

# CURRICULUM VITAE

## PERSONAL INFORMATION

Allegra Via



<https://allegravia.github.io/website/>

H-index: 21

Citations: 2379

Sex F | Date of birth 24/01/1968 | Nationality Italian | Status Separated, two children (born 1998 and 2001)

## CURRENT POSITIONS & ROLES

**Institute of Molecular Biology and Pathology (IBPM), National Research Council (CNR), Rome, IT**  
*Research Scientist, 2016 -*

### ELIXIR

*Co-lead of the ELIXIR-EXCELERATE Train-the-Trainer subtask, 2015 -*

*Co-lead of Training Platform Task 4 (Capacity Building), ELIXIR Project Plan 2019 – 2021*

### ELIXIR-IT

*Training Platform Coordinator, 2015 -*

**University of Bologna, School of Science, Master Degree in Bioinformatics, Laboratory of Bioinformatics 1 – Modulo 3, Bologna, IT**  
*Adjunct professor, 2015 - 2019*

**University of Bologna, School of Science, Master Degree in Bioinformatics, Programming for Bioinformatics – Modulo 2, Bologna, IT**  
*Adjunct professor, 2018 - 2019*

**Sapienza University, Degree in Biological Sciences, Laboratory of Bioinformatics, Rome, IT**  
*Adjunct professor, 2017 – 2019*

**Sapienza University, QuID group (Group for the Quality and Innovation of Teaching), Rome, IT**  
*Expert, 2017 -*

## NATIONAL SCIENTIFIC QUALIFICATION

Associate Professor: Molecular Biology (05/E2 - SSD BIO/11)

Associate Professor: Applied Physics (02/B3 - SSD FIS/07)

Associate Professor: Biochemistry (05/E1 – SSD BIO/10)

## WORK EXPERIENCE

### Dec 2016 - Research Scientist

*Institute of Molecular Biology and Pathology, The National Research Council, Italy (IBPM-CNR)*

- Research in protein structure, function and diseases; Cognitive and educational psychology and learning processes; teaching and training; undergraduate, graduate, and PhD student tutoring; bachelor and master degree thesis supervising; grant writing; collaboration coordination. Networking.

### Jan 2016 – Dec 2016

### Research Associate (RTD)

*Institute of Biomembrane and Bioenergetics, The National Research Council, Italy (IBIOM-CNR)*

- Research in protein structure, function and diseases; Cognitive and educational psychology and learning processes; teaching and training; undergraduate, graduate, and PhD student tutoring; bachelor and master degree thesis supervising; grant writing; collaboration coordination. Networking.

Jan 2013 – Dec 2015

### Research Associate (RTD)

*Department of Physics, Sapienza University of Rome, Italy* (<http://www.phys.uniroma1.it/fisica/>)

- Research in protein structure, function and diseases; teaching and training; undergraduate, graduate, and PhD student tutoring; bachelor and master degree thesis supervising; grant writing; collaboration coordination. Networking.

**Sector** Structural Bioinformatics and Computational Biology

### Sept 2015 - Training Coordinator of the ELIXIR Italian node (ELIXIR-IT)

- Coordination of ELIXIR-ITA training activities. ELIXIR (<http://www.elixir-europe.org>) is a distributed sustainable European infrastructure for life science information, supporting life science research and its translation to medicine, agriculture, bioindustries and society. ELIXIR-ITA (the Italian node of ELIXIR) is a Joint Research Unit with twelve member institutions (8 Universities including Sapienza, CNR, CRS4, INFN, CINECA)

**Sector** Training in Bioinformatics

Nov 2015 – Sep 2017

### ELIXIR-IT Technical Coordinator for Sapienza University

- Coordination of ELIXIR-ITA research support activities for Sapienza University, Rome

**Sector** Support to Bioinformatics research

Dec 2009 – Dec 2012

### Research Associate (RTD)

*Department of Biochemical Sciences, Sapienza University of Rome, Italy*

([http://w3.uniroma1.it/bio\\_chem/sito\\_biochimica/index.html](http://w3.uniroma1.it/bio_chem/sito_biochimica/index.html))

- Research in protein structure, function and diseases; teaching and training; undergraduate, graduate, and PhD student tutoring; bachelor and master degree thesis supervising; grant writing; collaboration coordination. Networking.

**Sector** Structural Bioinformatics and Computational Biology

Dec 2007 – Nov 2009

### Postdoc

*Department of Biochemical Sciences, Sapienza University of Rome, Italy*

([http://w3.uniroma1.it/bio\\_chem/sito\\_biochimica/index.html](http://w3.uniroma1.it/bio_chem/sito_biochimica/index.html))

- Research in protein structure and function. Protein phosphorylation. Linear motifs. Teaching. Undergraduate, graduate, and PhD student tutoring; grant writing.

**Sector** Structural Bioinformatics and Computational Biology

Dec 2006 – Nov 2007

### Postdoc

*Department of Experimental Biology of Evolution, Alma Mater Studiorum Università di Bologna, Bologna, Italy* (<http://www.unibo.it/>)

- Research in protein structure and function. Protein phosphorylation. Linear motifs. Neural networks. Modelling of biological systems. Teaching. Undergraduate, graduate, and PhD student tutoring. Contribution to grant writing.

**Sector** Bioinformatics and Computational Biology

Sep 2006 – Nov 2006

### Postdoc

*Department of Biology, University of Rome "Tor Vergata", Italy* (<http://www2.bio.uniroma2.it>)

- Research in protein sequence, structure and function. Protein phosphorylation. Linear motifs. Neural networks. Modelling of biological systems. Teaching and teacher assistant. Undergraduate, graduate, and PhD student tutoring. Contribution to grant writing.

**Sector** Bioinformatics and Computational Biology

Sep 2003 – Aug 2006

### Postdoc

*Department of Biology, University of Rome "Tor Vergata", Italy* (<http://www2.bio.uniroma2.it>)

- Research in protein sequence, structure and function. Protein phosphorylation. Linear motifs. Neural networks. Modelling of biological systems. Teaching and teacher assistant. Undergraduate, graduate, and PhD student tutoring. Contribution to grant writing.

**Sector** Bioinformatics and Computational Biology

May 2003 – Aug 2003

### Posdoc

*Department of Biology, University of Rome "Tor Vergata", Italy (<http://www2.bio.uniroma2.it>)*

- Research in protein sequence, structure and function. Protein phosphorylation. Linear motifs. Modular domains. Modelling of biological systems. Teacher assistant. Undergraduate and graduate student tutoring. Contribution to grant writing.

**Sector** Bioinformatics and Computational Biology

Nov 1999 – Apr 2003 **PhD in Cellular and Molecular Biology**

*Department of Biology, University of Rome "Tor Vergata", Italy (<http://www2.bio.uniroma2.it>)*

- Research in protein sequence, structure and function. Protein phosphorylation. Linear motifs. Modular domains. Modelling of biological systems. Teacher assistant. Undergraduate student tutoring.

**Sector** Bioinformatics and Computational Biology

Feb 1998 – Oct 1999 **Postgraduate Fellowship**

*Department of Biology, University of Rome "Tor Vergata", Italy (<http://www2.bio.uniroma2.it>)*

- Research in protein sequence, structure and function. Modular domains. Modelling of biological systems

**Sector** Bioinformatics and Computational Biology

## EDUCATION AND TRAINING

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Apr 2003 **PhD in Cellular and Molecular Biology**

Department of Biology, University of Rome "Tor Vergata", Italy

- Thesis title: Protein structural study for the optimization and analysis of sequence functional motifs.
- Supervisor: Prof. Manuela Helmer-Citterich.

**Sector** Cellular and Molecular Biology, Bioinformatics and Computational Biology

Jul 1997 **Master Degree in Physics**

Department of Physics, Sapienza University, Rome, Italy

- Thesis Title: Analytical study of the Sherrington and Kirkpatrick spin-glass model.
- Supervisor: Prof. Giorgio Parisi.

**Sector** Mechanics, Dynamics, Quantum Mechanics, Mathematical Analysis, Condensed matter, Statistical Mechanics, Theoretical Physics, Spin-glasses

Aug 1994 – Jul 1995 **Erasmus programme**

Department of Mathematics, Université Paris VII, Paris, France

**Sector** Mathematical Analysis, Statistical Mechanics, Mathematical Methods applied to Physics.

## PERSONAL SKILLS

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**Mother tongue** Italian

**Other languages** **English:** Proficient in spoken and written language (C1/C2)

**French:** Proficient in spoken and written language (C1/C2)

**German:** Basic communication skills (A1)

**Programming&software**

- UNIX/Linux, MacOSX
- Python programming
- Web programming (HTML, CGI)
- MySQL, PostgreSQL
- R scripting
- PyMOL, Chimera, SwissPDBviewer
- Docking packages (e.g. Autodock)
- Network analysis software (Cytoscape)
- Several Bioinformatics and Computational Biology software (e.g. local Blast+, ClustalW, Modeller, etc.)

### Communication skills

- good communication skills gained through the experience as teacher, trainer and public speaker;
- experienced in scientific manuscript and grant writing;
- good public speaking skills acquired giving talks and seminars;
- good communication over distance skills acquired in conference calls;
- comfortable in speaking to interdisciplinary audiences about technical and scientific topics.

### Organisational/managerial skills

- leadership (lead of the ELIXIR-IT Training Platform; co-lead of the ELIXIR-EXCELERATE Train the Trainer programme; co-chair of the ELIXIR-Carpentries Working Group)
- project coordination ability (coordination of ELIXIR Train the Trainer Subtask; coordination of the ELIXIR-IT Training Platform, WP PI in European and Italian Project)
- manuscript review management capability (as Editorial Board member and reviewer of scientific journals)
- network management (as Chair of BTN and ELIXIR-IIB Training Platform coordinator)
- workshop and course organisation skills (obtained co-organising a workshops, a conference and training courses)

### Other skills

- passionate about working and engaging with others to achieve goals; adaptable; independent; team player; interested in community building; proactive; perfectionist; curious. Passionate about drawing, painting and writing.

### Driving licence

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## ADDITIONAL INFORMATION

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### Research projects

- Devon CNR 1997 (Target project in Biotechnology) Three-dimensional profiles: a new software and database for the analysis of protein function, stability and specificity (36 months) – **Participant**
- EU FP6 2000 ELM: The Eukaryotic Linear Motif Resource ELM: A new European Bioinformatics facility for revealing functional sites in modular proteins (id QLRI-CT-2000-00127) (36 months) – **Participant**
- TELETHON 2000: A multi-centre bioinformatic project for a systematic investigation of genes expressed in human skeletal muscle (id GP0101Y01) (36 months) – **Participant**
- AIRC 2001: Specificity of recognition and/or interaction in phospho-proteins (36 months) – **Participant**
- FIRB 2001: Bioinformatica per la Genomica e la Proteomica (36 months) – **Participant**
- MIUR FSSRIS 2002 (Fondo Speciale per lo Sviluppo della Ricerca di Interesse Strategico) GENEFUN: Geni e loro funzioni: un approccio integrato (24 months) – **Participant**
- FIRB 2003 LIBI: Laboratorio Internazionale di Bioinformatica (36 months) – **Participant**
- TELETHON 2004: A bioinformatic approach for the identification of interactors of proteins involved in genetic diseases (id GGP04273) (24 months) – **Participant**
- AIRC 2005: A structural approach for the analysis of recognition specificity in phospho-proteins (36 months) – **Participant**
- EU FP7 2008 LEISHDRUG: Targeting the Leishmania kinome for the development of novel anti-parasitic strategies (36 months) – **Participant**
- KAUST (2008-2012): Computational Analysis of the Human Genome (48 months) – **Participant**
- Fondazione Roma (2009-2012): Rational approach to the specific inhibition of Plasmodium falciparum and Schistosoma mansoni (36 months) – **Participant**
- FIRB (2007-2013): Rete italiana di Bioinformatica (ITALBIONET) (60 months) – **Participant**
- Progetto di Ateneo 2011: Identificazione di target molecolari in malaria e schistosomiasi e caratterizzazione delle loro interazioni con potenziali inibitori (12 months) – **Principal Investigator**
- PRIN 2012: Approccio integrato computazionale e sperimentale per lo studio di patologie umane (12 months) – **Participant**
- Progetto di Ateneo 2013: Characterisation of Plasmodium falciparum antigens triggering autoimmune response (12 months) – **Principal Investigator**
- ELIXIR-EXCELERATE (2014–2019): Grant funded by the European Commission within the Research

Infrastructures programme of Horizon 2020 following the ESFRI and European Council decision in 2014 to categorize ELIXIR as one of Europe's three priority new Research Infrastructures. Grant agreement number 676559 – **Lead of the WP11 Train the Trainer subtask.**

- ELIXIR Implementation Study on Learning Paths (2018 – 2019) – **Participant**
- ELIXIR Project Plan 2019-2021 - **Co-lead of Task 4 "Capacity Building"**
- ELIXIR Infrastructure for the Rare Disease-Community (2019-21) - **Co-PI of WP4**
- PON Research and Innovation (2019 - 2023), "Centro Nazionale di Ricerca in Bioinformatica per le scienze Omiche" – **Scientific coordinator of the Training Platform WP.**

#### Main invited seminars

- 2019: Title: "Curriculum Development: considerations for education and training", Pan African Bioinformatics Network for H3Africa (H3ABioNet), Education summit, Cape Town, South Africa.
- 2018: Title: "The ELIXIR Italy Training Platform: supporting researchers and professionals in acquiring specialized computational and data management skills", GARR Conference on Data Revolution, Cagliari, IT
- 2018: Title: "ELIXIR: Safeguarding the results of life science research in Europe", EaPConnect e-Health workshop on Biomedical collaborations over National Research and Education networks: success stories and best practices, Istituto Superiore di Sanità, Rome, IT
- 2018: Title: "Cognitive psychology in the bioinformatics learning enterprise", ISMB COSI on Computational Biology Education, Chicago, US
- 2018: Title: "A critical look at competencies", ELIXIR workshop on ELIXIR Implementation Study on Learning Paths, Amsterdam, NL
- 2017: Title: "From knowledge, skills and abilities to learning paths: Using Mastery Rubrics for training", GOBLET AGM Workshop, Oeiras, PT
- 2017: Title: "Integrating protein-protein interaction and expression data for the identification of cellular targets in drug delivery", Workshop of the SIB group on "Computational and Systems Biology", Bologna, IT
- 2016: "Ten simple rules to make your teaching more effective", BITS 2016 Conference, University of Salerno, Fisciano (SA), IT
- 2016: "Role of structure-based homology modeling in biomolecular sciences", Scientific School on "Computational modeling for Life Sciences", Sardinian Scientific and Technological Park, Pula (CA), IT
- 2014: Title: "Computational approaches to the study of functional sites in biomolecules", Dept. of Experimental Medicine and Surgery, University of Rome "Tor Vergata", IT
- 2014: Title: "A computational approach for the study of therapeutic targets and their inhibitors in human pathogens", TAGC Inserm, Aix-Marseille Université, France.
- 2013: Title: "Best practices in programming for biological data management", The Genome Analysis Centre, Norwich, UK
- 2013: Title: "GOBLET", NextGenBug 31st meeting, ARK Genomics, Roslin, Edinburgh, UK
- 2012: Title: "A structural approach to the study of therapeutical targets and their inhibitors in human pathogens", Bi-national Israel-Italy meeting, Tel Aviv University, IL
- 2009: Title: "Cross-talking between human genome variations and their protein environment: a computational study", IRB Barcelona, SP
- 2008: Title: "Structural bioinformatics: a meeting-place for Biology and Physics", Alma Mater Università di Bologna, IT
- 2006: Title: "High-throughput protein functional annotation based upon local structure similarity", Genome Annotation: a BioSapiens Network of Excellence Initiative. 5<sup>th</sup> European Conference on Computational Biology (ECCB), IL
- 2001: Title: "Proteins: Structure, Function, Evolution", IUSS (Istituto Universitario di Studi Superiori), University of Pavia, IT
- 2001: Title: "The structure of Proteins", in the Course of "Problems in Biological Evolution"; Scuola di Genetica di Cortona, Associazione Genetica Italiana (AGI), Cortona, IT

#### Honours and awards

- 2002 – Telethon award
- 2005 – Telethon award

#### Workshop and course organisation

- Organised the **ELIXIR-EXCELERATE Train the Trainer course**, Padova, Italy, 30-31 May, 2018

- Co-organised the **ELIXIR - Data Carpentry workshop**, Milano, Italy, 14-15 Feb, 2018
- Co-organised the **ELIXIR - Software workshop**, Napoli, Italy, 11-12 Feb, 2019
- Co-organised the **ELIXIR-EXCELERATE Train the Trainer course**, Stockholm, Sweden, 9-11 Oct, 2018
- Co-organised the **ELIXIR-EXCELERATE Train the Trainer course**, Rome, I, 27-28 Sep, 2018
- Co-organised the Practical course on **Population Genomics: background and tools**, Naples, Italy, 21-27 Apr, 2018
- Co-organised the **Software Carpentry Workshop**, Paris, France, 28-29 Mar, 2018
- Co-organised the **ELIXIR-EXCELERATE Train the Trainer course**, Paris, FR, 26-27 Mar, 2018
- Co-organised the **Software Carpentry Workshop**, Milan, Italy, 22-23 Feb, 2018
- Co-organised the **ELIXIR-EXCELERATE Train the Trainer**, Lausanne, CH, 30-31 Jan, 2018
- Co-organised the practical course on **Linux shell scripting for high-throughput biological data processing on supercomputers**, Roma, IT, 16-17 Jan, 2018
- Co-organised the **Curation workshop on molecular and causal interactions**, Roma, IT, 5-7 Dec, 2017.
- Organised the **ELIXIR-EXCELERATE Train the Trainer course**, Salerno, IT, 27-29 Sep, 2017
- Co-organised the **Elixir-IIB/NETTAB Tutorial on Biological Networks: data analysis, visualization and medical application**, Palermo, IT, 18-19, Oct 2017
- Organised a Training course on **Python for Life Scientists**, Rome, IT, 11-15 September 2017
- Co-organised the training course on **RNA-Seq data analysis**, Milan, IT, 18-20 July 2017
- Co-organised a Workshop and a Summer School on **Advanced Computational Metagenomics**, Bari, IT, 19-23 June 2017
- Co-organised the EMBO Practical Course on **Population Genomics: background and tools**, Naples, IT, 18-26 May 2017.
- Co-organised the practical course on **Computational approaches to the study of protein interactions and rational drug design**, Padua, IT, 10-13 April 2017
- Local organiser for the **ELIXIR All Hands meeting** 2017, Rome, IT, ~400 participants, 20-23 March 2017
- Local organiser for the NETTAB 2016 workshop on **Reproducibility, standards and SOP in bioinformatics**, CNR, Rome, IT, ~100 participants, October 2016
- Co-organised the NETTAB 2016 satellite Goblet/ELIXIR-IIB joint tutorial on **Train the Trainer**, CNR, Rome, IT, expected 20 participants, October 2016
- Co-organised the Education & Training special session of the NETTAB 2016 Workshop, CNR, Rome, IT, October 2016
- Co-organised the practical course on **Python for Life Scientists**, University of Bari, Bari, IT, expected 24 participants, September 2016
- Co-organised the practical course on **Exome analysis using Galaxy**, University of Milano-Bicocca, Milano, IT, expected 24 participants, September 2016
- Co-organised the 2<sup>nd</sup> ELIXIR-EXCELERATE **Train the Trainer** course, IGC, Oeiras, PT, (limited to) 8 participants, July 2016
- Co-organised the BITS 2016 satellite workshop on **Effective academic teaching**, University of Salerno, Fisciano (SA), IT, 20 participants, June 2016
- Co-organised and co-chaired the round table on **Teaching Bioinformatics: state-of-the-art and new ideas** at the BITS 2016 conference, University of Salerno, Fisciano (SA), IT, June 2016
- Co-organised the 1<sup>st</sup> ELIXIR-EXCELERATE **Train the Trainer** course, University of Cambridge, Cambridge, UK, (limited to) 10 participants, May 2016
- Co-organised the ELIXIR-IIB practical course on **NGS for evolutionary biologists: from basic scripting to variant calling**, CNR, Naples, IT, 24 participants, May 2016
- Co-chaired the ELIXIR-EXCELERATE **Train the Trainer** framework workshop, EBI, Hinxton, UK, January 2016
- Co-organised the ELIXIR-IIB practical course on **Protein networks and systems biology**. Università di Bologna, Bologna, IT, 24 participants, December 2015
- Co-organised the ELIXIR-IIB practical course on **NGS for evolutionary biologists: from basic scripting to variant calling**. CINECA Auditorium, Rome, IT, 24 participants, November 2015
- Organised the ELIXIR-IIB practical course on **Gene expression profiling with HTS: RNA-Seq data analysis**. CINECA Auditorium, Rome, IT, 24 participants, October 2015
- Co-organised the practical course on **Next Generation Sequencing data analysis**. PhD School in Biology and Molecular Medicine (BeMM), Rome, IT, 40 participants, October 2015

- Co-organised the practical course on **Python for Life Scientists**. The Genome Analysis Centre, Norwich, UK, 25 participants, 40h, October 2013 and April 2015
- Co-organised the workshop: **Bioinformatics Training for Life Scientists: Showcases and Challenges from Tutors' Perspectives**, Basel, CH, 40 participants, September 2012
- Local organising committee member of ECCB'o8 (European Conference on Computational Biology), Cagliari, Sardinia, IT, > 400 participants, September 2008.

## Memberships

### Scientific Journal Editorial Boards:

- BMC Research Notes (<http://www.biomedcentral.com/bmcresnotes>)
- Structural Biology (<http://www.hindawi.com/journals/sb/>)
- The Scientific World Journal (<http://www.hindawi.com/journals/tswj/>)
- Advances in Bioinformatics (Special Issue) (<http://www.hindawi.com/journals/abi/>)
- Frontiers in Genetics (Research Topic) ([http://www.frontiersin.org/systems\\_biology](http://www.frontiersin.org/systems_biology))

### Conference Organising Committees:

- ECCB (European Conference on Computational Biology)
- ISMB (International Conference on Intelligent Systems for Molecular Biology)
- BIRD (International Conference on Bioinformatics Research and Development)
- BIOINFORMATICS (<http://www.bioinformatics.biostec.org>)

### Societies and Organisations:

- GOBLET (Global Organisation for Bioinformatics Learning Education and Training - <http://www.mygoblet.org>) – Former secretary
- ISCB (International Society for Computational Biology - <http://www.iscb.org>) – Member
- SIB (Italian Society for Biochemistry) - Member
- BTN (Bioinformatics Training Network - <http://www.biotnet.org>) - Chair
- BITS (Bioinformatics Italian Society - <http://www.bioinformatics.it>) - Member
- "Training portal" ELIXIR task force (<http://www.elixir-europe.org>)
- "e-learning and training" ELIXIR task force (<http://www.elixir-europe.org>)

## Reviewer

### Scientific Journals:

- Bioinformatics
- Bioorganic Chemistry
- BMC Bioinformatics
- BMC Research Notes
- Briefings in Bioinformatics
- Computational and Mathematical Methods in Medicine
- Database
- FEBS letters
- GENE
- Infection, Genetics, and Evolution
- Journal of Computational Biology and Bioinformatics Research
- Nucleic Acids Research
- PLoS Computational Biology
- PLoS ONE
- Proteins
- Proteomics
- Molecular BioSystem
- PeerJ
- Journal of Molecular Cell Biology

### Research projects:

- Excellence project 2006, Fondazione Cariparo.
- Innovative health research 2012. EU

## Attendance to training courses

- August 2005: BioMalPar (FP6 Malaria Initiative) "Introduction to Plasmodium Bioinformatics". Wellcome Trust Sanger Institute. Hinxton, Cambridge, UK.

- February 2003: 4th Bologna Winter School "Hot Topics in Structural Genomics", Bologna, IT
- June 1998: ISI (Institute for Scientific Interchange foundation) Euroconference on "Protein folding and structure prediction", Villa Gualino, Torino, IT

## TEACHING AND TRAINING ACTIVITY

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Academic courses	<ul style="list-style-type: none"> <li>▪ AA2005/2010: Metodi informatici della Biologia (Computational methods for Biology, 48h), MD in Bioinformatics, University of Rome "Tor Vergata", IT</li> <li>▪ AA2010/2013: Macromolecular structures (60h), MD in Engineering of Nanotechnology, Sapienza University of Rome, IT</li> <li>▪ AA2011/2012: Biochemistry (48h), MD in Physics of Biosystems, Sapienza University of Rome, IT</li> <li>▪ AA2013/2015: Macromolecular structures (60h), MD in Engineering of Nanotechnology, Sapienza University of Rome, IT</li> <li>▪ AA 2015/2019: Laboratory of Bioinformatics 1 - Modulo 3 (30h) – Master Degree in Bioinformatics, University of Bologna, Bologna, IT</li> <li>▪ AA 2017/2019: Laboratory of Bioinformatics - Module 2 (24h). Degree in Biological Sciences, Sapienza University of Rome, Rome, IT</li> <li>▪ AA 2018/2019: Programming for Bioinformatics - Modulo 2 (40h) – Master Degree in Bioinformatics, University of Bologna, Bologna, IT</li> </ul>
Member of the board of examiners	<ul style="list-style-type: none"> <li>▪ Since 2012: Course of Physics, B.Sc. in Pharmaceutical Biotechnology, Sapienza University of Rome, IT</li> <li>▪ Since 2010: Course of Bioinformatics and Proteomics, B.Sc. in Pharmaceutical Biotechnology, Sapienza University of Rome, IT</li> <li>▪ 2001-2005 Course of Bioinformatics, B.Sc. in Cellular and Molecular Biology and B.Sc. in Human Biology, University of Rome "Tor Vergata", IT</li> <li>▪ 2003-2005 Course of Molecular Bioinformatics, MDs in Cellular and Molecular Biology, in Human Biology, and in Bioinformatics, University of Rome "Tor Vergata", IT</li> </ul>
Lectures in academic courses	<ul style="list-style-type: none"> <li>▪ AA 2002/2003: 8h in the Course of Bioinformatics, B.Sc. in Cellular and Molecular Biology and B.Sc. in Human Biology, University of Rome "Tor Vergata", Rome, IT</li> <li>▪ AA 2003/2005: 8h (each year) in the Course of Molecular Bioinformatics, MDs in Cellular and Molecular Biology, in Human Biology, and in Bioinformatics, University of Rome "Tor Vergata", Rome, IT</li> </ul>
Second level masters	<ul style="list-style-type: none"> <li>▪ AA2013/2014: Programming and algorithms for Bioinformatics (24h), Master in BIOINFORMATICS: Biomedical and Pharmaceutical applications. Sapienza University of Rome, Rome, IT</li> </ul>
Training experience as instructor	<ul style="list-style-type: none"> <li>▪ ELIXIR-Carpentries Instructor Training, Stockholm, SE, 3-4 Apr, 2019</li> <li>▪ EMBO Practical Course on Computational analysis of protein-protein interactions: Sequences, networks and diseases, Rome, 5-10 Nov, 2018</li> <li>▪ ELIXIR-EXCELERATE Train the Trainer course, Stockholm, SE, 9-11 Oct, 2018</li> <li>▪ ELIXIR-EXCELERATE Train the Trainer course, Rome, IT, 27-28 Sep, 2018</li> <li>▪ Software Carpentry Workshop, Paris, FR, 28-29 Mar, 2018</li> <li>▪ ELIXIR-EXCELERATE Train the Trainer course, Paris, FR, 26-27 Mar, 2018</li> <li>▪ Software Carpentry Workshop, Milan, IT, 22-23 Feb, 2018</li> <li>▪ ELIXIR-EXCELERATE Train the Trainer, Lausanne, CH, 30-31 Jan, 2018</li> <li>▪ Practical course on Linux shell scripting for high-throughput biological data processing on supercomputers, Rome, IT, 16-17 Jan, 2018</li> <li>▪ Carpentries Instructor Training (Train the Trainer) workshop, Online, 4-5 Dec, 2017</li> <li>▪ Carpentries Instructor Training (Train the Trainer) workshop, Utrecht, NL, 6-7 Nov, 2017</li> <li>▪ ELIXIR-EXCELERATE Train the Trainer course, Salerno, IT, 27-29 Sep, 2017.</li> <li>▪ ELIXIR-IIB practical course on Python for Life Scientists, Rome, IT, 11-15 Sept 2017</li> <li>▪ Carpentries Instructor Training (Train the Trainer) workshop, Online, 10-11 Jul, 2017</li> <li>▪ Carpentry Instructor Training (Train the Trainer) workshop, Online, 21-22 Feb, 2017</li> <li>▪ ELIXIR-EXCELERATE Train the Trainer course, University of Lausanne, CH, 16-18 Jan 2017</li> <li>▪ ELIXIR-EXCELERATE Train the Trainer course, University of Ljubljana, Faculty of Medicine, SE, 28-30 Nov, 2016</li> </ul>



- ELIXIR-IIB practical course on Python for Life Scientists, University of Bari, Bari, IT, 26-30 Sep, 2016
- RDA-CODATA Research Data Science Summer School, ICTP, Trieste, IT, Software Carpentry module, 1-4 Aug, 2016
- ELIXIR-EXCELERATE Train the Trainer course, IGC, Oeiras, PT, 10-15 Jul 2016
- Scientific School on "Computational modeling for Life Sciences", Sardinian Scientific and Technological Park, Pula (CA), IT, 6-10 June 2016
- RNA-seq data analysis workshop, University of Naples Federico II in collaboration with ELIXIR-IIB, Naples, IT, 6-10 Jun, 2016
- ELIXIR-IIB practical course on NGS for evolutionary biologists: from basic scripting to variant calling, CNR, Naples, IT, 2-5 May, 2016
- EMBO practical course on "Computational analysis of protein-protein interactions: Sequences, networks and diseases" (<http://events.embo.org/16-protein-protein/>), Budapest, HU, 30 May - 4 Jun, 2016
- ELIXIR-IIB practical course on "Protein networks and systems biology", University of Bologna, IT, 14-18 Dec, 2015
- ELIXIR-IIB practical course on "NGS for evolutionary biologists: from basic scripting to variant calling", CINECA Auditorium, Rome, IT, 23-27 Nov, 2015
- ELIXIR-IIB practical course on "Gene expression profiling with HTS: RNA-Seq data analysis", CINECA Auditorium, IT, 19-22 Oct, 2015
- PhD School in Biology and Molecular Medicine Training course on "Next Generation Sequencing data analysis", Sapienza University of Rome, Rome, IT, 5-7 Oct 2015
- EMBO practical course on Computational Analysis of Protein-Protein Interactions: From Sequences to Networks (<http://events.embo.org/15-protein-protein/>), TGAC, Norwich, UK, 28 Sept- 3 Oct, 2015
- 2<sup>nd</sup> level Master in Bioinformatics: Biomedical and Pharmaceutical applications, Course on "Programming and algorithms for Bioinformatics", Sapienza University of Rome, Rome, IT, (24h each year) in 2014 and 2015
- GTPB practical course on "Bioinformatics using Python for Biologists", Instituto Gulbenkian de Ciência, Oeiras, PT, (40h each year), 2010-2018
- TGAC practical course on "Python for Life Scientists", Norwich, UK, (40h each year), in 2013 and 2014
- Pasteur practical course on Proteomics and drug design", Institute Pasteur, Tunis, TN, (20h), Apr 2012
- Post-graduate training course on Bioinformatics applications", University of Rome "Tor Vergata", Rome, IT, (30h), 2000

#### Thesis supervisor

- 2010/2011: 2 thesis (G. Gonnelli and R. Lepore) in the MD in Bioinformatics, University of Rome "Tor Vergata", Rome, Italy.
- 2011/2012: 2 thesis (L. Lenci and F. Ruggeri) in the MD in Engineer of Nanotechnology, Sapienza University of Rome, Rome, IT
- 2014/2015: 1 thesis (I. Bonafede) in the MD in Engineer of Nanotechnology, Sapienza University of Rome, Rome, IT
- 2015/2016: 1 thesis (E. Micarelli) in the MD in Engineer of Nanotechnology, Sapienza University of Rome, Rome, IT
- 2017/2020: 1 PhD thesis (D. Staid) in the PhD School of Biochemistry, Sapienza University of Rome, Rome, IT

## SCIENTIFIC PUBLICATIONS

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#### Scientific journals

1. Tractenberg ET, Lindvall JM, Attwood KA, **Via A.** Guidelines for curriculum development in higher education: How learning outcomes drive all decision-making. In preparation
2. Tractenberg ET, Lindvall JM, Attwood KA, **Via A.** (2019) The Mastery Rubric for Bioinformatics: supporting design and evaluation of career-spanning education and training. bioRxiv 655456. doi: <https://doi.org/10.1101/655456>.
3. Four simple recommendations to encourage best practices in research software

4. Kuzak M, Harrow J, Jimenez RC, Martinez PA, Psomopoulos FE, Svobodová Vařeková R, **Via A.** (2018) Lesson development for Open Source Software best practices adoption. WSSSP6.1, October 29, 2018. doi: 10.5281/zenodo.1420462.
5. **Via A**, Attwood TK, Fernandes PL, Morgan SL, Schneider MV, Palagi PM, Rustici G and Tractenberg RE (2017) A new pan-European Train-the-Trainer Programme for bioinformatics: Pilot results on feasibility, utility and sustainability of learning. Briefings in Bioinformatics. 2017 Sep 26. doi: 10.1093/bib/bbx112.
6. Morgan SL, Palagi PM, Fernandes PL, Koperlainen E, Dimec J, Marek D, Larcombe L, Rustici G, Attwood TK, **Via A** (2017) The ELIXIR-EXCELERATE Train-the-Trainer pilot programme: empower researchers to deliver high-quality training. F1000Research 2017, 6:1557. doi: 10.12688/f1000research.12332.1.
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8. Schiffthaler B, Kostadima M, the **NGS Trainer Consortium**, Delhomme N and Rustici G (2016) Training in High-Throughput Sequencing: Common Guidelines to Enable Material Sharing, Dissemination and Re-Usability. PLoS Computational Biology, 12(6): e1004937. doi: 10.1371/journal.pcbi.1004937.
9. Ison J, Rapacki K, Ménager H, Kalaš M, Rydza E, Chmura P, Anthon C, Beard N, Berka K, Bolser D, Booth T, Bretaudeau A, Brezovsky J, Casadio R, Cesareni G, Coppens F, Cornell M, Cuccuru G, Davidsen K, Vedova GD, Dogan T, Doppelt-Azeroual O, Emery L, Gasteiger E, Gatter T, Goldberg T, Grosjean M, Grüning B, Helmer-Citterich M, Ienasescu H, Ioannidis V, Jespersen MC, Jimenez R, Juty N, Juvan P, Koch M, Laibe C, Li JW, Licata L, Mareuil F, Mičetić I, Friberg RM, Moretti S, Morris C, Möller S, Nenadic A, Peterson H, Profiti G, Rice P, Romano P, Roncaglia P, Saidi R, Schafferhans A, Schwämmle V, Smith C, Sperotto MM, Stockinger H, Vařeková RS, Tosatto SC, de la Torre V, Uva P, **Via A**, Yachdav G, Zambelli F, Vriend G, Rost B, Parkinson H, Løngreen P, Brunak S. (2016) Tools and data services registry: a community effort to document bioinformatics resources. Nucleic Acids Res. 44(D1):D38-47. doi: 10.1093/nar/gkv1116.
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The undersigned express their consent for the personal data provided to be processed, in compliance with the Legislative Decree 30 June 2003, n. 196, for the obligations related to the present application. The undersigned is aware that, pursuant to art. 76 of the D.P.R. n. 445 of the 28/12/2000, the false declarations, the falsity in the records and the use of false deeds are punished according to the penal code and the special laws in matter.

In accordance with the Italian DPR no. 445/2000, Italian the signature is not subject to authentication, this declaration must be accompanied by a photocopy of a identification document.

Rome, 09/05/2019