

ESTRATTO DEL CURRICULUM VITAE/ CURRICULUM VITAE EXTRACT

redatto ai fini della pubblicazione sul sito istituzionale della Scuola Superiore Sant'Anna/

compilation is aimed at publication on the Sant'Anna's Institutional Website

(indicare la sezione del sito in cui andrà pubblicato il cv e la norma di riferimento, ad es. "... cv per la pubblicazione ai sensi dell'art. 15-bis, comma 1, lett. b, del D. Lgs. 33/2013 rubricato "Obblighi di pubblicazione concernenti incarichi conferiti nelle società controllate", previa visione dell'informativa privacy..."

Cognome e nome / Surname and Name

Barchetti Karen

Istruzione e formazione / Education and training

10/2024 – Current - Paris, France : **PhD Student in Space Pharmacology & Physiology - Université Paris Cité & PARCC - Paris Cardiovascular Research Center, Inserm U970**

05/2025 - ISGP2025 - *International Society for Gravitational Physiology*. Oral presentation in ISGP2025 (Sapporo, Japan) and awarded for the **ISGP Young Investigator Award** based on the abstract titled: *MICROVASC Study - Assessing Early Vascular Aging: Feasibility of Measuring Arterial Stiffness via Pulse Wave Velocity During a Parabolic Flight Campaign*

09/2018 – 04/2024 - URBINO, ITALY : **One Cycle Master's Degree (Master 2) - Program in Pharmacy (LM-13)**, University of Urbino "Carlo Bo". Final grade: 110 Cum Laude. Thesis: *SPACE TRAVELS, ASTRONAUTS, AND DRUGS. The state of the art on pharmacological aspects through interview analysis with experts in the field*

04/12/2023 – 08/12/2023 – Belgium, **ESA | Human Space Physiology Training Course ESA Academy's Training & Learning Facility, ESEC-Galaxia**

10/10/2022 – 14/10/2022 Pisa, Italy. **Seasonal School "BEPP - Biology for human space exploration" Sant'Anna School of Advanced Studies**

Publications: Redefining space pharmacology: bridging knowledge gaps in drug efficacy and safety for deep space missions. K. Barchetti, A. Derobertmasure, P. Boutouyrie, P. Sestili; *Frontiers Space Technology, Sec. Space Exploration, Volume 5 - 2024 doi.org/10.3389/frspt.2024.1456614*

On the nose: nasal neurostimulation as a technology countermeasure for sinonasal congestion in astronauts. Timon Ax, Philipp H. Zimmermann, Tomas L. Bothe, Karen Barchetti, Cintia S. de Paiva, Francisc March de Ribot et al.; *Front. Physiology, Sec. Environmental, Aviation and Space Physiology, Volume 16 - 2025 doi.org/10.3389/fphys.2025.1536496*

Esperienza lavorativa / Work experience

Teaching:

- **01/2024** - MUA Share Your Thesis - Lecture and presentation based on my Master's thesis and doctoral research activities
- **11/2024** - University of Urbino Carlo Bo, Urbino, Italy - Seminar dedicated to the pharmacy students of the University of Urbino titled "The Space Pharmacology Today"
- **07/2024** - Sant'Anna School of Advanced Studies, Pisa, Italy - One-hour lecture titled "Pharmacology for Space Travel" for the Seasonal School "BEEP - Biology for human space exploration"

07/2023 – 02/2024 - Merano (BZ), Italy - Hospital Pharmacist Internship at Franz Tappeiner Merano Hospital - Hospital drug direct distribution, galenic laboratory, and pharmacovigilance

07/2022 – 08/2022 - Pharmacy Dr. Marco Bertazzoni, Laives (BZ), Italy - Pharmacist's assistant

Data/date: 10/07/2025