzata).

SCIENTIFIC EXPERIENCE

My main research objective is to understand the biology of age-related neurodegenerative disease in humans, and to contribute to the development of new and more effective treatments for Amyotrophic Lateral Sclerosis (ALS). My team identified several **ALS-related genes**, including *C9orf72*, the most common gene related to ALS and FTD, *VCP*, *Matr3* and *KIF5A*.

My team was the first to show that genetics of ALS differs in different population with a population-based approach (*Neurology*, 2012; *Neurobiol Aging*, 2014). In 1994, I set up a **population-based ALS Registry** that has ascertained all cases of ALS in Piemonte over 25 years (*JAMA Neurology*, 2017), now including extensive data from over 3,300 patients and linked to a **DNA bank** of over 1,300 cases and 1,300 matched controls with genome wide associated data (GWAS and WGS) from both patients and controls. My team has conclusively shown that ALS/MND is heterogeneous and closely related to frontotemporal dementia (*J Neurol Neurosurg Psychiatry*, 2011).

My current work focuses on building new strategies **to untangle the complexity of amyotrophic lateral sclerosis - frontotemporal dementia** using modern genetic, imaging, and machine learning approaches, the development of novel biomarkers and the discovery of more effective drugs to improve symptoms and slow disease progression.

BIBLIOMETRIC DATA

Full text papers in peer-reviewed journals: 397

H-index: 74 (Scopus), 85 (google Scholar)

Total number of citations: 21,775 (Scopus), 19,895 (Google Scholar)

Average Impact Factor (in the last 5 years): 8.12