

***Curriculum  
vitae*****Annarita Fiorillo****Work Experience**

10.2017-09.2022: Fixed term researcher (RTDA, SS/D BIO/10) at University of Rome "Sapienza", Dept of Biochemical Sciences. Theme of research activity: "Structural and functional studies of proteins involved in cell metabolism".

6.2015-5.2016: Post-doctoral fellowship at University of Rome "Sapienza", Dept of Biochemical Sciences. Title of research project: "Sabotage the enemy: mechanisms of defence against oxidative stress as a target for the identification of new drugs against leishmaniasis"

12.2013-12.2014: Telethon fellowship at "Sapienza" University of Rome, Dept of Biochemical Sciences. Title of Research Project: "Isolated domains of aminoacyl tRNA synthetases as a novel therapeutic tool for mt tRNA mutation associated disease".

12.2010-11.2013: Post-doctoral fellowship at University of Rome "Sapienza", Dept. of Biochemical Sciences. Title of research project: "New mechanisms of microbial response to oxidative and nitrosative stress".

**Education**

11.2007-10.2010: Ph.D. in Biochemical Sciences and Neurosciences at University of l'Aquila, Dept of Biomedical Sciences and Technologies. Supervisors: Prof. A. Bozzi, Prof. A. Boffi.  
 Dissertation title: "Flavin-dependent polyamine oxidases: structural studies and biosensing applications", defended on April 12, 2011.  
 Research activities mainly carried out at the Department of Biochemical Sciences of Sapienza University and the Department of Biology of Roma Tre University.

30.5-8.6.2014: Participation in the 47<sup>th</sup> international crystallographic course "Structural Basis of Pharmacology: Deeper Understanding of Drug Discovery through Crystallography" held in Erice, Italy.

3-13.6.2010: Participation in the 42<sup>nd</sup> international crystallographic course "Structure and Function from Macromolecular Crystallography: Organization

	<p>in Space and Time" held in Erice, Italy.</p> <p><u>30.8-4.9.2009:</u> Participation in the International AIC School "Scattering Techniques: From Microscopic To Atomic Structures" held in Camerino, Italy.</p> <p><u>19.07.07:</u> Five years degree with honours (<i>Laurea cum laude</i>) in Chemistry, "Sapienza" University of Rome, with specialization in Physical-Chemistry. Title of the thesis: "X-ray structure of N-methyltryptophan oxidase: structural determinants for specificity". Tutor: Andrea Ilari.</p>
<b>Other qualifications</b>	<p><u>2021:</u> Member of the Academic Board of the PhD course in Biochemistry (cycle XXXVII) at Sapienza University.</p> <p><u>31.3.2017:</u> National Academic Qualification (ASN) as Associate Professor in biochemistry (settore concorsuale 05/E1, bando d.d. 1532/2016).</p>
<b>Research activities</b>	<p>Study of structure-function relationships in macromolecules aimed at deep characterization, biotechnological applications and drug development.</p> <p>Principal systems studied:</p> <ul style="list-style-type: none"> <li>- drug targets of <i>Leishmania</i> parasites: enzymes of the unique thiol-based redox metabolism and of the polyamine pathway;</li> <li>- sorcin, an important regulator of many calcium-dependent cell functions;</li> <li>- ferritin and Dps (DNA binding proteins from starved cells), cage-like proteins involved in the bacterial-DNA protection from oxidative damage and used as bioreactor to produce metal-based nanoparticles or as drug carriers;</li> <li>- 14-3-3 protein from <i>Giardia lamblia</i>, model for the multifunctional 14-3-3s, eukaryotic proteins involved in many cellular processes;</li> <li>- Periplasmic proteins involved in zinc trafficking in <i>Pseudomonas aeruginosa</i>.</li> </ul>
<b>Technical skills</b>	<p>Solid experience in X-ray crystallography and protein structure determination. Excellent knowledge of high throughput crystallization and crystal screening techniques. Extensive experience in data collection at synchrotron radiation sources in Europe (ESRF (FR), BESSY (DE), ELETTRA (IT), Diamond (UK)).</p> <p>Very good knowledge of the main molecular biology techniques for cloning and protein expression in <i>E. coli</i> and protein purification.</p> <p>Very good knowledge of spectroscopic techniques for macromolecules characterization (UV-vis, fluorescence, CD).</p>
<b>Computer skills</b>	<p>Very good knowledge of Linux/UNIX and Windows operating systems. Excellent knowledge of software packages and databases for data analysis, molecular structure solution and analysis, molecular graphics (Origin, QTIplot, Phenix, CCP4, PDB, PyMol, Chimera, Office, LibreOffice)</p>
<b>Awards and prizes</b>	<p><u>31.3.2017:</u> National Academic Qualification (ASN) as Associate Professor in</p>

biochemistry (settore concorsuale 05/E1, bando d.d. 1532/2016).

5.5.2016-today: Affiliation with IBPM-CNR (Istituto di Biologia e Patologia Molecolari del CNR) (Reference: provision of association of 5.5.2016, No. 0001001, and renewal).

11.03.2015: best research project prize at XVIII Telethon Meeting at Riva del Garda. Project title: “Isolated domains of aminoacyl tRNA synthetases as a novel therapeutic tool for mitochondrial tRNA mutation associated diseases”

20.10.2010: Poster prize at the 10<sup>th</sup> Sigma Aldrich Young Chemists Symposium (SAYCS 2010), session “NuovaChimica” (methodological developments). Poster title: “Determinanti strutturali per la sintesi di nanoparticelle di argento in una cavità proteica: il caso della ferritina di *Pyrococcus furiosus*”

Societies membership	Member of the AIC (Associazione Italiana di Cristallografia), Adhering Body of the IUCr (International Union of Crystallography).
Grants	<p><u>2017-today:</u> Investigator (co-propose) in the project “Scouting di nuovi target nel campo delle malattie rare, trascurate e della povertà” funded by the public-private consortium CNCCS (Collezione Nazionale di Composti Chimici e Centro Screening) dedicated to neglected diseases. The project involves CNR, ISS and IRBM Science Park of Pomezia (CUP code of the project: B56G15001140005). PI: Andrea Ilari. Total grant value: 150.000€.</p> <p><u>2020-2021:</u> investigator (co-propose) of the project “Fragment-based approach targeting the Trypanosomatid redox key enzyme Trypanothione reductase” selected for access to the program “XChem: Crystal-based fragment screening” at Diamond in UK (proposal ID: nolb25167), founded by the iNEXT consortium in the framework of the Horizon 2020 programme.</p> <p><u>2020:</u> principal investigator (coordinator) of the collaborative project “Structural biology for human health”, data collection beamtime and mission expenses awarded at ELETTRA synchrotron in Basovizza (TS) (proposal number: 20195202). The project involved researchers from Sapienza University, IBPM-CNR, IIT, University of Chieti and University of l’Aquila.</p> <p><u>2019:</u> investigator (co-propose) of the project “Innovative small molecules as inhibitors of ribonuclease H function of the HIV-1 reverse transcriptase enzyme”, internal research funds at Sapienza University (bando di ateneo 2018, Università Sapienza, delibera S.A. n. 50/19 del 12.02.2019). PI: prof. R. Costi. Grant value 13.000€.</p> <p><u>2018:</u> principal investigator (coordinator) of the collaborative project “Structural characterization of macromolecules related to human health”, data collection beamtime and mission expenses awarded at ELETTRA synchrotron in Basovizza (TS) (proposal number: 20180125). The project involved</p>

	<p>researchers from Sapienza University, IBPM-CNR, IIT, University of Chieti and University of l'Aquila.</p> <p><u>2014:</u> Grant to participate in the 47<sup>th</sup> School of Crystallography at Ettore Majorana Center.</p> <p><u>2010:</u> Grant to participate in the 42<sup>nd</sup> School of Crystallography at Ettore Majorana Center.</p> <p><u>2010:</u> young researchers grant to participate in the national meeting of the Division of Chemistry of Biological Systems of the Italian Society of Chemistry.</p> <p><u>2009:</u> young researchers grant to participate in the national meeting of the Italian Society of Chemistry.</p> <p><u>2009:</u> Grant to participate in the International AIC School.</p> <p><u>2007-2010:</u> scholarship for PhD in Biochemical Sciences.</p>
<b>Grant applications under evaluation</b>	<p>PI (research unit coordinator) of the project “ADock: Computational structure-based design of targeted therapeutic solutions against <i>Xylella fastidiosa</i>”, call PRIN 2020 (proposal ID PRIN 2020TJ8EB3). PI (project coordinator): M. Morelli. The project comprises units from IPSP-CNR, Sapienza University of Rome and Aldo Moro University of Bari. Amount of funding request: 660.027€.</p> <p>PI (project coordinator) of the project “Development of trypanocidal agents through target-based drug discovery”, Call 2020 – Two years research project reserved to under-45 years-old junior scientists funded by Istituto Pasteur Italia - Fondazione Cenci Bolognetti. The collaboration involves researchers from IBPM–CNR and University of Siena. Amount of funding request: 40.000€.</p> <p>Investigator (co-propose) of the project “Biocrystal facility: un hub di biologia strutturale a disposizione delle imprese per progettare nuovi farmaci contro malattie infettive endemiche ed epidemiche”, call POR-FESR regione Lazio (proposal ID A0375-2020-36569). The project involves researchers from Sapienza University and IBPM–CNR. Amount of funding request: 149.620 €.</p>
<b>Participation in national and international projects</b>	<p><u>2017-today:</u> Investigator (co-propose) of the project “Scouting di nuovi target nel campo delle malattie rare, trascurate e della povertà” funded by the public-private consortium CNCCS (Collezione Nazionale di Composti Chimici e Centro Screening) dedicated to neglected diseases. The project involves CNR, ISS and IRBM Science Park of Pomezia (CUP code of the project: B56G15001140005).</p> <p>PI: Andrea Ilari. Total grant value: 150.000€.</p>

11.2018-2020: Collaboration with XoNovo LTD (Israeli company), prof. K. Hensley at ARCOM (Arkansas) and Dr. Travis Danton at Washington State University concerning the characterization of the interaction of antineurodegenerative compounds with their putative target (non-disclosure agreement signed on 23.11.2018).

2020: principal investigator (coordinator) of the collaborative project "Structural biology for human health", data collection beamtime and mission expenses awarded at ELETTRA synchrotron in Basovizza (TS) (proposal number: 20195202). The project involved researchers from Sapienza University, IBPM-CNR, IIT, University of Chieti and University of l'Aquila.

2019: investigator (co-propose) of the project "Innovative small molecules as inhibitors of ribonuclease H function of the HIV-1 reverse transcriptase enzyme", internal research funds at Sapienza University (bando di ateneo 2018, Università Sapienza, delibera S.A. n. 50/19 del 12.02.2019).

PI: prof. R. Costi. Grant value 13.000€.

2018: principal investigator (coordinator) of the collaborative project "Structural characterization of macromolecules related to human health", data collection beamtime and mission expenses awarded at ELETTRA synchrotron in Basovizza (TS) (proposal number: 20180125). The project involved researchers from Sapienza University, IBPM-CNR, IIT, University of Chieti and University of l'Aquila.

01.12.2013-30.11.2014: investigator (fellowship) of the project "Isolated domains of aminoacyl tRNA synthetases as a novel therapeutic tool for mt-tRNA mutation associated disease" funded by Telethon Foundation (n. GGP13097 24/6/2013).

PI: prof. Giulia d'Amati. Grant value 218.500 €.

1.12.2010-30.11.2013: investigator (fellowship) of the project FIRB Futuro in Ricerca – 2008 (RBFR08F41U). Project title: "Nuovi meccanismi di risposta microbica allo stress ossidativo e nitrosativo".

PI: dott. A. Giuffré. Grant value 188.600€.

2009-2012: Participation in an international collaboration concerning the characterization of metal nanoparticles incorporated in protein cages, as suspension or 3D-ordered array. The collaboration included laboratories in Italy, UK, Canada, Germany and Bulgaria and produced a publication on JACS in 2010. The study required sessions of SAXS experiments at Bessy synchrotron in Berlin conducted by Dragomir Tatchev and Annarita Fiorillo. (refs: application ID 2011\_2\_110160, beamline 7T-MPW-SAXS, period 10-13.10.2011; application ID 2012\_1\_110928, beamline 7T-MPW-SAXS, period 18-20.5.2012).

<b>Oral communications at conferences</b>	<p><u>02.2020:</u> 1<sup>st</sup> AI C BMM Group Meeting, Fiesole (FI). Title of the seminar: "Structure of PA4063, a zinc binding protein from <i>Pseudomonas aeruginosa</i>".</p> <p><u>06.2018:</u> 3<sup>rd</sup> Joint AIC-SILS conference, Rome. Title of the seminar: "Unravelling the function of post-translational modifications in 14-3-3 from <i>Giardia duodenalis</i>".</p> <p><u>04.2012:</u> 6<sup>th</sup> meeting New Perspectives in Pharmaceutical Chemistry (6NPCF), Riccione, Italy. Title of the seminar: "Therapeutic targets in Leishmania: the crystal structures of the couple tryparedoxin/tryparedoxin peroxidase".</p> <p><u>07.2009:</u> XXIII National SCI Conference, Sorrento, Italy. Title of the seminar: "The crystal structure of the endo-β-1,3-glucanase from <i>Pyrococcus furiosus</i> reveals the structural basis of substrate recognition".</p>
<b>Other research related activities</b>	<p>Member of the Editorial Board of Frontiers journals as Review Editor in Structural Biology (specialty section of Frontiers in Molecular Biosciences and Frontiers in Cell and Developmental Biology).</p> <p>Reviewer for international journals (Scientific Report, Chemico-biological interactions, Journal of Parasitology Research).</p> <p>Staff member of the Biocrystal facility, a platform dedicated to the structural characterization of proteins and protein complexes (<a href="https://biocrystalfacility.it/en/biocrystal-facility/">https://biocrystalfacility.it/en/biocrystal-facility/</a>), included in the consortium Instruct-Italia.</p> <p>Member of the Organizing Committee of the conference "Cryo-electron microscopy in structural biology: paving the way towards precision biomedicine and biotechnology" held in Rome, 10<sup>th</sup> and 11<sup>th</sup> October 2019.</p>
<b>Teaching experience</b>	<p><u>2021:</u> Member of the Academic Board of the PhD degree in Biochemistry at Sapienza University.</p> <p><u>2017-today:</u> course title "Chimica e Propedeutica Biochimica", chemistry and biochemistry teaching within the degree courses in Medicine and Surgery "A", "B" and "C" at Sapienza University (SSD BIO/10).</p> <p><u>2017-2020:</u> course title "one-day Lab Safety course", good laboratory practices and safety training dedicated to first-year PhD students in Biochemistry at Sapienza University.</p> <p><u>2016:</u> video-lectures and exams preparation for distance learning of chemistry at Unitelma Sapienza in the framework of supportive teaching for STEM degrees at Sapienza (Offerta Formativa Aggiuntiva).</p>

Mentoring and tutoring	<p><u>2012-today</u>: Direct research training and supervision of undergraduate students Francesco di Chiaro (biological chemistry, master degree on January 2013), Alessandra Cipollone (biological chemistry, master degree on December 2016), Stefano Mocci (genetics and molecular biology, master degree on January 2019), Flavio Cennamo (genetics and molecular biology, under training); PhD students Gabriella Angiulli (PhD in Biochemistry on December 2015), Theo Battista (PhD in Biochemistry on December 2020), Aasia Bibi (PhD in February 2021).</p> <p><u>2016-today</u>: tutoring activity for distance learning of chemistry at Unitelma Sapienza in the framework of supportive teaching for STEM degrees at Sapienza (Offerta Formativa Aggiuntiva).</p> <p><u>2004-2006</u>: collaboration contract reserved to undergraduate students (150 hours/year) to support the teaching activity of the course of chemistry for medical degree (assistance in laboratory sessions and stoichiometry exercises) at the Department of Biochemical Sciences of Sapienza.</p>
Outreaching activities	<p><u>2020-21</u>: design of the educational path “Quando la forma è sostanza: introduzione allo studio strutturale delle proteine” dedicated to high school students, included in the PCTO catalogue of Sapienza University.</p> <p><u>2015-2016</u>: Seminars and workshops for vocational guidance and science education, sponsored by Telethon Foundation, dedicated to high school students in Rome.</p>

## Scientific production

Author of 26 crystallographic structures deposited in the Protein Data Bank.

Entries ID: 5MMX, 2VY0, 2X17, 3L1R, 3KPF, 3KU9, 3TUE, 4USL, 4ZQ0, 4U8D, 4UPG, 2UZZ, 4F7R, 3S9F, 4K1F, 507D, 4A25, 4ADW, 5M1R, 5M3U, 5M5J, 5M6Z, 6ER5, 6RB5, 5MRA, 5BY9.

## Papers under submission

IF

Fiorillo A\*, Battistoni A, Ammendola S, Secli V, Rinaldo S, Cutruzzolà F, Demitri N and Ilari A.

5.266

“Structure and metal binding properties of PA4063, a novel player in periplasm zinc trafficking of *Pseudomonas aeruginosa*”.

(\*corresponding author)

Currently under submission at *Acta Crystallographica D*.

## Full Publications List

(The 12 papers selected for evaluation are listed in the file "elenco titoli e pubblicazioni presentati")

\* Journal impact factor IF refers to publication year, available up to 2019. For papers published in 2020 and 2021, 2019 IF is indicated.

§ Paper citations as reported in Scopus.

			IF*	Cit <sup>§</sup>
38)	Battista T, Pascalella G, Staid DS, Colotti G, Rosati J, <b>Fiorillo A</b> , Casamassa A, Vescovi AL, Giabbai B, Semrau MS, Fanelli S, Storici P, Squitieri F, Morea V, Ilari A. "Known Drugs Identified by Structure-Based Virtual Screening Are Able to Bind Sigma-1 Receptor and Increase Growth of Huntington Disease Patient-Derived Cells". <i>Int J Mol Sci.</i> <b>2021</b> Jan 28;22(3):1293. doi: 10.3390/ijms22031293.	4.556	0	
37)	Chiarini V, <b>Fiorillo A</b> , Camerini S, Crescenzi M, Nakamura S, Battista T, Guidoni L, Colotti G, Ilari A. "Structural basis of ubiquitination mediated by protein splicing in early Eukarya". <i>Biochim Biophys Acta Gen Subj.</i> <b>2021</b> Jan 11;1865(5):129844. doi: 10.1016/j.bbagen.2021.129844.	3.422	0	
36)	Genovese I, Giamogante F, Barazzuolo L, Battista T, <b>Fiorillo A</b> , Vicario M, D'Alessandrini G, Cipriani R, Limatola C, Rossi D, Sorrentino V, Poser E, Mosca L, Squitieri F, Perluigi M, Arena A, van Petegem F, Tito C, Fazi F, Giorgi C, Calì T, Ilari A, Colotti G. "Sorcin is an early marker of neurodegeneration, Ca <sup>2+</sup> dysregulation and Endoplasmic Reticulum Stress associated to neurodegenerative diseases" <i>Cell Death Dis.</i> <b>2020</b> 11, 861. doi: 10.1038/s41419-020-03063-y	6.304	1	
35)	Genovese I, Carotti A, Ilari A, <b>Fiorillo A</b> , Battista T, Colotti G, Ivarsson Y. "Profiling calcium-dependent interactions between Sorcin and intrinsically disordered regions of human proteome". <i>Biochim Biophys Acta Gen Subj.</i> <b>2020</b> Aug;1864(8):129618. doi: 10.1016/j.bbagen.2020.129618	3.42	1	
34)	Battista T, Colotti G, Ilari A, <b>Fiorillo A</b> "Targeting trypanothione reductase, a key enzyme in the redox trypanosomatid metabolism, to develop new drugs against Leishmaniasis and Trypanosomiases" <i>Molecules</i> , <b>2020</b> Apr 21;25(8):1924. doi: 10.3390/molecules25081924.	3.267	8	
33)	Turcano L, Battista T, Torrente E, Missineo A, Alli C, Paonessa G, Colotti G, Harper S, <b>Fiorillo A</b> , Ilari A, Bresciani A "Spiro-containing derivatives show antiparasitic activity against <i>Trypanosoma brucei</i> through inhibition of the trypanothione reductase enzyme" <i>PLoS Negl Trop Dis.</i> <b>2020</b> , May 21;14(5):e0008339. doi: 10.1371/journal.pntd.0008339.	3.885	1	
32)	Battista T*, <b>Fiorillo A*</b> , Chiarini V, Genovese I, Ilari A, Colotti G. "Roles of Sorcin in Drug Resistance in Cancer: One Protein, Many Mechanisms, for a Novel Potential Anticancer Drug Target" (*Joint first authorship) <i>Cancers (Basel).</i> <b>2020</b> Apr 6;12(4). doi: 10.3390/cancers12040887	6.126	5	
31)	Colotti G, Saccoliti F, Gramiccia M, Di Muccio T, Prakash J, Yadav S, Dubey VK, Vistoli G, Battista T, Mocci S, <b>Fiorillo A</b> , Bibi A, Madia VN, Messore A, Costi R, Di Santo R, Ilari A. "Structure-guided approach to identify a novel class of anti-leishmaniasis diaryl sulfide compounds targeting the trypanothione metabolism". <i>Amino Acids.</i> <b>2020</b> Feb;52(2):247-259.	3.063	5	

- 30) Lalle M, **Fiorillo A.** 7.137 1  
 "The protein 14-3-3: A functionally versatile molecule in *Giardia duodenalis*".  
*Advances in Parasitology* 106, pp. 51-103 2019 doi: 10.1016/bs.apar.2019.08.002.
- 29) Turcano L, Torrente E, Missineo A, Andreini M, Gramiccia M, Di Muccio T, Genovese I, **Fiorillo A**, Harper S, Bresciani A, Colotti G, Ilari A. 4.487 15  
 "Identification and binding mode of a novel Leishmania Trypanothione reductase inhibitor from high throughput screening".  
*PLoS Negl Trop Dis.* 2018 Nov 26;12(11):e0006969. doi: 10.1371/journal.pntd.0006969
- 28) **Fiorillo A\*\***, Petrosino M\*, Ilari A, Pasquo A, Cipollone A, Maggi M, Chiaraluce R, Consalvi V\*. 2.776 6  
 "The phosphoglycerate kinase 1 variants found in carcinoma cells display different catalytic activity and conformational stability compared to the native enzyme".  
*PLoS One.* 2018 Jul 11;13(7):e0199191. doi: 10.1371/journal.pone.0199191.  
 (\*Joint first authorship; +co-corresponding author)
- 27) Ilari A, Genovese I, Fiorillo F, Battista T, De Ionna I, **Fiorillo A**, Colotti G. 4.396 9  
 "Toward a Drug Against All Kinetoplastids: From LeishBox to Specific and Potent Trypanothione Reductase Inhibitors".  
*Mol Pharm.* 2018 Aug 6;15(8):3069-3078. doi: 10.1021/acs.molpharmaceut.8b00185.
- 26) Ardin M, Howes BD, **Fiorillo A**, Falvo E, Sottini S, Rovai D, Lantieri M, Ilari A, Gatteschi D, Spina G, Chiancone E, Stefanini S, Fittipaldi M. 3.224 11  
 "Study of manganese binding to the ferroxidase centre of human H-type ferritin".  
*J Inorg Biochem.* 2018 May;182:103-112. doi: 10.1016/j.jinorgbio.2018.02.003
- 25) Colotti G, **Fiorillo A**, Ilari A. 2.214 9  
 "Metal-and metalloid-containing drugs for the treatment of trypanosomatid diseases".  
*Front Biosci (Landmark Ed).* 2018 Jan 1;23:954-966. Review.
- 24) Genovese I, **Fiorillo A**, Ilari A, Masciarelli S, Fazi F, Colotti G. 5.638 21  
 "Binding of doxorubicin to Sorcin impairs cell death and increases drug resistance in cancer cells".  
*Cell Death Dis.* 2017 Jul 20;8(7):e2950. doi: 10.1038/cddis.2017.342.
- 23) Brogi S\*, **Fiorillo A\***, Chemi G, Butini S, Lalle M, Ilari A, Gemma S, Campiani G. 4.816 20  
 "Structural characterization of *Giardia duodenalis* thioredoxin reductase (gTrxR) and computational analysis of its interaction with NBDHEX".  
*Eur J Med Chem.* 2017 Jul 28;135:479-490. doi: 10.1016/j.ejmech.2017.04.057  
 (\*Joint first authorship)
- 22) Morea V, Bidollari E, Colotti G, **Fiorillo A**, Rosati J, De Filippis L, Squitieri F, Ilari A. 2.906 10  
 "Glucose transportation in the brain and its impairment in Huntington disease: one more shade of the energetic metabolism failure?".  
*Amino Acids.* 2017 Jul;49(7):1147-1157. doi: 10.1007/s00726-017-2417-2
- 21) Saccoliti F, Angiulli G, Pupo G, Pescatori L, Madia VN, Messore A, Colotti G, **Fiorillo A**, Scipione L, Gramiccia M, Di Muccio T, Di Santo R, Costi R, Ilari A. 3.638 22  
 "Inhibition of *Leishmania infantum* trypanothione reductase by diaryl sulfide derivatives".  
*J Enzyme Inhib Med Chem.* 2017 Dec;32(1):304-310. doi: 10.1080/14756366.2016.1250755
- 20) Ilari A, **Fiorillo A**, Genovese I, Colotti G. 3.969 36  
 "An update on structural insights into the enzymes of the polyamine-trypanothione pathway":

- Targets for new drugs against leishmaniasis".  
*Future Med Chem.* 2017 Jan;9(1):61-77. doi: 10.4155/fmc-2016-0180.
- 19)** Perli E, **Fiorillo A**, Giordano C, Pisano A, Montanari A, Grazioli P, Campese AF, Di Micco P, Tuppen HA, Genovese I, Poser E, Prezioso C, Taylor RW, Morea V, Colotti G, D'Amati G. "Short peptides from leucyl-tRNA synthetase rescue disease-causing mitochondrial tRNA point mutations".  
*Hum Mol Genet.* 2016 Mar 1;25(5):903-15. doi: 10.1093/hmg/ddv619.
- 18)** Aschi M, Luzi C, **Fiorillo A**, Bozzi A. 2.248 7  
 "Folding Propensity of Anoplin: A Molecular Dynamics Study of the Native Peptide and Four Mutated Isoforms".  
*Biopolymers.* 2015 Dec;103(12):692-701. doi: 10.1002/bip.22714.
- 17)** Cau Y\*, **Fiorillo A\***, Mori M, Ilari A, Botta M, Lalle M. (\*Joint first authorship) 3.657 16  
 "Molecular Dynamics Simulations and Structural Analysis of Giardia duodenalis 14-3-3 Protein-Protein Interactions".  
*J Chem Inf Model.* 2015 Dec 28;55(12):2611-22. doi: 10.1021/acs.jcim.5b00452.  
 (\*Joint first authorship)
- 16)** Ilari A, **Fiorillo A**, Poser E, Laliovi VS, Sundell GN, Ivarsson Y, Genovese I, Colotti G. 5.228 25  
 "Structural basis of Sorcin-mediated calcium-dependent signal transduction".  
*Sci Rep.* 2015 Nov 18;5:16828. doi: 10.1038/srep16828.
- 15)** Brindisi M, Brogi S, Relitti N, Vallone A, Butini S, Gemma S, Novellino E, Colotti G, Angiulli G, Di Chiaro F, **Fiorillo A**, Ilari A, Campiani G. 5.228 40  
 "Structure-based discovery of the first non-covalent inhibitors of Leishmania major trypanothione peroxidase by high throughput docking".  
*Sci Rep.* 2015 May 7;5:9705. doi: 10.1038/srep09705.
- 14)** Ilari A, **Fiorillo A**, Baiocco P, Poser E, Angiulli G, Colotti G. 2.841 22  
 "Targeting polyamine metabolism for finding new drugs against leishmaniasis: a review."  
*Mini Rev Med Chem.* 2015;15(3):243-52.
- 13)** Colotti G, Poser E, **Fiorillo A**, Genovese I, Chiarini V, Ilari A. 2.416 34  
 "Sorcin, a calcium binding protein involved in the multidrug resistance mechanisms in cancer cells."  
*Molecules* 2014 Sep 5;19(9):13976-89. doi: 10.3390/molecules190913976
- 12)** **Fiorillo A**, di Marino D, Bertuccini L, Via A, Pozio E, Camerini S, Ilari A, Lalle M. 3.234 9  
 "The Crystal Structure of *Giardia duodenalis* 14-3-3 in the Apo Form: When Protein Post-Translational Modifications make the difference".  
*PLoS One* 2014 Mar 21;9(3):e92902. doi: 10.1371/journal.pone.0092902.
- 11)** Colotti G, Baiocco P, **Fiorillo A**, Boffi A, Poser E, Chiaro FD, Ilari A. 4.000 36  
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**Bibliometric indicators (source: Scopus)**

Publications:	38
h-index:	17
total citations:	731
average citations:	19.2
total IF:	149.387
average IF:	3.931

total IF (2011-2021): 132.210  
average IF (2011-2021): 3.888

Autorizzo al trattamento dei miei dati personali secondo il D.lgs 196/03. Dichiaro, inoltre, di essere consapevole della responsabilità penale prevista, dall'art. 46 del D.P.R. 445/2000, per le ipotesi di falsità in atti e dichiarazioni.

Roma, 13.4.2021

Annarita Fiorillo

