



Ignazio Fiduccia

Nationality: Italian **Date of birth:** 19/10/1992 **Gender:** Male

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📍 **Home:** Via Giuseppe Pagano 44, 90035 Marineo (Italy)

WORK EXPERIENCE

🏛 **University of Palermo** – Palermo, Italy

City: Palermo | Country: Italy

Postdoctoral Fellow

[08/04/2025 – Current]

- Conducting research on TRID-based therapeutic strategies for inherited retinal diseases caused by nonsense mutations
- Managing experimental workflows, analyzing results, and contributing to scientific reporting

EDUCATION AND TRAINING

Ph.D. in Molecular and Biomolecular Science

University of Palermo [01/11/2021 – 31/10/2024]

City: Palermo | Country: Italy | Thesis: A study on molecules promoting the readthrough of nonsense mutations (TRIDs)

- **Organic and Analytical Chemistry:** Expertise in the synthesis of organic compounds and proficiency in advanced analytical techniques, including HPLC-MS.
- **Cell Culture Techniques:** Skilled in maintaining and handling cell lines, including preparation, treatment, and experimental applications in laboratory settings.
- **Biological Assays and Laboratory Techniques:** Experienced in applying a variety of laboratory methodologies for the evaluation of cellular responses and experimental outcomes.
- **Project Management and Research Planning:** Competent in designing and executing experimental workflows, analyzing results, and ensuring accuracy and reproducibility in research activities.
- **Data Analysis and Reporting:** Competence in processing complex datasets and presenting findings clearly in written reports and oral presentations.
- **Interdisciplinary Collaboration:** Demonstrated ability to work effectively in multidisciplinary teams, contributing to the achievement of project goals in academic and research environments.

Visiting Ph.D. Student

Institute for Bioengineering of Catalonia (IBEC) [01/02/2024 – 29/07/2024]

City: Barcelona | Country: Spain

Visiting Ph.D. Student

University of Vienna [20/08/2023 – 27/08/2023]

City: Vienna | Country: Austria

Pharmacist license

University of Palermo [2021]

City: Palermo | Country: Italy

Master's degree in Pharmacy

University of Palermo [26/07/2021]

City: Palermo | Country: Italy | Final grade: 110/110 | Thesis: Studio del metabolismo epatico di eterocicli biologicamente attivi

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B2 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

SKILLS

Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access / Microsoft Office (Word, Excel, Powerpoint, Outlook, OneNote) / Zotero Citations Software / Video Conferencing (Zoom, Teams, Skype, Webex) - Advanced / MestReNova, MarvinSketch and ChemDraw / Agilent HPLC Software / Software professionali (Open view, NIS-element, Image studio, GraphPad Prism, Axon pClamp) / Basic knowledge of softwares for image analysis (ImageJ, Gwyddion)

PUBLICATIONS

[2025]

A precision medicine approach to primary immunodeficiency disease: Ataluren strikes nonsense mutations once again

Lentini, L., Perriera, R., Corrao, F., Melfi, R., Tutone, M., Fiduccia, I., et al. (2025). A Precision Medicine Approach to Primary Immunodeficiency Disease: Ataluren Strikes Nonsense Mutations Once Again. *Mol Ther*, S1525-0016(25)00220-5

[2024]

Promoting readthrough of nonsense mutations in CF mouse model: Biodistribution and efficacy of NV848 in rescuing CFTR protein expression

Fiduccia I., Corrao F., Zizzo M.G., Perriera R., et al. (2024). Promoting readthrough of nonsense mutations in CF mouse model: Biodistribution and efficacy of NV848 in rescuing CFTR protein expression. *MOLECULAR THERAPY*, 32(12), 4514-4523

[2023]

Readthrough Approach Using NV Translational Readthrough-Inducing Drugs (TRIDs): A Study of the Possible Off-Target Effects on Natural Termination Codons (NTCs) on TP53 and Housekeeping Gene Expression

Perriera, R., et al. (2023). Readthrough Approach Using NV Translational Readthrough-Inducing Drugs (TRIDs): A Study of the Possible Off-Target Effects on Natural Termination Codons (NTCs) on TP53 and Housekeeping Gene Expression. *IJMS*, 24(20), 1-15

[2023]

Investigating the inhibition of FTSJ1 a tryptophan tRNA-specific 2'-O-methyltransferase by NV TRIDs, as a mechanism of readthrough in nonsense mutated CFTR

Carollo P. S., Tutone M., Culletta G., Fiduccia I., Corrao F., et al. (2023). Investigating the inhibition of FTSJ1 a tryptophan tRNA-specific 2'-O-methyltransferase by NV TRIDs, as a mechanism of readthrough in nonsense mutated CFTR. *IJMS*, 24

[2023]

Shaping 1,2,4-Triazolium Fluorinated Ionic Liquid Crystals

Rizzo C., Fiduccia I., Buscemi S., Palumbo Piccionello A., Pace A., Pibiri I. (2023). Shaping 1,2,4-Triazolium Fluorinated Ionic Liquid Crystals. APPLIED SCIENCES, 13(5), 1-12

[2022]

Nonsense codons suppression. An acute toxicity study of three optimized TRIDs in murine model, safety and tolerability evaluation

Corrao, F., Zizzo, M.G., Tutone, M., Melfi, R., Fiduccia, I., Carollo, P.S., et al. (2022). Nonsense codons suppression. An acute toxicity study of three optimized TRIDs in murine model, safety and tolerability evaluation. Biomed Pharmacother, 156, 1-10

DRIVING LICENCE

Driving Licence: A1

Driving Licence: B

CONFERENCES & SEMINARS

[18/09/2024 – 20/09/2024] Padua

An innovative approach of personalized medicine in cystic fibrosis: an in vivo study with NV914 molecule as translational readthrough inducing drug

Poster communication presented at the **FISV (Italian Federation of Life Sciences) Conference**, Padua, Italy, 18–20 September 2024.

Authors: I. Cruciata, R. Varrica, E. Vitale, I. Fiduccia, D. Ricci, M. Tutone, M. Menditto, R. Melfi, I. Pibiri, L. Lentini, A. Pace, M.G. Zizzo.

[18/09/2024 – 20/09/2024] Padua

A precision medicine approach for nonsense mutations: study of novel small molecules for the rescue of p53 protein expression

Poster communication presented at the **FISV (Italian Federation of Life Sciences) Conference**, Padua, Italy, 18–20 September 2024.

Authors: E. Vitale, M. Menditto, D. Ricci, P. S. Carollo, I. Fiduccia, R. Varrica, I. Cruciata, R. Melfi, A. Pace, I. Pibiri, B. S. Cooperman, L. Lentini.

[13/06/2024 – 15/06/2024] Palermo

Rescuing nonsense in cancer: recovering p53 tumor suppressor gene expression by translational readthrough inducing drugs (TRIDs)

Poster communication presented at the **Heal Italia Conference**, Palermo, Italy, 13–15 June 2024.

Authors: L. Lentini, M. Menditto, D. Ricci, P. S. Carollo, E. Vitale, I. Fiduccia, I. Cruciata, R. Melfi, I. Pibiri.

[13/06/2024 – 15/06/2024] Palermo

NV914 molecule as translational readthrough inducing drug: a study on cystic fibrosis G542X stop murine model

Poster communication presented at the **Heal Italia Conference**, Palermo, Italy, 13–15 June 2024.

Authors: I. Cruciata, R. Varrica, E. Vitale, I. Fiduccia, D. Ricci, M. Tutone, R. Melfi, I. Pibiri, L. Lentini, M.G. Zizzo.

[13/06/2024 – 15/06/2024] Palermo

Translational readthrough approach to fight nonsense in cancer: design and synthesis of new TRIDs rescuing P53

Poster communication presented at the **Heal Italia Conference**, Palermo, Italy, 13–15 June 2024.

Authors: D. Ricci, I. Cruciata, G. Culletta, M. Tutone, I. Fiduccia, C. Rizzo, E. Vitale, P.S. Carollo, R. Melfi, M.G. Zizzo, L. Lentini, I. Pibiri.

[07/06/2024]

Potential translational readthrough inducing drugs: an optimized design and synthesis of new chemical scaffolds

Poster communication presented at the **ViSYOChem24 Conference**, 7 June 2024.

Authors: D. Ricci, G. Culletta, M. Tutone, I. Fiduccia, E. Vitale, C. Rizzo, P. S. Carollo, R. Melfi, M. G. Zizzo, L. Lentini, I. Pibiri.

[10/2023] Palermo

Unlocking Cellular Secrets: Charting Proteomic Frontiers in LRBA Deficiency Through the Lens of Readthrough Promoters

Oral communication presented at the **SCISiCa Conference**, Palermo, Italy, October 2023.

Authors: I. Fiduccia, D. Ricci, F. Corrao, E. Vitale, R. Melfi, A. Pace, M. Tutone, M.G. Zizzo, L. Lentini, I. Pibiri, Michel Moutschen, Samuel Meier-Menches.

[12/01/2023] Palermo

Translational Readthrough Inducing Drugs (TRIDs): qualitative and quantitative determination of a PTC124 derivative in mice models

Poster communication presented at the **First STeBICeF Young Researcher Workshop**, Palermo, Italy, 12 January 2023.

Authors: I. Fiduccia, F. Corrao, R. Perriera, A. Di Leonardo, R. Melfi, A. Pace, M. Tutone, M. G. Zizzo, L. Lentini, I. Pibiri.

[24/10/2022]

Translational Readthrough Inducing Drugs (TRIDs): a study of biodistribution evaluation in mice models

Oral communication presented at the **ViSYOChem22 Conference**, 24 October 2022.

Authors: I. Fiduccia, F. Corrao, R. Perriera, A. Di Leonardo, R. Melfi, A. Pace, M. Tutone, M.G. Zizzo, L. Lentini, I. Pibiri.

[14/09/2022 – 16/09/2022]

Nonsense suppression in human cystic fibrosis organoids (CFTRW1282X/dele2,3) by a new translational readthrough inducing drug (NV848) combined to CFTR modulators

Poster communication presented at the **XVI FISV CONGRESS**, 14–16 September 2022.

Authors: R. Perriera, I. Fiduccia, F. Corrao, P.S. Carollo, R. Rizzo, F. Vermeulen, A. S. Ramalho, I. Pibiri, A. Pace, L. Lentini.

[08/06/2022] Rotterdam

Translational readthrough inducing drugs: a study of toxicity in mice models and in vitro safety validation of the specific readthrough process

Poster communication presented at the **45th European Cystic Fibrosis Conference**, Rotterdam, Netherlands, 8 June 2022.

Authors: F. Corrao, R. Perriera, L. Lentini, M. G. Zizzo, R. Melfi, P. S. Carollo, I. Fiduccia, A. Pace, M. Tutone, A. Di Leonardo, and I. Pibiri.