UNIVERSITÀ DEL PIEMONTE ORIENTALE
DIPARTIMENTO DI SCIENZE DEL FARMACO

Curriculum Vitae
Riccardo Miggiano, PhD

Date of birth: June 25th, 1986
Nationality: Italian

ORCID: 0000-0002-2159-3314

EDUCATION AND TRAINING

-*November 2010 - January 2014*: PhD in Pharmaceutical and Food Biotechnologies. Department of Pharmaceutical Sciences - University of Piemonte Orientale.
PhD thesis: Biochemical and structural studies of Mycobacterium tuberculosis O6-methylguanine methyltransferase and mutated variants. Supervisor: Prof. Menico Rizzi.

-*October 2005 - July 2010*: Master's degree in Pharmaceutical Chemistry and Technology. Faculty of Pharmacy - University of Parma.
Master's degree thesis: Analysis of the interaction of the O-acetylserine sulfhydrylase enzyme with peptide inhibitors of pharmaceutical interest. Supervisor: Prof. Andrea Mozzarelli.

ACADEMIC QUALIFICATION

-*18 november 2020* - National Scientific Qualification (ASN) as Associate Professor in Biochemistry (05/E1, SSD BIO/10).

-*29 september 2023* - National Scientific Qualification (ASN) as Full Professor in Biochemistry (05/E1, SSD BIO/10).

PROFESSIONAL AND RESEARCH EXPERIENCE

-*July 2021 - present*: Researcher RtdB at Biochemistry and Structural Biology Unit of the Department of Pharmaceutical Sciences - University of Piemonte Orientale.

-*January 2019 - July 2021*: Researcher RtdA at Biochemistry and Structural Biology Unit of the Department of Pharmaceutical Sciences - University of Piemonte Orientale.

-*December 2013 - January 2019*: Post-Doc Researcher (Assegnista) at Biochemistry and Structural Biology Unit of the Department of Pharmaceutical Sciences - University of Piemonte Orientale.

-*November 2014 - present*: Co-founder and Researcher at IXTAL srl, Spin-off of the Department of Pharmaceutical Sciences - University of Piemonte Orientale operating as Contract Research Organization (CRO) in the field of protein science. (www.ixtal.it)

ACADEMIC COMMITMENTS AND EDITORIAL ACTIVITY

-Member of the Scientific Committee for the PhD Course in "Chemistry and Biology"- from XXXVI cycle to present. University of Piemonte Orientale.

-Member of the Group for Quality Insurance for the master degree in Pharmaceutical Biotechnology. University of Piemonte Orientale.

-Co-editor for MDPI special issue "Mycobacterium tuberculosis Pathogenesis, Infection Prevention and Treatment" (https://www.mdpi.com/journal/pathogens/special_issues/Mycobacterium_tuberculosis).

-Member of the Editorial Board of Structural Biology (specialty section of Frontiers in Molecular Biosciences and Frontiers in Cell and Developmental Biology) as Review Editor.

-Member of Italian Society of Biochemistry and Molecular Biology (SIB). Designated by the SIB board as coordinator of the representative committee of the Youth Section of the SIB.

-Member of the Junior Section Board of the Federation of European Biochemical Societies (FEBS).

VISITING ACADEMIC POSITIONS

-*23 april-24 may 2012*: Visiting researcher at the Institute of Protein Biochemistry, CNR - Naples. Supervisor: Dr. Maria Ciaramella.

-*15 april-18 may 2013*: Visiting researcher at the Institute of Protein Biochemistry, CNR - Naples. Supervisor: Dr. Maria Ciaramella.
-*01 july-01 august 2013*: Visiting researcher at "Centre de Regulaciò Genòmica", Barcelona (SPAIN). Supervisors: Prof. Luis Serrano and Dr. Carlo Carolis.

-*30 june-30 august 2018:* Visiting researcher at "City University Of New York", New York (USA).
Supervisor: Prof. David Jeruzalmi

-6 may-13 may 2021: Visiting Professor in the course "Biochemical Engineering" for a total of 8 hours of lessons at the Department of Biochemistry and Molecular Biology of University Miguel Hernández of Elche (UMH) in the contest of Erasmus+ Program founded by European Commission.

TEACHING ACTIVITIES AND PhD SUPERVISION

October 2020 - Present: Teaching of "Protein Science" (80 hours). Master degree in Pharmaceutical Biotechnology.

October 2020 - October 2021: Teaching of "Structural Biochemistry and principles of Enzymology" (32 hours). Bachelor degree in Biotechnology.

October 2019 - Present: Teaching of "Biochemical and Clinical Nutrition" (32 hours). Master degree in Food, Health and Environment.

October 2019 - Present: Teaching of "The pillars of drug discovery and development" (8 hours) EMOTION - Erasmus Mundus Master.

October 2017- October 2020: Teaching of "Molecular Biology" (40 hours) Master degree in Pharmacy.

Supervisor of 6 PhD theses:
XXXIII cycle-PhD student: Castrese Morrone
XXXVI cycle-PhD student: Marta Alberti
XXXVII cycle-PhD student: Daniele Mazzoletti
XXXVII cycle-PhD student: Marianna Genta
XXXVII cycle-PhD student: Anna Sategna
XXXIX cycle-PhD student: Matteo Leoncini (fellowship co-funded by Nerviano Medical Sciences)

PROJECTS COORDINATION/GRANTS

-01 november 2010 - 30 september 2014: Participation as PhD student and as Post-Doc researcher in the research project "System Biology of Mycobacterium tuberculosis" funded by the European Commission (SysteMTb HEALTH-F4-2010-241587).

-01 june 2017 - 30 november 2019: Principal Investigator (PI) for the project "Deciphering molecular aspects of Mycobacterium tuberculosis DNA repair to disclose its role in the pathogenesis of tuberculosis in humans" funded by Fondazione Cariplo with the competitive call "Biomedical research conducted by young researchers" (project no. 2016-0604) (243.000 Euro).

-01 may 2020 - 01 may 2021: Principal Investigator and Coordinator of the project "Development of a fluorescence-based biosensor for the monitoring, in a point-of-care context, of hydroxyproline as a biomarker of fibrosis in chronic inflammatory diseases" funded by University of Piemonte Orientale (18800 Euro).

-December 2021 - present: Coordinator of a FREE-MOVER project for scientific exchange between University of Piemonte Orientale and City University of New York (43.400 Euro).

-01 july 2021 - present: Principal Investigator (PI) for the project "DNA replicative helicase loading in Mycobacterium tuberculosis: understanding the molecular details of bacterial replication in active tuberculosis "funded by the Fondazione Cariplo with the competitive call" Biomedical research conducted by young people researchers "(project n. 2020-3589) (250000 Euro).

-20 april 2021 - present: Participation as research collaborator to the project "Molecular machinery of the bacterial nucleotide excision repair pathway" founded by National Science Foundation (USA) to David Jeruzalmi (PI). Award #2114509 (979.864 dollar)

- 01 july 2023 - present: Principal Investigator (PI) for the project " Dynamics of recruitment of macromolecular complexes active on the mycobacterial orisome: mechanistic details and target validation" funded by the Italian Ministry of Research "(project n. 2022LCN738) (211.110 Euro).

- 01 august 2023 – present: Co-Principal Investigator (Co-PI) for the project "Deciphering the mechanistic details of Mycobacterium tuberculosis nucleotide excision repair and related proteins as key players of bacterial persistence and adaptation: structure-based insights for anti-evolution drug design "funded by the Italian Ministry of Research"(project n. P2022P8KMF) (241.244 Euro)

- 01 December 2023 – present: Participation as research collaborator to the project "Leveraging new chemical modalities for reprogramming IDO1 half-life in cancer immunotherapy" founded by Associazione Italiana Ricerca sul Cancro-AIRC (project n. 29452) (482.000 Euro)

PRIZES AND AWARDS

-01 june 2016 - Best Poster Award with a scholarship to participate to "Proteine2016" conference funded by the Italian Crystallography Association.

-26 april 2018 - Winner of the ASSUNI competition announced by the ASSOCIATION FOR THE DEVELOPMENT OF THE UNIVERSITY IN NOVARA for the awarding of scholarships for carrying out training periods and/or research activities abroad.

-5 may 2019 - Prize "100 Italian Excellences" for technology transfer and research conferred by the Observatory of Italian Excellences to IXTAL srl, a spin off company of which I am the co-founder.

BIBLIOMETRICS INDICATORS

- total number of publications: **32**
- h-index: **14** (Scopus)
- number of citations: **410** (Scopus)

PEER-REVIEWED PUBLICATION LIST

1. Alberti M, Poli G, Broggini L, Sainas S, Rizzi M, Boschi D, Ferraris DM, Martino E, Ricagno S, Tuccinardi T, Lolli ML, **Miggiano R**. An alternative conformation of the N-terminal loop of human dihydroorotate dehydrogenase drives binding to a potent antiproliferative agent. Acta Crystallogr D Struct Biol. 2024 Jun 1;80(Pt 6):386-396. doi: 10.1107/S2059798324004066.

2. Alberti M, Sainas S, Ronchi E, Lolli ML, Boschi D, Rizzi M, Ferraris DM, **Miggiano R**. Biochemical characterization of Mycobacterium tuberculosis dihydroorotate dehydrogenase and identification of a selective inhibitor. FEBS Lett. 2023 Aug;597(16):2119-2132. doi: 10.1002/1873-3468.14680.

3. Merlo R, Mattossovich R, Genta M, Valenti A, Di Mauro G, Minassi A, **Miggiano R***, Perugino G. First thermostable CLIP-tag by rational design applied to an archaeal O6 -alkyl-guanine-DNA-alkyl-transferase. Comput Struct Biotechnol J. 2022 Sep 18;20:5275-5286. doi: 10.1016/j.csbj.2022.09.015. *equally contributing as corresponding author.

4. Sainas S, Giorgis M, Circosta P, Poli G, Alberti M, Passoni A, Gaidano V, Pippione AC, Vitale N, Bonanni D, Rolando B, Cignetti A, Ramondetti C, Lanno A, Ferraris DM, Canepa B, Buccinnà B, Piccinini M, Rizzi M, Saglio G, Al-Karadaghi S, Boschi D, **Miggiano R**, Tuccinardi T, Lolli ML. Targeting Acute Myelogenous Leukemia Using Potent Human Dihydroorotate Dehydrogenase Inhibitors Based on the 2-Hydroxypyrazolo[1,5-a]pyridine Scaffold: SAR of the Aryloxyaryl Moiety. J Med Chem. 2022 Oct 13;65(19):12701-12724. doi: 10.1021/acs.jmedchem.2c00496.

5. Esposito Verza A, **Miggiano R**, Lombardo F, Fiorillo C, Arcà B, Purghé B, Del Grosso E, Galli U, Rizzi M, Rossi F. Biochemical and structural analysis of a cytosolic sulfotransferase of the malaria vector Anopheles gambiae overexpressed in the reproductive tissues. Curr Res Struct Biol. 2022 Jul 21;4:246-255. doi: 10.1016/j.crstbi.2022.07.001.

6. Ferrario E, **Miggiano R**, Rizzi M, Ferraris DM. The integration of AlphaFold-predicted and crystal structures of human trans-3-hydroxy-l-proline dehydratase reveals a regulatory catalytic mechanism. Comput Struct Biotechnol J. 2022 Jul 18;20:3874-3883. doi: 10.1016/j.csbj.2022.07.027.

7. Desole C, Gallo S, Vitacolonna A, Vigna E, Basilico C, Montarolo F, Zuppini F, Casanova E, **Miggiano R**, Ferraris DM, Bertolotto A, Comoglio PM, Crepaldi T. Engineering, Characterization, and Biological Evaluation of an Antibody Targeting the HGF Receptor. Front Immunol. 2021 Dec 3;12:775151. doi: 10.3389/fimmu.2021.775151.

8. Merlo R, Caprioglio D, Cillo M, Valenti A, Mattossovich R, Morrone C, Massarotti A, Rossi F, **Miggiano R**, Leonardi A, Minassi A, Perugino G. The SNAP-tag technology revised: an effective chemo-enzymatic approach by using a universal azide-based substrate. J Enzyme Inhib Med Chem. 2021 Dec;36(1):85-97. doi: 10.1080/14756366.2020.1841182.

9. Iannucci A, Caneparo V, Raviola S, Debernardi I, Colangelo D, **Miggiano R**, Griffante G, Landolfo S, Gariglio M, De Andrea M. Toll-like receptor 4-mediated inflammation triggered by extracellular IFI16 is enhanced by lipopolysaccharide binding. PLoS Pathog. 2020 Sep 9;16(9):e1008811. doi: 10.1371/journal.ppat.1008811.

10. Talmon M, Bosso L, Quaregna M, Lopatriello A, Rossi S, Gavioli D, Marotta P, Caprioglio D, Boldorini R, **Miggiano R**, Fresu LG, Pollastro F. Anti-inflammatory Activity of Absinthin and Derivatives in Human Bronchoepithelial Cells. J Nat Prod. 2020 Jun 26;83(6):1740-1750. doi: 10.1021/acs.jnatprod.9b00685.

11. **Miggiano R**, Rizzi M, Ferraris DM. Mycobacterium tuberculosis Pathogenesis, Infection Prevention and Treatment. Pathogens. 2020 May 18;9(5):385. doi: 10.3390/pathogens9050385.

12. Ferrario E, **Miggiano R**, Rizzi M, Ferraris DM. Structure of Thermococcus litoralis Δ1-pyrroline-2-carboxylate reductase in complex with NADH and L-proline. Acta Crystallogr D Struct Biol. 2020;76(Pt 5):496-505. doi:10.1107/S2059798320004866.

13. Mattossovich R, Merlo R, **Miggiano R**, Valenti A, Perugino G. O6-alkylguanine-DNA Alkyltransferases in Microbes Living on the Edge: From Stability to Applicability. Int J Mol Sci. 2020 Apr 20;21(8):2878. doi: 10.3390/ijms21082878..

14. Ferraris DM, Gelardi ELM, Garavaglia S, **Miggiano R**, Rizzi M. Targeting NAD-dependent dehydrogenases in drug discovery against infectious diseases and cancer. Biochem Soc Trans. 2020;48(2):693-707. doi:10.1042/BST20191261.

15. **Miggiano R**, Morrone C, Rossi F, Rizzi M. Targeting genome integrity in Mycobacterium tuberculosis: from nucleotide synthesis to DNA replication and repair. Molecules 2020, 25, 1205.

16. **Miggiano R**, Martignon S, Minassi A, Rossi F, Rizzi M. Crystal structure of Haemophilus influenzae 3-isopropylmalate dehydrogenase (LeuB) in complex with the inhibitor O-isobutenyl oxalylhydroxamate. Biochem Biophys Res Commun. 2020 Feb 11:S0006-291X(20)30288-6. doi: 10.1016/j.bbrc.2020.02.022.

17. Grolla AA, **Miggiano R***, Di Marino D, Bianchi M, Gori A, Orsomando G, Gaudino F, Galli U, Del Grosso E, Mazzola F, Angeletti C, Guarneri M, Torretta S, Calabrò M, Boumya S, Fan X, Colombo G, Travelli C, Rocchio F, Aronica E, Wohlschlegel JA, Deaglio S, Rizzi M, Genazzani AA, Garavaglia S. A nicotinamide phosphoribosyltransferase-GAPDH interaction sustains the stress-induced NMN/NAD+ salvage pathway in the nucleus. J Biol Chem. 2020 Jan 27:jbc.RA119.010571. *equally contributing as first author

18. Ferraris DM, **Miggiano R**, Watanabe S, Rizzi M. Structure of Thermococcus litoralis trans-3-hydroxy-l-proline dehydratase in the free and substrate-complexed form. Biochem Biophys Res Commun. Jun 2019 https://doi.org/10.1016/j.bbrc.2019.06.021.

19. Canavesi R, **Miggiano R**, Stella M, Galli U, Rossi F, Rizzi M, Del Grosso E. Study of Anopheles gambiae 3-hydroxykynurenine transaminase activity and inhibition by LC-MS/MS method. J Pharm Biomed Anal. 2019 Sep 5;173:154-161. doi: 10.1016/j.jpba.2019.05.025.

20. Rossi F, **Miggiano R**, Ferraris DM, Rizzi M. The Synthesis of Kynurenic Acid in Mammals: An Updated Kynurenine Aminotransferase Structural KATalogue. Front Mol Biosci. 2019;6:7. Published 2019 Feb 27. doi:10.3389/fmolb.2019.00007

21. Rossi F, Morrone C, Massarotti A, Ferraris DM, Valenti A, Perugino G, **Miggiano R**. Crystal structure of a thermophilic O6-alkylguanine-DNA alkyltransferase-derived self-labeling protein-tag in covalent complex with a fluorescent probe. Biochem Biophys Res Commun. 2018 Jun 7; 500(3):698-703. doi: 10.1016/j.bbrc.2018.04.139.

22. Ferraris DM, **Miggiano R**, Rossi F, Rizzi M. Mycobacterium tuberculosis Molecular Determinants of Infection, Survival Strategies, and Vulnerable Targets. Pathogens. 2018 Feb 1; 7(1). pii: E17. doi: 10.3390/pathogens7010017.

23. **Miggiano R**, Valenti A, Rossi F, Rizzi M, Perugino G, Ciaramella M. Every OGT Is Illuminated … by Fluorescent and Synchrotron Lights. Int J Mol Sci. 2017 Dec 5; 18(12). pii: E2613. doi: 10.3390/ijms18122613.

24. Lahiri S, Rizzi M, Rossi F, **Miggiano R**. Mycobacterium tuberculosis UvrB forms dimers in solution and interacts with UvrA in the absence of ligands. Proteins. 2018 Jan; 86(1):98-109. doi: 10.1002/prot.25412.

25. Sarno S, Manzo AM, Ferraris DM, **Miggiano R**, Rizzi M, Palin L, Boccaleri E, Milanesio M. Absolute structure and structure-function relationships of 4R, 2'R and 4S, 2'S Pidotimod®. J. molstruc. 2017 Nov; 1147(5): 810–814.

26. Donini S, Ferraris DM, **Miggiano R**, Massarotti A, Rizzi M. Structural investigations on orotate phosphoribosyltransferase from Mycobacterium tuberculosis, a key enzyme of the de novo pyrimidine biosynthesis. Sci Rep. 2017 Apr 26; 7(1):1180. doi: 10.1038/s41598-017-01057-z.

27. Donini S, Garavaglia S, Ferraris DM, **Miggiano R**, Mori S, Shibayama K, Rizzi M. Biochemical and structural investigations on phosphoribosylpyrophosphate synthetase from Mycobacterium smegmatis. PLoS One. 2017 Apr 18; 12(4):e0175815. doi: 10.1371/journal.pone.0175815.

28. Morrone C, **Miggiano R***, Serpe M, Massarotti A, Valenti A, Del Monaco G, Rossi M, Rossi F, Rizzi M, Perugino G, Ciaramella M. Interdomain interactions rearrangements control the reaction steps of a thermostable DNA alkyltransferase. Biochim Biophys Acta. 2017 Feb;1861(2):86-96. doi: 10.1016/j.bbagen.2016.10.020. *equally contributing as first author

29. **Miggiano R**, Perugino G, Ciaramella M, Serpe M, Rejman M, Páv O, Pohl R, Garavaglia G, Lahiri S, Rizzi M, Rossi F. Crystal structure of Mycobacterium tuberculosis O6-methylguanine-DNA methyltransferase protein clusters assembled on to damaged DNA. Biochem J. 2016 Jan 15; 473(2):123-33. doi:10.1042/BJ20150833.

30. Perugino G, **Miggiano R***, Serpe M, Vettone A, Valenti A, Lahiri S, Rossi F, Rossi M, Rizzi M, Ciaramella M. Structure-function relationships governing activity and stability of a DNA alkylation damage repair thermostable protein. Nucleic Acids Res. 2015 Oct 15; 43(18):8801-16. doi: 10.1093/nar/gkv774. *equally contributing as first author

31. **Miggiano R**, Casazza V, Garavaglia S, Ciaramella M, Perugino G, Rizzi M, Rossi F. Biochemical and structural studies of the Mycobacterium tuberculosis O6-methylguanine methyltransferase and mutated variants. J Bacteriol. 2013 Jun; 195(12):2728-36. doi: 10.1128/JB.02298-12.

32. Spyrakis F, Felici P, Bayden AS, Salsi E, **Miggiano R**, Kellogg GE, Cozzini P, Cook PF, Mozzarelli A, Campanin B. Fine tuning of the active site modulates specificity in the interaction of O-acetylserine sulfhydrylase isozymes with serine acetyltransferase. Biochim Biophys Acta. 2013 Jan; 1834(1):169-81. doi:10.1016/j.bbapap.2012.09.009.

PATENTS

Italian patent application for invention entitled: "Recombinant DrA (AfaE) protein conjugate for the treatment of tumors"
Owner: Exeris SA
Inventors: Domenico Badone, **Riccardo Miggiano**, Luigi Panza

PARTICIPATION IN SCIENTIFIC CONFERENCES

25-30 JUNE 2011 - 36th Federation of European Biochemical Societies Congress - Centro Congressi Lingotto - Torino.

04-07 MARCH 2012 - Second SysteMTB annual meeting and workshop on hypoxia - Hotel "La Palma" - Stresa (Italia).

11-16 SEPTEMBER 2012 - Tuberculosis 2012 - Biology, pathogenesis, intervention strategies - Institute Pasteur - Paris. Poster session.

25-26 SEPTEMBER 2012 - Meeting "Proteine 2012" - Auditorium Nuovo Rettorato, Università "G. D'Annunzio" - Chieti. Poster session.

26-29 SEPTEMBER 2012 - 56th National Meeting of the Italian Society of Biochemistry and Molecular Biology - Auditorium Nuovo Rettorato, Università "G. D'Annunzio" - Chieti.

11-12 MARCH 2013 - Third SysteMTB Annual Meeting - Potsdam -Germany. Poster session

18-20 SEPTEMBER 2013 - 57th National Meeting of the Italian Society of Biochemistry and Molecular Biology - Polo Chimico-Biomedico - Ferrara. Selected for oral communication.

27 SEPTEMBER 2013 - VII PhD Day - Dipartimento di Scienze e Innovazione Tecnologica, Alessandria. Poster session.

23-25 MARCH 2014 - Fourth SysteMTB annual meeting - Hotel "Punta Negra" - Mallorca - Spain. Poster session.

31 MARCH-01 APRIL 2014 - Meeting "Proteine 2014" - Hotel NH Mantegna - Padova. Poster session.

24 MARCH 2015 - Seminar at the the Institute of Biosciences and BioResources, CNR - Napoli. Invited Speaker.

17 SEPTEMBER 2015 - First Annual Gathering of Italian Structural Biologists - Vercelli.

30 MARCH-01 APRIL 2016 - Meeting "Proteine 2016" - Aula G. Prodi – Università degli Studi di Bologna - Selected for oral communication.
Winner of the award for the best poster founded by "Italian Association of Crystallography".

20-22 SEPTEMBER 2017- 59th National Meeting of the Italian Society of Biochemistry and Molecular Biology - Caserta. Invited Speaker.

24-28 SEPTEMBER 2017 - The 6th EU-US DNA Repair Meeting 2017 - Università degli Studi di Udine. Poster session.

11-15 FEBRUARY 2018 - The 3rd DNA Replication/Repair Structures and Cancer Conference - Fiesta Americana Condesa in Cancun, Mexico. Poster session.

28-30 MAY 2018 - Convegno "Proteine 2018" - Silos di Ponente del Polo di Santa Marta, Università di Verona. Invited Speaker.

16-20 SEPTEMBER 2018 - 12th Edition of the International Congress on Extremophiles, Congress Centre of the Hotel Continental, Ischia (NA). Poster session.

18-20 SEPTEMBER 2019 - 60th National Meeting of the Italian Society of Biochemistry and Molecular Biology - Università del Salento - Lecce. Poster session.

23-24 SEPTEMBER 2021 - 61st MEETING of the Italian Society of Biochemistry and Molecular Biology - Virtual Edition. Invited speaker

12-16 SEPTEMBER 2022 - EMBO Workshop on Tuberculosis 2022- Biology, pathogenesis, intervention strategies - Institute Pasteur - Paris. Poster session.

18-19 MAY 2023 Member of the organizing committee for the meeting "BIOPROSYS - From basic understanding of cell networks to their modulation and engineering for health and industrial applications" at Università degli Studi della Campania Luigi Vanvitelli.

07-09 SEPTEMBER 2023 – 62nd National Meeting of the Italian Society of Biochemistry and Molecular Biology. Polo Didattico Morgangni, Università di Firenze. Poster session. Member of the evaluation board for the "best poster prize".

26-29 JUNE 2024 – Chair of the organizing committee of the "23rd FEBS Young Scientists' Forum" at Università di Pavia.

29 JUNE – 03 JULY 2024 – Member of the scientific committee for the organisation of the "48th FEBS Congress -Mining biochemistry for human health and well-being" at Milano Convention Center (MICO).

Novara, 30th June 2024

Firmato digitalmente da Riccardo Miggiano
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