

## PERSONAL INFORMATION

Gioena Pampalone

JOB APPLIED FOR  
POSITION  
PREFERRED JOB  
STUDIES APPLIED FOR  
PERSONAL STATEMENT

**13/02/2019** Master's Degree in Pharmaceutical Biotechnology at the University of Perugia with 110/110 cum laude. Thesis title: Focus on L- and D-Cycloserine as pharmacological chaperones for alanine: glyoxylate aminotransferase: implications for Primary Hyperoxaluria Type 1

**27/04/2016** Bachelor's Degree in Biotechnology at the University of Perugia with a grade of 98/110. Thesis title: Recent developments and new opportunities in the therapeutic treatment of Amyotrophic Lateral Sclerosis (ALS)

**05/07/2012** Scientific high school degree at P. Ruggeri High School of Marsala

## WORK EXPERIENCE

Replace with dates (from - to)

**04/2023-to date** Postdoctoral fellowship at the Department of Medicine and Surgery Physiology and Biochemistry section- University of Perugia

**10/2019- 01/2023** PhD student in Systems Biology in Immune and Infectious Diseases at the Department of Medicine and Surgery - Physiology and Biochemistry section- University of Perugia

**23-24/06/2023** OHF 14th International Hyperoxaluria Workshop, Perugia (Participant).

**18-19/05/2023** BIOPROSYS, Napoli (Oral presentation-short talk).

**01/12/2022** TUM, I RICERCATORI BIOCHIMICI TUM DI NUOVO INSIEME: CONFRONTO E CONDIVISIONE DELLE TEMATICHE SIB FRA TOSCANA, UMBRIA E MARCHE, Perugia (Poster).

**29/09-01/10/2022** International Hyperoxaluria Conference- Oxal Europe (Participant).

**08-15/07/2022** 25th IUBMB 46th FEBS 15th PABMB- *The Biochemistry Global Summit Lisbon* as speaker (Oral presentation-short talk).

**18-20/05/2022** Participation "Proteine 2022" (Poster).

**25-26/11/2021** Participation "XIX Convention d'autunno dei ricercatori FC" (Participant).

**23-24/09/2021** 61° SIB 2021 Congress Virtual Edition (Participant).

**03-08/07/2021** Participation "FEBS 2021, The 45TH FEBS Congress – Molecule of Life: Towards New Horizons" as speaker (Oral presentation-short talk).

**20-21/05/2021** WebPro- Proteins on the Web 2021. 1st online meeting of the Group

“Proteine” of the Italian Society for Biochemistry and Molecular Biology (Participant).

**01/12/2020** Partecipazione “Oxaleurope Meeting” (Participant).

**19-20/11/2020** Partecipazione “XVIII Convention d’autunno dei ricercatori FC” (Participant).

**11-06-2019** Partecipazione “Di nuovo TUM: mappatura interregionale delle tematiche SIB tra Toscana, Umbria e Marche” as speaker (Oral presentation-short talk).

**03-2019/09-2019** Autonomous Collaboration Agreement at the Department of Experimental Medicine - Section of Biosciences and Medical Embryology, Laboratory of Biochemistry and Cell and Molecular Biology

**03-2018/02-2019** Internship at the Department of Experimental Medicine - Section of Biosciences and Medical Embryology, Laboratory of Biochemistry and Cell and Molecular Biology - University of Perugia

**10-2015** Internship at the Department of Experimental Medicine – Pharmacology section

EDUCATION AND TRAINING

Replace with dates (from - to)

**13/02/2019** Master's Degree in Pharmaceutical Biotechnology at the University of Perugia with 110/110 cum laude. Thesis title: Focus on L- and D-Cycloserine as pharmacological chaperones for alanine: glyoxylate aminotransferase: implications for Primary Hyperoxaluria Type 1

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**05/07/2012** Scientific high school degree at P. Ruggeri High School of Marsala

PERSONAL SKILLS

Mother tongue(s) Italian

OTHER LANGUAGE(S) English

Communication skills

- Good communication skills gained through my experiences

Job-related skills

- Knowledge of spectrophotometric and fluorimetric analysis techniques
- Knowledge of the techniques of expression and purification of recombinant

proteins

- FPLC AND HPLC techniques
- Knowledge of the study techniques of enzymatic activity
- Western Blotting analysis
- Knowledge of the basic techniques of Molecular Biology
- Basic knowledge of structural modeling techniques

Digital skills

- Good command of office suite (word processor, spread sheet, presentation software)
- Good command of data analyses software (Graphpad Prism, Origin Pro)
- Good command of Docking analyses software (Autodock Vina, Pymol)
- Good command of photo editing software (GIMP 2.10.24, Inkscape)

Driving licence B

ADDITIONAL INFORMATION

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## Publications

**Cycloserine enantiomers are reversible inhibitors of human alanine:glyoxylate aminotransferase: implications for Primary Hyperoxaluria type 1.** Dindo M, Grottelli S, Annunziato G, Giardina G, Pieroni M, Pampalone G, Faccini A, Cutruzzolà F, Laurino P, Costantino G, Cellini B, *Biochem J.* 2019; 476(24):3751-3768. PMID: 31794008

**Crystal structure of *Aspergillus fumigatus* AroH, an aromatic amino acid aminotransferase** Sharon Spizzichino, Gioena Pampalone, Mirco Dindo, Agostino Bruno, Luigina Romani, Francesca Cutruzzolà, Teresa Zelante, Marco Pieroni, Barbara Cellini, Giorgio Giardina. *Proteins.* 2021 PMID: 34495558

**Role of misfolding in rare enzymatic deficits and use of pharmacological chaperones as therapeutic approach.** Gioena Pampalone, Silvia Grottelli, Leonardo Gatticchi, Emilia Maria Lombardi, Ilaria Bellezza, Barbara Cellini. *Front Biosci (Landmark Ed).* 2021 Dec 30;26(12):1627-1642. PMID: 34994177

**Identification of Human Alanine-Glyoxylate Aminotransferase Ligands as Pharmacological Chaperones for Variants Associated with Primary Hyperoxaluria Type 1.**

Gioena Pampalone, Silvia Grottelli, Giannamaria Annunziato, Marco Pieroni, Mirco Dindo, Francesca Ferlenghi, Gabriele Costantino, Barbara Cellini. *J Med Chem.* 2022 Jul 28;65(14):9718-9734. PMID: 35830169

**CRISPR/Cas9-mediated knock-out of AGXT1 in HepG2 cells as a new in vitro model of Primary Hyperoxaluria Type 1.** Leonardo Gatticchi, Silvia Grottelli, Giulia Ambrosini, Gioena Pampalone, Ottavia Gualtieri, Ilaria Dando, Ilaria Bellezza, Barbara Cellini. *Biochimie.* 2022 Aug 11;S0300-9084(22)00209-7. PMID: 35964771

**Biochemical and cellular effects of a novel missense mutation of the AGXT gene associated with Primary Hyperoxaluria Type 1.** Gatticchi L, Dindo M, Pampalone G, Conter C, Cellini B, Takayama T. *Biochem Biophys Res Commun.* 2023 Feb 19;645:118-123. doi: 10.1016/j.bbrc.2023.01.042 PMID: 36682331.

**Dual inhibitors of human and fungal sphingosine-1-phosphate lyase as antimicrobial strategy in cystic fibrosis**

G. Pampalone, C. Costantini, M. Pariano, E. Camaioni, L. Macchioni, R. Galarini, F. Paoletti, T. Zelante, E. Costanzi, M. Davidescu, C. Stincardini, M. Bellet, J. Saba, S. Giovagnoli, L. Romani, B. Cellini

## Abstracts

**Identification of pharmacological chaperones for human alanine:glyoxylate aminotransferase as therapeutic strategy for Primary Hyperoxaluria type I.** G. Pampalone, S. Grottelli, G. Annunziato, M. Pieroni, M. Dindo, G. Costantino, B. Cellini.

**Intrinsically disordered regions of alanine:glyoxylate aminotransferase shape its fitness and function.** M. Dindo, G. Giardina, S. Pascarelli, D. Chiasserini, S. Grottelli, G. Uechi, C. Costantini, G. Pampalone, S. Spizzichino, P. Laurino, B. Cellini.

## Posters

Leonardo Gatticchi, Silvia Grottelli, Gioena Pampalone, Ottavia Gualtieri, Ilaria Bellezza, and Barbara Cellini. "CRISPR/Cas9-mediated knock-out of AGXT1 in HepG2 cells as a new in vitro model of Primary Hyperoxaluria Type I". SIB 2021

C. Costantini, M. Pariano, G. Pampalone, T. Zelante, L. Macchioni, R. Galarini, E. Costanzi, M. Bellet, S. Giovagnoli, J. Saba, B. Cellini, L. Romani. "Dual targeting of host and fungal sphingosine-1-phosphate lyase as antifungal strategy in cystic fibrosis". (NACFC)

G. Pampalone, C. Costantini, M. Pariano, E. Camaioni, L. Macchioni, R. Galarini, F. Paoletti, T. Zelante, E. Costanzi, M. Davidescu, C. Stincardini, M. Bellet, J. Saba, S. Giovagnoli, L. Romani,

**B. Cellini. “Dual targeting of host and fungal sphingosine-1-phosphate lyase as antifungal strategy in cystic fibrosis.”**