




PERSONAL INFORMATION



Giusy Tassone

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Sex Female | Date of birth 28/09/1989 | Nationality Italian

CURRENT POSITION

01/11/2021 – Present

Junior Researcher (RTD-a) CHIM/03 Chimica generale e inorganica 03/B1 Fondamenti delle scienze chimiche e sistemi inorganici

University of Siena - Department of Biotechnology, Chemistry and Pharmacy – Department of Excellence 2018 -2022. Via Aldo Moro, 2 53100 Siena (Italy)

- Research title: “Structural studies of proteins involved in human neurodegenerative diseases, antibiotic resistance and cancer”.

WORK EXPERIENCE

15/11/2018 – 31/10/2021

Research Fellow - CHIM/03 Chimica generale e inorganica 03/B1 Fondamenti delle scienze chimiche e sistemi inorganici

University of Siena - Department of Biotechnology, Chemistry and Pharmacy – Department of Excellence 2018 -2022. Via Aldo Moro, 2 53100 Siena (Italy)

- Research title: “Produzione, cristallizzazione e determinazione della struttura tramite cristallografia di Raggi-X di rodopsine naturali e mutanti e di loro complessi con nuovi cromofori”. Scientific Coordinator: Prof. Stefano MANGANI

1/07/2017 – 30/06/2018

Tutor for Students

University of Siena - Department of Biotechnology, Chemistry and Pharmacy Via Aldo Moro, 2 53100 Siena (Italy)

06/02/2015 – 31/10/2015

Junior Research Fellow

Lead Discovery Siena S.r.l. - Via Fiorentina, 1, 53100 Siena (Italy)

- Research title: “Structure-based approach to identify in silico small molecule inhibitors of *Leishmania braziliensis* Hsp90 N-terminal domain”. Scientific Coordinator: Prof. Maurizio BOTTA

EDUCATION AND TRAINING

1/11/2015 – 31/10/2018

PhD Student in Chemical and Pharmaceutical Sciences – Cycle XXXI (D.M.45/2013)

University of Siena - Department of Biotechnology, Chemistry and Pharmacy –
Department of Excellence 2018 -2022. Via Aldo Moro, 2 53100 Siena (Italy)

-Title of the project: “Crystallographic studies of proteins targets for the design of new inhibitor molecules”

Supervisor: Prof. Maurizio BOTTA

Co-supervisor: Prof. Stefano MANGANI

PhD thesis defence date: 15th March 2019

-Thesis title: “Structural studies on human and parasite enzymes related to disease”

1/02/2015 – 31/10/2015

2nd Level Master in “Drug Design and Synthesis”

University of Siena - Department of Biotechnology, Chemistry and Pharmacy Via Aldo
Moro, 2 53100 Siena (Italy)

Subject: Computational Chemistry, Medicinal Chemistry, Drug Design, Drug Discovery,
and Molecular Modeling

Master thesis defence date: 19th March 2019

-Thesis title: “Structure-Based Approach to Identify New Inhibitors of *Leishmania braziliensis* Heat Shock Protein 90”

June 2015

Qualifying examination to practice as pharmacist

University of Magna Graecia - Viale Europa, 88100 Catanzaro (Italy)

October 2008 – October 2014

Five-year degree (Laurea Specialistica a ciclo unico classe 14S) in Pharmaceutical Chemistry and Technology (CTF)

University of Siena - Department of Biotechnology, Chemistry and Pharmacy Via Aldo
Moro, 2 53100 Siena (Italy)

Supervisor: Prof. Maurizio BOTTA

Co-Supervisor: Prof. Mattia MORI

Degree mark: 107/110

Date: 31st October 2014

Thesis title: "Approccio Structure-Based per l'Identificazione *in Silico* di Possibili Inibitori della Proteina Hsp90 di *Leishmania braziliensis*"

September 2003 – July 2008

High School Diploma

Secondary School, Liceo Scientifico “Enzo Ferrari”

Corso Gregorio Staglianò, 268 - 88064 Chiaravalle Centrale – Catanzaro (Italy)

Marks: 100/100

TEACHING ACTIVITY

- 2/03/2022 **Tutor** for teaching lesson "Determinazione della struttura delle proteine e applicazione allo sviluppo dei farmaci" at the 3rd classroom of LSU and LES Piccolomini -Siena - Italy
- 26/02/2021 **Tutor** for teaching lesson "Determinazione della struttura delle proteine e applicazione allo sviluppo dei farmaci" at the 3rd classroom of Liceo Scientifico delle Scienze Applicate "Tito Sarrocchi" -Siena -Italy
- 22/09/2020 – 25/09/2020 **Trainer** at the School *From Gene to Protein Crystal Structure* – Session II, Elettra Synchrotron, Basovizza (Italy) - 22nd-25th September 2020 (virtual event). Oral presentation: Chromatographic techniques. Student Tutor during Lab sessions.
- 21/01/2020 – 24/01/2020 **Trainer** at the School *From Gene to Protein Crystal Structure* – Session I, Elettra Synchrotron, Basovizza (Italy) - 21st-24th January 2020. Student Tutor in the practical session on molecular graphic software. Oral presentation: Introduction to PyMOL: Molecular Visualization System.
- 1/07/2017 – 30/06/2018 **Tutor** for teaching aid (120 hours), didactic-integrative, propaedeutic, and remedial activities for students on Pharmacy, CTF, Chemical Sciences, and Chemistry degree courses - University of Siena - Department of Biotechnology, Chemistry and Pharmacy Via Aldo Moro, 2 53100 Siena (Italy) – 1st July 2017 – 30th June 2018

TUTORING ACTIVITY

- 2022 **Co-Supervisor** of the PhD student Beatrice De Bonis at the PhD school in Chemical and Pharmaceutical Sciences of the University of Siena. Project ongoing.
- 2022 **Co-Supervisor** of the degree thesis of Martina D'Auria, Master's degree in Chemistry - University of Siena. Thesis ongoing.
- 2021 **Co-Supervisor** of the degree thesis of Stella Napi, Bachelor's degree in Scienze Biologiche - University of Siena. Thesis ongoing.
- 2021 **Co-Supervisor** of the degree thesis of Alessia Lorenzini, Bachelor's degree in Scienze Biologiche - University of Siena. Thesis title: "Clonaggio, espressione e purificazione di glutaminil ciclastasi umana (hQC), target validato per il trattamento di malattie neurodegenerative come la malattia di Alzheimer".
- 2019-2020 **Co-Supervisor** of the degree thesis of Virginia Simari, Five-year degree in Chimica e Tecnologia Farmaceutiche (CTF) - University of Siena. Thesis title: "Progettazione e sintesi di derivati MBHA potenzialmente utili per la PEGilazione di proteine".
- 2019-2020 **Co-Supervisor** of the degree thesis of Romualdo Varricchio, Five-year degree in Chimica e Tecnologia Farmaceutiche (CTF) - University of Siena. Thesis title: "The chicken liver bile acid binding protein as an optogenetic tool".
- 2019 **Co-Supervisor** of the degree thesis of Domenico Giofrè, Bachelor's degree in Chemical Sciences - University of Siena. Thesis title: "X-ray crystallographic characterization of a rhodopsin protein mimic in complex with potential photoactive chromophores".

PERSONAL SKILLS

Technical skills and competences

- **Molecular Biology**

Gene cloning (recombinant DNA technology) and gene manipulation through site-directed mutagenesis. Protein expression, purification and characterization (CD, UV/VIS spectroscopy, mass spectrometry).

- **Protein crystallography**

Protein crystallization. Usage of beamlines at the main European synchrotron facilities such as Diamond Light Source (Didcot, UK) and European Synchrotron Radiation Facilities (Grenoble, France).

- **Molecular Modeling**

In silico molecular screening, homology modeling, structure-based virtual screening.

Computer skills

- **Operating systems**

Windows: Excellent knowledge of these operating systems and their applications (Microsoft Office Packages)

Linux: Basic knowledge of the Linux operating system Ubuntu and its applications

- **Scientific software**

Schrödinger suite (Glide, LigPrep, Prime, QikProp), GOLD, OpenEye, CCP4 biocrystallography suite (CCP4 package), Phenix, and molecular graphic software (e.g. CCP4mg, Coot and PyMOL), SnapGene, Unicorn, GraphPad Prism, ChemDraw, Avogadro.

Language skills

Mother tongue(s)

Other language(s)

Italian

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken Interaction	Spoken production	
English*	B2	C1	B2	B2	C1
French	A2	A2	A2	A2	A2

* Cambridge PET (Preliminary English Test) certification

Social skills

-Excellent team working skills and experimental planning activities.

-Student tutoring during regular courses and laboratory activities.

Organisational/managerial skills

-Experience in organization of congresses of national and international level.

-Participation to national and international events with oral and poster communications.

-Chairman in national and international events

-Co-supervisor of bachelor and master's theses at the University of Siena

-Contribution to the drafting of national and international projects

-Reviewer for MDPI journals (Life, Land, IJERPH, Medicines, Processes, Toxics)

Driving licence

B with own car

ORAL PRESENTATIONS

(Conferences, seminars, workshops)

Date	14 th -23 rd September 2021
Place	XXVII National Congress of the Italian Chemistry Society (SCI) (online event)
Title	Evidence of amino-thiadiazoles as innovative inhibitors of human glutaminyl cyclase, validated

target for neurodegenerative disorders (Book of Abstract page CSB OR015)

Date 28th-30th **September 2020**
Place #GCI@HOME The first online event of the Italian young crystallographers (online event)
Title Identification of Phosphate-Containing Compounds as New Inhibitors of 14-3-3/c-Abl Protein-Protein Interaction (Book of Abstract page 17)

Date 20th-21st **February 2020**
Place 1st Italian Crystallographic Association Biological MacroMolecules Group Meeting (Associazione Italiana di Cristallografia), Fiesole – Firenze (Italy)
Title Structural characterization of a synthetic mimic of the Photoactive Yellow Protein (Book of Abstract page 23)

Date 11th-13th **September 2019**
Place National Congress of the Division of Chemistry of Biological Systems (Italian Chemical Society, SCI), Siena (Italy).
Title Structural characterization of a synthetic mimic of the Photoactive Yellow Protein (Book of Abstract page 20)

Date 4th-5th **October 2018**
Place National Congress of the Toscana, Umbria, Marche, Abruzzo - TUMA (Italian Chemical Society), Pisa (Italy)
Title Probing the role of Arg97 in Heat shock protein 90 from the parasite *Leishmania braziliensis* through site-directed mutagenesis on the human counterpart (Book of Abstract page 30)

26th-28th September 2018
 National Congress of the Division of Chemistry of Biological Systems (Italian Chemical Society, SCI), Caserta (Italy)
 Probing the role of Arg97 in Heat shock protein 90 from the parasite *Leishmania braziliensis* through site-directed mutagenesis on the human counterpart (Book of Abstract page 30)

ABSTRACT AND POSTER (Conferences, seminars, workshops)

Date 14th-23rd **September 2021**
Place XXVII National Congress of the Italian Chemistry Society (SCI) (online event)
Title Identification of Phosphate-Containing Compounds as New Inhibitors of 14-3-3/c-Abl Protein-Protein Interaction (Book of Abstract page CSB PO019) - [Short video and Poster](#)

Date 4th-7th **September 2019**
Place Fifth Meeting of the Italian (AIC) and Spanish Crystallographic (GE3C) Associations (MISCA V), Naples (Italy)
Title Structural characterization of a synthetic mimic of the Photoactive Yellow Protein (Book of Abstract page 54) - [Abstract](#)

Date 13th-15th **November 2017**
Place Merck Young Chemists Symposium (MYCS), Rimini (Italy)
Title Towards the crystal structure determination of the protein Hsp90 N-terminal domain from *Leishmania braziliensis* and *Homo sapiens sapiens* in complex with new in silico identified inhibitors (Proceedings of the Merck Young Chemists Symposium XVII edition, page 117) -

Short talk and Poster

- Date** 26th-28th September 2018
Place National Congress of the Division of Chemistry of Biological Systems (Italian Chemical Society), Caserta (Italy)
Title Amino-thiadiazole as innovative inhibitors of human glutaminy cyclase, a validated target towards Alzheimer disease (Book of Abstract page 14) - [Abstract](#)
- Date** 25th-28th June 2018
Place 3rd Joint Italian Crystallographic Association (AIC) and Italian Synchrotron Radiation Society (SILS) Conference. Roma (Italy)
Title Probing the role of Arg97 in the parasite *Leishmania braziliensis* Hsp90 through site directed mutagenesis on the human counterpart (Book of Abstract page 116) - [Poster](#)
- Date** 25th-28th June 2018.
Place 3rd Joint Italian Crystallographic Association (AIC) and Italian Synchrotron Radiation Society (SILS) Conference. Roma (Italy)
Title Amino-thiadiazole as innovative inhibitors of human glutaminy cyclase for the treatment of Alzheimer disease (Book of Abstract page 76) - [Abstract](#)
- Date** 26th-29th June 2017
Place XLVI Meeting of Italian Crystallographic Association (AIC), Perugia (Italy)
Title Towards the crystal structure determination of the protein Hsp90 N-terminal domain from *Leishmania braziliensis* and Homo sapiens sapiens in complex with new in silico identified inhibitors (Book of Abstract page 72) - [Poster](#)
- Date** 5th- 6th May 2016
Place COST Action 1307, Porto (Portugal)
Title New Promising Targets vs Neglected Tropical Diseases (*Leishmaniasis*, *Trypanosomiasis*). Poster at Meeting of chemotherapy towards disease caused by endoparasites (Book of abstract page 24) - [Poster](#)
- Date** 17th- 22nd May 2015
Place 10th European Workshop in Drug Design -EWDD, Siena (Italy)
Title A structure-based approach to identify small molecule inhibitors of *Leishmania braziliensis* Hsp90 (Book of Abstract page 93) - [Poster](#)

**PARTICIPATION
to SCHOOLS, WORKSHOPS, and
CONGRESSES**

- Date** 29th November - 10th December 2021
Place Diamond-CCP4 Data Collection & Structure Solution Workshop (online event)
- Date** January – March 2021
Place Eurofunding - II Edizione (2020DU0034) (online event)

Date	10th February 2020
Place	Structural Biology Italian Network: Instruct-ITALIA, CNR - Centro Congressi dell'Area di Ricerca di Firenze. Sesto Fiorentino – Firenze (Italy)
Date	4th-5th July 2019
Place	PSB Symposium "Macromolecules in action", Grenoble (France).
Date	12th-15th February 2019
Place	Scuola Nazionale di Chimica Bioinorganica per dottorandi 2019, Roma (Italy).
Date	15th-16th June 2016
Place	Synergy Meeting of Drug Development for Neglected Parasitic Diseases, Modena (Italy)
Date	19th-21st May 2017
Place	Training School “Antiparasitic drug design and screening in silico”, Siena (Italy)
Date	21st-26th May 2017
Place	11 th European Workshop in Drug Design - EWDD, Siena (Italy)
Date	20th-24th May 2018
Place	7 th European Workshop in Drug Design and Synthesis – EWDSy, Siena (Italy),

ORGANIZATION OF MEETINGS, CONFERENCES, WORKSHOPS

23 rd -24 th May 2022	3 rd Italian Crystallographic Association Biological MacroMolecules Group Meeting (Associazione Italiana di Cristallografia), Fiesole – Firenze (Italy)
Role	Organizing Committee
16 th February 2022	Global Women’s Breakfast 2022 – Empowering Diversity in Science “Gender equality in the workplace” – Siena 16 th February 2022 (virtual event).
Role	Local Organizing Committee
July 2021	ScienceS@Si 2021 - Antibody Drug Conjugates for overcoming bacterial resistance – University of Siena - Department of Biotechnology, Chemistry and Pharmacy
Role	Scientific and Organizing Committee
9 th February 2021	Global Women’s Breakfast 2021 – Empowering Diversity in Science “Work-life Balance: armonia tra vita private e professionale” – Siena 9 th February 2021 (virtual event).
Role	Local Organizing Committee
22 nd -25 th September 2020	From Gene to Protein Crystal Structure School – Session II, Elettra Synchrotron, Basovizza (Italy) 22 nd -25 th September 2020 (virtual event).
Role	Scientific and Organizing Committee
21 st -24 th January 2020	From Gene to Protein Crystal Structure School – Session I, Elettra Synchrotron, Basovizza (Italy)

Role	Scientific and Organizing Committee
11 th -13 th September 2019	National Congress of the Division of Chemistry of Biological Systems (Italian Chemical Society, SCI), Siena (Italy), Siena (Italy)
Role	Local Organizing Committee
17 th - 22 nd May 2015	10 th European Workshop in Drug Design -EWDD, Siena (Italy), 17 th - 22 nd May 2015.
Role	Local Organizing Committee

CHAIRMAN

23 rd -24 th May 2022	Chairman at the 3 rd Italian Crystallographic Association Biological MacroMolecules Group Meeting (Associazione Italiana di Cristallografia), Fiesole – Firenze (Italy)
6 th -8 th September 2021	Chairman at the XLIX Congresso AIC – symposium Hot topics in macromolecular crystallography (virtual event)
22 nd -25 th September 2020	Chairman at the School <i>From Gene to Protein Crystal Structure</i> – Session II, Elettra Synchrotron, Basovizza (Italy) (virtual event).
21 st -24 th January 2020	Chairman at the School <i>From Gene to Protein Crystal Structure</i> – Session I, Elettra Synchrotron, Basovizza (Italy)

AWARDS

2021	Scholarship to attend the XXVII National Congress of the Italian Chemistry Society (SCI) (online event)
2019	Scholarship to attend the National Congress of the Division of Chemistry of Biological Systems (Italian Chemical Society, SCI), Siena (Italy)

MEMBERSHIPS

April 2018 – Present
November 2017 – Present

Italian Crystallographic Association (AIC), <http://www.cristallografia.org>
Italian Chemical Society (SCI), <https://www.soc.chim.it>

STRUCTURES DEPOSITED IN THE PROTEIN DATA BANK

(PDB)

6TM7 (doi: 10.2210/pdb6TM7/pdb), **6TLG** (doi: 10.2210/pdb6TLG/pdb), **6TLF** (doi:

PDB codes

10.2210/pdb6TLF/pdb), **6TBX** (doi: 10.2210/pdb6TBX/pdb), **6GQU** (doi: 10.2210/pdb6GQU/pdb), **6GR1** (doi: 10.2210/pdb6GR1/pdb), **6GR3** (doi: 10.2210/pdb6GR3/pdb), **6GR5** (doi: 10.2210/pdb6GR5/pdb), **6GR4** (doi: 10.2210/pdb6GR4/pdb), **6GPO** (doi: 10.2210/pdb6GPO/pdb), **6GP8** (doi: 10.2210/pdb6GP8/pdb), **6GPF** (doi: 10.2210/pdb6GPF/pdb), **6GPH** (doi: 10.2210/pdb6GPH/pdb), **6GPP** (doi: 10.2210/pdb6GPP/pdb), **6GP4** (doi: 10.2210/pdb6GP4/pdb), **6GPR** (doi: 10.2210/pdb6GPR/pdb), **6GQR** (doi:

10.2210/pdb6GQR/pdb), **6GPY** (doi: 10.2210/pdb6GPY/pdb), **6GPT** (doi: 10.2210/pdb6GPT/pdb), **6GQ6** (doi: 10.2210/pdb6GQ6/pdb), **6GPW** (doi: 10.2210/pdb6GPW/pdb), **6ZW2** (doi: 10.2210/pdb6ZW2/pdb), **7OWY** (doi: 10.2210/pdb7OWY/pdb), **7O6D** (doi: 10.2210/pdb7O6D/pdb), **7O6C** (doi: 10.2210/pdb7O6C/pdb), **7O6A** (doi: 10.2210/pdb7O6A/pdb), **7O69** (doi: 10.2210/pdb7O69/pdb), **7O68** (doi: 10.2210/pdb7O68/pdb), **7O67** (doi: 10.2210/pdb7O67/pdb), **7O66** (doi: 10.2210/pdb7O66/pdb), **7O65** (doi: 10.2210/pdb7O65/pdb), **7O64** (doi: 10.2210/pdb7O64/pdb), **7O63** (doi: 10.2210/pdb7O63/pdb), **7OVH** (doi: 10.2210/pdb7OVH/pdb), **7OVF** (doi: 10.2210/pdb7OVF/pdb), **7OVE** (doi: 10.2210/pdb7OVE/pdb)

LIST OF PUBLICATION

Papers in peer reviewed journals

- 16) **Tassone G**, Paolino M, Pozzi C, Reale A, Salvoini L, Giorgi G, Orlandini M, Galvagni F, Mangani S, Yang X, Carlotti B, Ortica F, Latterini L, Olivucci M, Cappelli A. Xanthopsin-Like Systems via Site-Specific Click-Functionalization of a Retinoic Acid Binding Protein. *Chembiochem*. 2022 Jan 5;23(1):e202100449. doi: 10.1002/cbic.202100449.
- 15) Legru A, Verdirosa F, Hernandez JF, **Tassone G**, Sannio F, Benvenuti M, Conde PAG, Bossis, Thomas CA, Crowder MW, Dillenberger M, Becker K, Pozzi C, Mangani S, Docquier JD, Gavara L. 1,2,4-Triazole-3-thione compounds with a 4-ethyl alkyl/aryl sulfide substituent are broad-spectrum metallo- β -lactamase inhibitors with re-sensitization activity. *Eur J Med Chem*. 2021 Dec 15;226:113873. doi: 10.1016/j.ejmech.2021.113873.
- 14) Ciambellotti S, Pratesi A, **Tassone G**, Turano P, Mangani S, Pozzi C. Iron Binding in the Ferroxidase Site of Human Mitochondrial Ferritin. *Chemistry*. 2021 Oct 21;27(59):14690-14701. doi: 10.1002/chem.202102270. Epub 2021 Sep 15.
- 13) **Tassone G**, Landi G, Linciano P, Francesconi V, Tonelli M, Tagliazucchi L, Costi MP, Mangani S, Pozzi C. Evidence of Pyrimethamine and Cycloguanil Analogues as Dual Inhibitors of *Trypanosoma brucei* Pteridine Reductase and Dihydrofolate Reductase. *Pharmaceuticals*. 2021 Jun 30;14(7):636. doi: 10.3390/ph14070636.
- 12) Pozzi C, Santucci M, Marverti G, D'Arca D, Tagliazucchi L, Ferrari S, Gozzi G, Losi L, **Tassone G**, Mangani S, Ponterini G, Costi MP. Structural Bases for the Synergistic Inhibition of Human Thymidylate Synthase and Ovarian Cancer Cell Growth by Drug Combinations. *Cancers*. 2021 Apr 24;13(9):2061. doi: 10.3390/cancers13092061.
- 11) **Tassone G**, Orlandini M, Olivucci M, Pozzi C. Validation of Recombinant Chicken Liver Bile Acid Binding Protein as a Tool for Cholic Acid Hosting. *Biomolecules*. 2021 Apr 27;11(5):645. doi: 10.3390/biom11050645.
- 10) Pozzi C, Santucci M, Marverti G, D'Arca D, Tagliazucchi L, Ferrari S, Gozzi G, Losi L, **Tassone G**, Mangani S, Ponterini G, Costi MP. Structural bases for the synergistic inhibition of human thymidylate synthase and cancer cell growth by drugs combinations. *Cancers*. 2021 Apr 24;13(9):2061. doi: 10.3390/cancers13092061.
- 9) **Tassone G**, Kola A, Valensin D, Pozzi C. Dynamic Interplay between Copper Toxicity and Mitochondrial Dysfunction in Alzheimer's Disease. *Life* 2021 Apr; 11(5), 386; doi.org/10.3390/life11050386.

- 8) Davies DT, Leiris S, Zalacain M, Sprynski N, Castandet J, Bousquet J, Lozano C, Llanos A, Alibaud L, Vasa S, Pattipati R, Valige R, Kummari B, Pothukanuri S, De Piano C, Morrissey I, Holden K, Warn P, Marcoccia F, Benvenuti M, Pozzi C, **Tassone G**, Mangani S, Docquier JD, Pallin D, Elliot R, Lemonnier M, Everett M. Discovery of ANT3310, a Novel Broad-Spectrum Serine β -Lactamase Inhibitor of the Diazabicyclooctane Class, Which Strongly Potentiates Meropenem Activity against Carbapenem-Resistant Enterobacteriales and *Acinetobacter baumannii*. *J Med Chem.* **2020** Dec 24;63(24):15802-15820. doi: 10.1021/acs.jmedchem.0c01535.
- 7) Landi G, Linciano P, **Tassone G**, Costi MP, Mangani S, Pozzi C. High-resolution crystal structure of *Trypanosoma brucei* pteridine reductase 1 in complex with an innovative tricyclic-based inhibitor. *Acta Crystallogr D Struct Biol.* **2020** Jun 1;76(Pt 6):558-564. doi: 10.1107/S2059798320004891.
- 6) Iralde-Lorente L, **Tassone G**^s, Clementi L, Franci L, Munier CC, Cau Y, Mori M, Chiariello M, Angelucci A, Perry MWD, Pozzi C, Mangani S, Botta M. Identification of Phosphate-Containing Compounds as New Inhibitors of 14-3-3/c-Abl Protein-Protein Interaction. *ACS Chem Biol.* **2020** Apr 17;15(4):1026-1035. doi: 10.1021/acscchembio.0c00039.
- 5) Batista FAH, Ramos SL Jr, **Tassone G**, Leitão A, Montanari CA, Botta M, Mori M, Borges JC. Discovery of small molecule inhibitors of *Leishmania braziliensis* Hsp90 chaperone. *J Enzyme Inhib Med Chem.* **2020** Dec;35(1):639-649. doi: 10.1080/14756366.2020.1726342.
- 4) Pozzi C, Lopresti L, **Tassone G**, Mangani S. Targeting Methyltransferases in Human Pathogenic Bacteria: Insights into Thymidylate Synthase (TS) and Flavin-Dependent TS (FDTS). *Molecules.* **2019** Apr 25;24(8). pii: E1638. doi: 10.3390/molecules24081638.
- 3) Pozzi C, Ferrari S, Luciani R, **Tassone G**, Costi MP, Mangani S. Structural Comparison of *Enterococcus faecalis* and Human Thymidylate Synthase Complexes with the Substrate dUMP and Its Analogue FdUMP Provides Hints about Enzyme Conformational Variabilities. *Molecules.* **2019** Mar 31;24(7). pii: E1257. doi: 10.3390/molecules24071257.
- 2) Iralde-Lorente L, Cau Y, Clementi L, Franci L, **Tassone G**, Valensin D, Mori M, Angelucci A, Chiariello M, Botta M. Chemically stable inhibitors of 14-3-3 protein-protein interactions derived from BV02. *J Enzyme Inhib Med Chem.* **2019** Dec;34(1):657-664. doi: 10.1080/14756366.2019.1574779.
- 1) **Tassone G**, Mangani S, Botta M, Pozzi C. Probing the role of Arg97 in Heat shock protein 90 N-terminal domain from the parasite *Leishmania braziliensis* through site-directed mutagenesis on the human counterpart. *Biochim Biophys Acta Proteins Proteom.* **2018** Sep 21. pii: S1570-9639(18)30153-5. doi: 10.1016/j.bbapap.2018.09.005.

Book chapters

- 1) Pozzi C, **Tassone G**, Mangani S. X-ray Crystallography Contributions to Drug Discovery Against Parasite. *Annual Reports in Medicinal Chemistry Available online 20 September 2018* <https://doi.org/10.1016/bs.armc.2018.08.005>

I hereby authorize the processing of my personal information under D.Lgs 196/03. I declare that everything state in the present curriculum vitae and in the relevant attachments is true in accordance with D.P.R 445/200