



Eric Rivals

CNRS Research director

Education

- 2005 **Habilitation à Diriger des Recherches**, *Univ. Montpellier*, France.
Algorithms for sequence analysis in bioinformatics
- 1993–1996 **PhD in Computer Science**, *Univ. Lille*, France.
Compression and genetic sequence analysis
- 1992–1993 **Master in Computer Science**, *Univ. Lille*, France.
- 1990–1991 **Master in Artificial Intelligence & Software engineering**, *Univ. Lille*, France.

Experience

- 2008–present **Research director**, CNRS, LIRMM, Montpellier.
- Head of the ATGC Montpellier Bioinformatic platform (2016-)
 - Head of Institute of Computational Biology (2015-2019);
 - Head of CNRS research network (GdR) Molecular Bioinformatics (2010-2015);
- 1999–2007 **Research fellow**, CNRS, LIRMM, Montpellier.
- Head of the Dpt of Computer Science (2007-2010)
 - Launch of “Next Generation Sequencing” activity on ATGC Bioinformatic platform (2007)
- 1996–1999 **Postdoctoral fellow**, *German Cancer Research Center (DKFZ)*, Heidelberg, Germany.
Fast algorithms for similarity search – Transcriptomics

Project leadership or co-leadership (> 2012)

- 2023-2024 **Cancer diagnostic (maturation/innovation) SATT AxLR funding - 850 KE**
- 2022-2023 **BIO-PEA "Plan de relance" funding w. SPYGEN company - 110 KE**
- 2017-2020 **Flagship “Gene expression Modelling” Labex NUMEV - 250 KE** 5 research units
- 2016-2018 **3GenSeq “Long read error correction” Inst. Français de Bioinformatique - 90 KE**
- 2012-2018 **“Next Gen. Sequencing & algorithms” Inst. of Computational Biology - 200 KE**
- 2014-2017 **“Translation” Fondation Recherche Médicale (FRM) - 150 KE**
- 2013-2014 **“Assembling the reference genome of a marine algae” Labex NUMEV - 40 KE**
- 2012-2016 **“Big Data: SeqPheHD++”, MASTODONS CNRS - 370 KE** 5 research units
- [Group leader in projects or consortia \(> 2012\)](#)
- 2021-2024 **“ALPACA” Marie Curie ITN - European C.** 13 institutes
- 2018-2021 **“FluoRib” INCA (Nat. Cancer Institute) PLPBIO** 5 partners
- 2020-2024 **“SCORE” INCA (Nat. Cancer Institute) PLPBIO** 3 partners
- 2022-2025 **“Translatol” Fondation ARC (Cancer Research)** 3 partners
- 2020-2021 **“EpiTransDiag” SIRIC Montpellier** 4 partners

Group & supervision

Current

PhD students **J. Moutet** (2022-25) Algorithms and metagenomics - cs F. Pardi; **P. Wang** (2021-24) Pan-genomics

Postdocs and engineers **M. Buffard** (2024), Myeloma project; **S. Govindaswamy** (2024-26), Translatome - TRANSLATOL project; **N. Romaschenko** (2022-23), CNRS & proper funding

Past

PhD students N. Romaschenko (2021), S. Relier (2020), S. Pulicani (2018), B. Cazaux (2016), N. Philippe (2011), R. Uricaru (2010), S. Leclercq (2007), F. Nicolas (2005), S. Bérard (2003), J.-S. Varré (2000)

Engineers B. Linard (2019), J. Veyssier (2017-18), A. Makrini (2014-16), V. Maillol (2012-14), F. Lethiec(2003-05)

Postdocs N. Romaschenko (2022-23), C. Mandier (2022-23), J. Ripoll (2019-23), B. Cazaux (2020-21), G. Scholz (2018-20), D. Paulet (2014-18), R. Canovas (2015-17), M. Hébrard (2012-13), A. Mancheron (2007-09)

Editorial boards & Program committees (PC)

Journals NAR Bioinformatics & Genomics (Oxford Univ. Press); BMC Bioinformatics (BioMedCentral)

PC Chair ECCB European Conference on Computational Biology 2014 (area chair); JOBIM 2009 (co-chair I. Rusu)

Main PC memberships in Computer Science (CS) and Bioinformatics

CS SOFSEM 2020, 2021; SPIRE 2017; CPM 2017; DICTAP 2011; STACS 2008;

Bioinformatics Workshop on Algorithms in Bioinformatics WABI 2018–2023;

ECCB European Conference on Computational Biology: 2003, 2008, 2012, 2014, 2016

RECOMB-SEQ 2016; RECOMB Comparative Genomics: 2010, 2013

Conference and workshop organisation

Workshop **Data Structures in Bioinformatics**, creation & org., Montpellier 2014 2024, Bielefeld (D), 2016

Colloquium **Indexing for scientific Big Data**, Paris 2014 (125 participants)

Symposium **Bioinformatics**, National network (GdR), Paris 2013, Paris 2015 (80-120 p.)

Colloquium **Bioinformatics for High Throughput Sequencing**, creation & org., Paris 2010 (250 p.), Paris, 2011 (380 p.)

Teaching and training

Summer - winter

Schools

- Big data, open data Univ. Strasbourg 2018
- EMBO Pasteur, Tunis 2014
- EPIT Oléron 2014
- NOVA, Sweden, 2012

University course

Master, Licence

- Montpellier
- Text Algorithms
- Bioinformatics
- Licence, Lille
- Database
- Computer networks

Bioinformatics training sessions at ATGC platform

- for Next Gen. Sequencing, 2015-2020
- Linux and Python for bioinformatics, 2017-2020
- Python and Pandas for data processing, 2021-

Web links (clickable)

Lists  –  –  –  –  –  –  – 

Patents and publications 4 patents – **Life Sciences**: 50 on PubMed – **Computer Science**: 70 on DBLP

Network activities and services

Int'l and Nat'l Networks

- Eur. COST Action TRANSLACORE (2022-2026) “Bioinformatics” WG co-leader
- *French Institute of Bioinformatics* (2014–) French ELIXIR node
- *France Genomique* (2012–) as ATGC platform leader

Services

- Scientific committee of SIRIC Montpellier (2023–)
- INRAE recruitment panel (2022, 2015, 2010)
- HCERES evaluation panel for TIMC (2020)