

MATTEO FLORIS - CURRICULUM VITAE

Date of Birth: 12/02/1977

Nationality: Italian

CONTACTS

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WORK EXPERIENCE

Associate Professor in Medical Genetics, Department of Medical Sciences and Public Health, University of Cagliari Italy, 01/03/2016 – Current

Associate Professor in Medical Genetics, Department of Biomedical Sciences, University of Sassari, Sassari, Italy, 29/12/2019 – 28/02/2026

Teaching activity at the University of Sassari:

- Genetics (1st Year of the Degree Course in Medicine and Surgery)
- Bioinformatics (1st Year of the Degree Course in Medicine and Surgery)
- Computational Genomics (1st Year of the Master's Degree Course in Biology)
- Bioinformatics (1st Year of the Bachelor's Degree Course in Biomedical Laboratory Technicians)
- Medical Genetics (1st Year of the Master's Degree Course in Food Science, Health and Human Well-being)
- Principles of Programming with R for Biostatistics, PhD School

Assistant Professor in Medical Genetica, Department of Biomedical Sciences, University of Sassari, Sassari, Italy, 30/12/2016 - 30/12/2019

Bioinformatics Researcher, CRS4 Pula (CA), Italy, 02/2006 - 09/2016

Research activities: (a) creation of algorithms for genomic analysis of alternative splicing in public genomic databases; (b) bioinformatic analysis of mutations in autoimmune diseases and immunodeficiencies, and of polymorphisms in genome-wide association studies through both computational genomics methods and molecular modeling techniques; (c) positive selection studies on the entire genome of the Sardinian population.

Research Fellow, CNR (National Research Council of Italy) Monserrato (CA), Italy, 12/2015 - 12/2016

Researcher at IRGB-CNR in Monserrato (CA) for "biostatistical analysis and genomic selection studies of ProgeNIA/SardiNIA samples".

Scientific Consultant, Mario Negri Institute Milan, Italy, 02/2012 - 05/2012

Activities: Chemoinformatics consultant for the development and implementation of in silico computational toxicology models.

Web Developer

2000 - 2004

EDUCATION AND TRAINING

- **Master in Biostatistics for Medical Research University of Padova**
2020 - 2021 Padova, Italy
- **PhD in Medical Genetics University of Sassari**
2014 - 2017 Sassari, Italy
- **PhD in Biochemistry "La Sapienza" University of Rome**
2008 - 2011 Rome, Italy
- **Certificate in Bioinformatics University of Koeln**
04/2004 - 04/2005 Koeln, Germany
- **Degree in Chemistry and Pharmaceutical Technologies University of Padova**
1998 - 2003 Padova, Italy
- **Classical High School Diploma "De Castro" Classical High School**
1993 - 1998 Oristano, Italy

LANGUAGE SKILLS

MOTHER TONGUE: Italian

Other languages:

- English
 - Listening: B2
 - Speaking: B2
 - Reading: C1
 - Writing: C1
- French
 - Listening: A1
 - Speaking: A1
 - Reading: A1
 - Writing: A1
- Sardinian

- Listening: C1
- Speaking: A2
- Reading: C1
- Writing: A2

SKILLS

- Autonomous email management
- Social Networks
- Email
- Programming (HTML and CSS)
- Good knowledge of various programming languages, including Python and MySQL
- Proficiency with the Office Suite (Word, Excel, PowerPoint, etc.)
- Windows and Linux (graphical interface and shell commands)
- Bioinformatics analysis
- Python scripting for data science and bioinformatics
- R programming (advanced)
- Bioinformatics pipelines for big-data analysis
- Programming languages: SQL Base, R Base
- Basic Web Developer (HTML, CSS, JavaScript, PHP, MySQL)
- Known programming languages (C, Java, Python, HTML, CSS)

PROJECTS

INF-ACT MARE Project (PON MIUR DD 307/2025)

Pharmacogenetics implementation and study in the Sardinian population

2026 – Present, Principal Investigator, Budget: €750,000

Pharmacoepidemiological analysis of the Italian Multiple Sclerosis Registry for the design of pharmacogenetic studies of disease modifying therapies.

Pilot project FISM AISM Grant (Multiple Sclerosis Italian Association). Budget: 35,000 EUR, grant ID 2024/PR-single/004. 09/02/2025 - PRESENT

TrasLA - amniotic fluid transcriptome

Funding of 16,000 euros for the analysis of the amniotic fluid transcriptome, Programma I FAIR - Valorizzazione della ricerca clinica Indipendente e FAIR, Regione Sardegna (IT).

01/11/2024 - PRESENT

"Azure Genomics" grant, obtained from Microsoft for a total of 15,000 euros (in computational resources), 2019 – 2019.

"Google Cloud" grant for a total of 5,000 dollars (in computational resources), 2019 – 2019.

Identification of the genetic causes of Rheumatoid Arthritis in the Sardinian population through an association study on the entire genome: 60,000 euro funding from the Fondazione Sardegna; role: study coordinator; 2018.

LIFE PROSIL - LIFE12 ENV/IT/000154

100,000 euro funding for the creation of in silico models for predictive toxicology.

<https://webgate.ec.europa.eu/life/publicWebsite/project/LIFE12-ENV-IT-000154/promoting-the-use-of-in-silico-methods-in-industry>. 01/10/2013 - 30/09/2016

ACADEMIC AND INSTITUTIONAL ROLES

- National Coordinator, Pharmacogenetics Working Group (SIGU, Italian Society of Human Genetics) – since 2025
- Co-Coordinator (2023–2025), Pharmacogenetics Working Group (SIGU)
- Vice-Coordinator, Multifactorial Diseases WG (SIGU) – since 2023
- Member, Scientific Committee – Istituto Zooprofilattico della Sardegna – since 2023
- Former President, MSc in Human Nutrition Sciences (2021–2024)
- Member, Erasmus Committee (2016–2019)
- Coordinator, Departmental Communication Committee – since 2024
- Member, PhD Board in Medical Sciences – since 2016

SOCIAL AND POLITICAL ACTIVITIES

City councilor and majority group leader in the Municipal Council of Solarussa (OR). 10/2021 - PRESENT Solarussa (OR), Italy

CONFERENCES AND SEMINARS

Scientific Committee Member – National SIGU Congress 2026

Scientific Committee Member – ESPT Congress 2027

Meeting with ECM "Le nuove sfide della medicina di precisione in oncologia: dalla farmacogenetica al TDM", 28/11/2025 – 28/11/2025 Padova (IT), Scientific Committee: Erika Cecchin, Elisa Boldrin, Matteo Floris, Matteo Curtarello

Speaker at Trieste Next event, 27/09/2025 Trieste (IT), FARMACOGENETICA E MEDICINA PERSONALIZZATA: DALLA TEORIA ALLA PRATICA

Grandangolo in Genetica Medica 2025, June 2025, Rome. Invited speaker: "La medicina personalizzata: dai precetti pitagorici alla farmacogenetica germinale".

V Sardinian Day of Sports Medicine. Invited speaker for the ECM webinar "V Giornata Sarda di Medicina dello Sport" with a talk titled "Chronological age and biological age: when aging is not the result of just years passed". 01/02/2025 Webinar

Organizer and speaker of the ECM Course "GENOME-WIDE ASSOCIATION STUDIES (GWAS): FROM RISK LOCI TO CLINICAL PRACTICE", at the University of Turin.

Scientific Committee: Prof. Mario Capasso (University of Naples Federico II); Prof. Matteo Floris (University of Sassari); Dr. Ferdinando Bonfiglio (University of Naples Federico II); Prof. Davide Gentilini (University of Pavia); Prof. Giuseppe Matullo (University of Turin). 29/11/2024 - 29/11/2024 Turin, Italy.

THE 1st INTERNATIONAL CONFERENCE ON BIOMEDICAL SCIENCE (ICBMS 2024), University of Hue - Chair and Speaker in the session "Innovations in Genomic Technologies". 06/12/2024 - 06/12/2024 Hue, Vietnam

XXVII NATIONAL CONGRESS OF THE SIGU (Italian Society of Human Genetics). Invited moderator of the COMPLEX DISEASES section. 02/10/2024 - 04/10/2024 Padova (IT).

Training Course on Germline and Somatic Pharmacogenetics.

Organizer, moderator and speaker of the Training Course on Germline and Somatic Pharmacogenetics (with ECM) at Manifattura Tabacchi (Sardegna Ricerche) organized by the SIGU Pharmacogenetics Working Group, Coordinators: Monica Miozzo, Matteo Floris. 12/09/2024 - 13/09/2024 Cagliari (IT)

XXVI NATIONAL CONGRESS OF THE SIGU (Italian Society of Human Genetics)

Oral communication "Genetic regulation of 259 circulating lipid species in a Sardinian cohort". 04/10/2023 - 06/10/2023 Rimini (IT)

Conference *Paleopathology, anthropology, archaeology and malaria in Sardinia results and perspectives*, oral communication "Studies of selection and the Sardinian genome: opportunities for malaria research", 05/2015 Olbia (IT).

1st Computer driven drug discovery meeting

oral communication "Chemoinformatics on an island"; 09/2011 L'Aquila

Conference *New perspectives in pharmaceutical chemistry*

oral communication "Swimming into peptidomimetics drug space"; 10/2011 Trieste

BeMM symposium 2011

oral communication "From genomics to in silico pharmacology"; 01/2011 University of Rome La Sapienza".

Conference *New perspectives in pharmaceutical chemistry*
oral communication "MMsINC: an alternative chemoproteomics amphitheater".
09/2010 Santa Margherita di Pula.

FITOMED2004, Intersociety Congress on Medicinal Plants
oral communication "FitoMyMol: a new web-oriented relational database for the structural archiving of natural products"; 09/2004 Trieste.

BIOINFORMATICS SOFTWARE AND TOOLS

CDK - The Chemistry Development Kit

Link <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4901983/>

MMsINC - chemoinformatics database

Link <https://pubmed.ncbi.nlm.nih.gov/18931373/>

pepMMSMIMIC - peptidomimetic compound virtual screening tool

Link <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3125738/>

HOBBIES AND INTERESTS

- Sport: tennis and running.

MANAGEMENT AND LEADERSHIP SKILLS

- Co-Coordinator of the National Pharmacogenetics Working Group - SIGU
Since 2023, co-coordinator of the national Pharmacogenetics working group of the SIGU - Italian Society of Human Genetics.
- External member of the Research Scientific Committee of the Zooprofylactic Institute of Sardinia
Since 2023, member of the Research Scientific Committee of the IZS Sardinia.
- Vice National Coordinator of the Multifactorial Diseases working group of the SIGU
Since 2023, vice coordinator of the national Multifactorial Diseases working group of the SIGU - Italian Society of Human Genetics.
- President of the Degree Course in Food Science, University of Sassari
From October 2021 to October 2024, President of the Degree Course in Food Science, University of Sassari.
- Member of the Departmental Erasmus commission
From 2016 to 2019, member of the Erasmus commission of the Department of Biomedical Sciences of the University of Sassari.
- Coordinator of the Departmental Communication commission

Since 2024, coordinator of the Internal and External Communication commission of the Department of Biomedical Sciences of the University of Sassari.

- 01/01/2016 - PRESENT

Member of the Board of Lecturers of the PhD school in Medical Sciences

Member of the Board of Lecturers of the PhD school in Medical Sciences, University of Sassari.

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Publications

- Please find the complete list of publications in the attached document.

Matteo Floris

March 2026