

PERSONAL INFORMATION

Giusy Tassone

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CURRENT POSITION

01/10/2024 – to present

Tenure-track Assistant Professor CHEM-03/A (L. 240/2010 Art. 24 – a) Chimica generale e inorganica
University of Siena - Department of Biotechnology, Chemistry and Pharmacy, Via Aldo Moro, 2 53100 Siena (Italy)

01/11/2021 – 30/09/2024

Junior Researcher (RTD-a) (L. 240/2010 Art. 24 – 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, Via Aldo Moro, 2 53100 Siena (Italy)

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, Via Aldo Moro, 2 53100 Siena (Italy)

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)
- Project title: “Bando di Tutorato Progetti di Dipartimento anno 2017 del DBCF” – 120 hours

06/02/2015 – 31/10/2015

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

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, Via Aldo Moro, 2 53100 Siena (Italy)
- 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)
- 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)
- September 2003 – July 2008 **High School Diploma**
Secondary School, Liceo Scientifico “Enzo Ferrari”
Corso Gregorio Staglianò, 268 - 88064 Chiaravalle Centrale – Catanzaro (Italy)

TEACHING ACTIVITY

- a.a. 2024-2025 **Course instructor** in PhD Program in Chemical and Pharmaceutical Science – *Course title “Journey into Structural Biology: An Interactive Course from Crystals to Structure”* (8 h lessons -1 ECTS credit).
- a.a. 2024-2025 **Professor** of the course “Didattica della Chimica Generale ed Inorganica” (24 hours) – Department of Social, Political and Cognitive Sciences, University of Siena. Degree course in Scienze della formazione primaria (Corso di Laurea in Scienze della formazione primaria, LM-85 bis).
- a.a. 2024-2025 **Professor** of the course “Chimica Generale ed Inorganica” (48 hours) – Department of Life Sciences, University of Siena. Degree course in Scienze Biologiche (Corso di Laurea in Scienze Biologiche, L-13).
- a.a. 2023-2024 **Professor** of the course “Chimica Generale ed Inorganica” (48 hours) – Department of Life Sciences, University of Siena. Degree course in Scienze Biologiche (Corso di Laurea in Scienze Biologiche, L-13).
- a.a. 2022-2023 **Professor** of the course “Chimica Generale ed Inorganica” (48 hours) – Department of Life Sciences, University of Siena. Degree course in Scienze Biologiche (Corso di Laurea in Scienze Biologiche, L-13).
- a.a. 2021-2022 **Professor** of the laboratory course “Chimica Analitica I” (48 hours). Department of Biotechnology, Chemistry and Pharmacy, University of Siena. Degree course in Scienze Chimiche (Corso di Laurea in Scienze Chimiche, L-27).

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)

TUTORING ACTIVITY

2022-to present

Co-Supervisor of the PhD student Beatrice De Bonis at the PhD school in Chemical and Pharmaceutical Sciences of the University of Siena. Project title: *“Produzione, caratterizzazione e ottimizzazione di enzimi ingegnerizzati per applicazione in sistemi di fotosintesi artificiale”*. Project ongoing.

2023

Supervisor of the degree thesis of Aurora Di Stavolo, Five-year degree in Chimica e Tecnologia Farmaceutiche (CTF) - University of Siena. Thesis title: *“Studi strutturali della proteina umana 14-3-3 ζ , bersaglio validato per il trattamento del cancro e delle malattie neurodegenerative”*.

2022

Co-Supervisor of the degree thesis of Martina D’Auria, Master’s degree in Chemistry - University of Siena. Thesis title: *“Structural studies on human 14-3-3 ζ in homo and heterodimeric form”*.

2022

Co-Supervisor of the degree thesis of Rebecca Finetti, Bachelor’s degree in Scienze Chimiche - University of Siena. Thesis title: *“Caratterizzazione strutturale mediante diffrazione di raggi X degli stati manganese e cobalto-derivati del metallo enzima 5'-deossinucleotidasi di Leishmania donovani”*.

2021

Co-Supervisor of the degree thesis of Stella Napi, Bachelor’s degree in Scienze Biologiche - University of Siena. Thesis title: *“Clonaggio, mutazione, espressione e purificazione di 14-3-3 zeta umana (h14-3-3 ζ), target validato per il trattamento del cancro”*.

2019-2020

Co-Supervisor of the degree thesis of Nicolò Mercorelli, Bachelor’s degree in Scienze Chimiche - University of Siena. Thesis title: *“Approccio multidisciplinare alla produzione di proteine fotosensibili e sintesi di motori molecolari biomimetici”*.

2019-2020

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 ciclasi umana (hQC), target validato per il trattamento di malattie neurodegenerative come la malattia di Alzheimer”*.

2019

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

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 Gioffrè, Bachelor’s degree in Scienze Chimiche - University of Siena. Thesis title: *“X-ray crystallographic characterization of a rhodopsin protein mimic in complex with potential photoactive chromophores”*.

PERSONAL SKILLS

Language skills
Mother tongue(s)
Other language(s)

Italian

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken Interaction	Spoken production	
B2	C1	B2	B2	C1
A2	A2	A2	A2	A2

English*
French

* Cambridge PET (Preliminary English Test) certification

EDITORIAL ACTIVITY

- 2024 Guest editor for Pharmaceuticals (IF: 4.6, ISSN 1424-8247). Special Issue "Progress in the Discovery and Development of Heat Shock Protein 90 (Hsp90) Inhibitors" *ongoing*
- 2022 Guest editor for Antibiotics (ISSN 2079-6382). Special Issue "Recent advances in the Development of Beta-Lactamase Inhibitors"
- 2022 Topic Coordinator of the Special Issue "Modulators of 14-3-3 Protein-Protein Interactions involved in Cancer Pathology" for Frontiers in Molecular Biosciences (ISSN 2296889X)

PARTICIPATION TO PROJECTS

- December 2024 to present Funding for New Frontiers (F-NF) research projects 2024 - Piano per lo Sviluppo della Ricerca 2024 - *Inhibiting 14-3-3/BAX complex Interactions for Cancer Therapy – InhiBIT – Principal Investigator*
- 2024 to present PRIN: Progetti di ricerca di rilevante interesse nazionale – Bando 2022 - Prot. 2022K3AY2K *Working group member WPI. Group 2*
- 2023 to present - F-RUNNERS UP, fondo per incentivare la progettazione competitiva premiando i docenti Unisi "secondi classificati" su bandi nazionali e internazionali
PRIN- Bando 2022 PNRR *Integrated molecular Dynamics-sErs-mAchine learning approach as an innovative and rapid tool for the extensive screening of Hsp70 Allosteric modulators-IDEA – Principal Investigator*
- 2023 to present - COST Action 2022-2026 CA21111 "One Health drugs against parasitic vector borne diseases in Europe and beyond (OneHealthdrugs)" *Working group member (WG1, WG2, WG5, and WG6)*
- 2022 to present - PNRR CN00000041 – "National Center for Gene Therapy and Drugsbased on RNA Technology" – CUP B63C2200061 0006 a valere sulla Missione 4 Componente 2 (M4C2) – investimento 1.4. Centri Nazionali [CN3] del Piano Nazionale di Ripresa e Resilienza (PNRR) finanziato dall'Unione Europea "Next Generation EU". 1° novembre 2022 – 31 ottobre 2025. *Participant of Spoke 6 - Task 6.2.2. Development of Photo-modulable RNA aptamers. By exploiting RNA chemical functionalization/complexation with suitable chromophores we aim to use light for monitoring and regulating the interaction of an aptamer with its biological target.*

- 2019-2021 Project of the Department of Excellence 2018-2022: *Development and application of QM/MM technologies for the design of light-responsive proteins or protein-mimics based on the rhodopsin architecture. Participant as research fellow*
- 2017 to present - Diamond Light Source (DLS) BAG proposals MX11690, MX15831 and MX21741, and MX29907
- 2017 to present - ESRF BAG proposals MX1841 and MX1949.

INSTITUTIONAL ROLES

- 2023 to present Board Member 2023-2026 - USiena Alumni – Coordinator Play with us area – University of Siena
- 2022 to present Member of the Orientation and Tutoring Committee at the Department of Biotechnology, Chemistry and Pharmacy, University of Siena, Italy
- 2021 to present Member of the Faculty Committee at the Department of Biotechnology, Chemistry and Pharmacy, University of Siena, Italy
- 2020-2021 Representative of Research Fellows at the Department of Biotechnology, Chemistry and Pharmacy, University of Siena, Italy
- 2017-2019 Representative of PhD Candidates at the Department of Biotechnology, Chemistry and Pharmacy, University of Siena, Italy

MEMBERSHIP ACTIVITIES

- January 2024 to present Member of the Instrumentation and Calculation Commission of Italian Crystallographic Association
- January 2024 to present Member of the Social Committee of the Division of Chemistry of Biological Systems (Italian Chemical Society),

MEMBERSHIPS

- April 2018 – Present Italian Crystallographic Association (AIC), <http://www.cristallografia.org>
- November 2017 – Present Italian Chemical Society (SCI), <https://www.soc.chim.it>

LIST OF PUBLICATION

Papers in peer reviewed journals

28) Paolino M, **Tassone GS**, Governa P, Saletti M, Lami M, Carletti R, Sacchetta F, Pozzi C, Orlandini M, Manetti F, Olivucci M, Cappelli A Morita-Baylis-Hillman Adduct Chemistry as a Tool for the Design of Lysine-Targeted Covalent Ligands. ACS Med Chem Lett. 2025 Feb

28;16(3):397-405. doi: 10.1021/acsmedchemlett.4c00479. eCollection 2025 Mar 13.

27) **Tassone G**, Maramai S, Paolino M, Lamponi S, Poggialini F, Dreassi E, Petricci E, Alcaro S, Pozzi C, Romeo I. Exploiting the bile acid binding protein as transporter of a Cholic Acid/Mirin bioconjugate for potential applications in liver cancer therapy *Sci Rep*. 2024 Sep 28;14(1):22514. doi: 10.1038/s41598-024-73636-w.

26) **Tassone G**, Pozzi C, Mangani S, Metal Ion Binding to Human Glutaminyl Cyclase: A Structural Perspective *Int J Mol Sci*. 2024 Jul 29;25(15):8279. doi: 10.3390/ijms25158279.

25) Linciano P, Pozzi C, **Tassone G**, Landi G, Mangani S, Santucci M, Luciani R, Ferrari S, Santarem N, Tagliazucchi L, Cordeiro-da-Silva A, Tonelli M, Tondi D, Bertarini L, Gul S, Witt G, Moraes CB, Costantino L, Costi MP. The discovery of aryl-2-nitroethyl triamino pyrimidines as anti-*Trypanosoma brucei* agents. *Eur J Med Chem*. 2024 Jan 15;264:115946. doi: 10.1016/j.ejmech.2023.115946. Epub 2023 Nov 11.

24) Saletti M, Paolino M, Venditti J, Bonechi C, Giuliani G, Lamponi S, **Tassone G**, Boccia A, Botta C, Blancafort L, Poggialini F, Vagaggini C, Cappelli A. A Facile Access to Green Fluorescent Albumin Derivatives. *Chembiochem*. 2024 Feb 18:e202300862. doi: 10.1002/cbic.202300862. (IF 3.2)

23) Pozzi C, Vanet A, Francesconi V, Tagliazucchi L, **Tassone G**, Venturelli A, Spyraakis F, Mazzorana M, Costi MP, Tonelli M.J. Antitarget, Anti-SARS-CoV-2 Leads, Drugs, and the Drug Discovery-Genetics Alliance Perspective. *J Med Chem*. 2023 Mar 23;66(6):3664-3702. doi: 10.1021/acs.jmedchem.2c01229.

22) Barbera S, Raucci L, **Tassone G**, Tinti L, Prischi F, Santucci A, Mongiat M, Tosi GM, Galvagni F, Dimberg A, Pozzi C, Orlandini M. Dimerization of the C-type lectin-like receptor CD93 promotes its binding to Multimerin-2 in endothelial cells. *Int J Biol Macromol*. 2023 Jan 1;224:453-464. doi: 10.1016/j.ijbiomac.2022.10.136.

21) Legru A, Verdirosa F, Vo-Hoang Y, **Tassone G**, Vascon F, Thomas CA, Sannio F, Corsica G, Benvenuti M, Feller G, Coulon R, Marcoccia F, Devente SR, Bouajila E, Piveteau C, Leroux F, Deprez-Poulain R, Deprez B, Licznar-Fajardo P, Crowder MV, Cendron L, Pozzi C, Mangani S, Docquier JD, Hernandez JF, Gavara L. Optimization of 1,2,4-Triazole-3-thiones toward Broad-Spectrum Metallo- β -lactamase Inhibitors Showing Potent Synergistic Activity on VIM- and NDM-1-Producing Clinical Isolates. *J Med Chem*. 2022 Dec 22;65(24):16392-16419. doi: 10.1021/acs.jmedchem.2c01257.

20) **Tassone G**, Mazzorana M, Pozzi C. Structural Basis of Parasitic HSP90 ATPase Inhibition by Small Molecules. *Pharmaceuticals (Basel)*. 2022 Oct 29;15(11):1341. doi: 10.3390/ph15111341.

19) Palomba T, **Tassone G**, Vacca C, Bartalucci M, Valeri A, Pozzi C, Cross S, Siragusa L, Desantis J. Exploiting ELIOT for Scaffold-Repurposing Opportunities: TRIM33 a Possible Novel E3 Ligase to Expand the Toolbox for PROTAC Design. *Int J Mol Sci*. 2022 Nov 17;23(22):14218. doi: 10.3390/ijms232214218.

18) Scorzelli F, **Tassone G**, Padula D, Zacchè M. Mechanistic Aspects of the Asymmetric Transfer Hydrogenation in the Manufacture of Noradrenaline. *Eur. J. Org. Chem*. 2022 Sep 36:e202200490 doi.org/10.1002/ejoc.202200490.

17) **Tassone G**, Mazzorana M, Mangani S, Petricci E, Cini E, Giannini G, Pozzi C, Maramai

S. Structural Characterization of Human Heat Shock Protein 90 N-Terminal Domain and Its Variants K112R and K112A in Complex with a Potent 1,2,3-Triazole-Based Inhibitor. *Int J Mol Sci.* 2022 Aug 21;23(16):9458. doi: 10.3390/ijms23169458.

16) Verdirosa F, Gavara L, Sevaille L, **Tassone G**, Corsica G, Legru A, Feller G, Chelini G, Mercuri PS, Tanfoni S, Sannio F, Benvenuti M, Cerboni G, De Luca F, Bouajila E, Vo Hoang Y, Licznar-Fajardo P, Galleni M, Pozzi C, Mangani S, Docquier JD, Hernandez JF. 1,2,4-Triazole-3-Thione Analogues with a 2-Ethylbenzoic Acid at Position 4 as VIM-type Metallo- β -Lactamase Inhibitors. *ChemMedChem.* 2022 Apr 5;17(7):e202100699. doi: 10.1002/cmdc.202100699.

15) **Tassone G**, Paolino M, Pozzi C, Reale A, Salvini 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.

14) Legru A, Verdirosa F, Hernandez JF, **Tassone G**, Sannio F, Benvenuti M, Conde PAG, Bossis, Thomas CA, Crowder MW, Dillenberg 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.

13) 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.

12) **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.

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 Enterobacterales 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[§]**, 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. (IF 4.0)

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

2) **Tassone G**, Carradori S, Maramai S, D'Agostino I. Catechol-O-methyltransferase (COMT). *Metalloenzymes: From Bench to Bedside*, 2023, pp. 63–81. <https://doi.org/10.1016/B978-0-12-823974-2.00029-2>.

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>

§ = shared first authorship

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.