

CURRICULUM VITAE

JOEL VINCENZI



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My research activity focuses on different aspects of Zoology such as biodiversity, biogeography, phylogeny, and physiology, with a specific focus on the study of Tardigrades. My current research delves into the tardigrades molecular mechanisms involved in their ability to withstand environmental extreme conditions. Specifically, I am studying the genes associated with the production of TDPs (Tardigrade Disordered Proteins), which play a crucial role in their resistance abilities. By understanding the molecular basis of these mechanisms, my research aims to advance the knowledge of tardigrade adaptations and contribute to the development of innovative biomimetic technologies.

EDUCATION

11/2022 – Current

PhD Student in “Models and Methods for Material and Environmental Sciences”

University of Modena and Reggio Emilia (UNIMORE) – Department of Chemical and Geological Science

“Tardigrade resistance mechanisms: evolution and adaptations to extreme environments in relation to climate change”

(Tutor: Dr. Michele Cesari)

10/2019 – 4/2022

Master’s degree in Experimental and Applied Biology (Class LM-6 – D.M. 270/04)

University of Modena and Reggio Emilia (UNIMORE)

Thesis title: “Phylogeny and biogeography of the genus *Xerobiotus* (Macrobioidea, Eutardigrada) with the integrative description of new taxa”
(Supervisor: Prof. Guidetti; co-supervisor: Dr. Cesari)

Final mark: 110/110 cum Laude et Encomium (April 12th, 2022)

9/2016 – 12/2019

Bachelor's Degree in Biological Sciences (Class L-13 – D.M. 270/04)
University of Modena and Reggio Emilia (UNIMORE)

Thesis title: "Cambiamenti climatici: approcci metodologici per valutare le risposte alle variazioni di temperatura in una specie antartica di tardigrado"
(Supervisor: Prof. Lorena Rebecchi; co-supervisor: Dr. Ilaria Giovannini)

Final mark: 110/110 cum Laude (December 18th, 2019)

ACADEMIC ROLES

2021/22	Member of Quality Assurance Group for LM6 (UNIMORE)
2021/22	Student representative member on Council at Department of Life Sciences (UNIMORE)
2019/22	Student representative member on Council of Master's Degree Course (UNIMORE)
2016/19	Student representative member on Council of Bachelor's Degree Course (UNIMORE)

AWARDS

2023	Award for the best thesis in the medical-biological field at UNIMORE (Fondazione Cassa di Risparmio di Carpi)
2023	SIBS 2023 Award (95 th Congress of the Società Italiana Biologia Sperimentale SIBS)
2022	UZI-UTET 2022 Award (81 st Congress of the Italian Zoological Union – UZI; Trieste)
2022	Travel Grant for Young Scientist (15 th International Symposium on Tardigrada; Cracow)
2021	UZI 2021 Giovani Ricercatori Award (Unione Zoologica Italiana)
2021	Degree Award "Lions Club Modena Host" on issues of environmental protection and sustainable development
2018/2019	Bachelor's Degree Award (UNIMORE)
2018/2019	Study Award (UNIMORE)
2018	Living Fellowship for "Trieste Next - Festival della Ricerca Scientifica - project Accademy 2018"
2016/2017	Study Award (UNIMORE)

ORGANIZATION OF SCIENCE EVENTS

Promoter, organizer, and speaker of the scientific event "BIOmeeting 2022" (1st edition, UNIMORE)

Promoter, organizer, and speaker of the scientific event "BIOmeeting 2023" (2nd edition, UNIMORE)

SCIENTIFIC OUTREACH AND LABORATORY-BASED EDUCATIONAL ACTIVITIES

- 4/2023 Speaker of the contribution titled "A climi estremi... estremi rimedi! L'ingegno umano e animale per fronteggiare il clima che cambia". Civic Planetarium, Modena
- 11/2022 Organization and conduction of a seminar with laboratory demonstrations aimed at primary and lower secondary school classes of Modena and the general public, titled "Insects, Food of the Future?" as part of the "Science to Eat" Project; Delfini Library, Modena
- 9/2022 Participation in the organization and conduction of the contribution titled "Tardigrades: Myths, Curiosities, and Research" as part of the "Notte della Ricerca 2022", UNIMORE, Modena
- 2 - 4 /2022 Participation in the organization and conduction of 3 workshops titled "From Imagination to Observation: Exploring Tardigrades" at several primary schools in the provinces of Modena and Reggio Emilia
- 11/ 2021 Speaker at the event "BIOLOGY: The most resilient animals on planet Earth, a new model for space biology" as part of the "Four Steps in Space, 2021" Project, a series of meetings with scientists, interactive workshops, and demonstrations (Laboratorio Aperto, Modena)

PUBLICATIONS

Papers

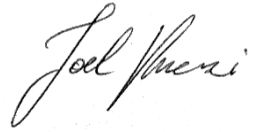
1. Mercuri A. M., Bellini E., Bonaffini A., Cenni E., Ferrari V., Frigieri F., Perico C., Ricucci C., Scaramelli M., Vincenzi J., Vitali V., Zanni G. & Florenzano A. (2021) Palynology as a field of Applied Botany: an interdisciplinary approach to interpret the past and address future conservation challenges. *Atti della Società dei Naturalisti e Matematici di Modena*, 152, 97-107
2. The xerophilic genera *Xerobiotus* and *Pseudohexapodibius* (Macrobiotidae; Tardigrada): biodiversity, biogeography and phylogeny *(submitted)*

Abstracts

3. **Vincenzi** et al (2021) Approcci morfologici, cariologici e molecolari biodiversità nei tardigradi del genere *Xerobiotus* (Eutardigrada, Macrobiotidae). *80° Congresss Unione Zoologica Italiana UZI*
4. **Vincenzi** et al (2022) Phylogeny and biogeography of the genus *Xerobiotus* (Macrobiotidae, Eutardigrada). *15th International Symposium on Tardigrada*, p. 57
5. Cesari et al, **Vincenzi** et al (2022) Is there a universal DNA barcode gap in tardigrades? *15th International Symposium on Tardigrada*, p. 155
6. Giovannini et al, **Vincenzi** et al (2022) Life cycle of *Acutuncus antarcticus* and acclimatory adaptation during exposure to increasing temperature. *15th International Symposium on Tardigrada*, p. 73
7. Giovannini et al, **Vincenzi** et al (2022) At school with tardigrades - A microscopic animal model for science education. *15th International Symposium on Tardigrada*, p. 136
8. **Vincenzi** et al (2022) Integrating is better than separating: integrative approach in the phylogeny and biogeography of an intriguing tardigrade genus. *9th SIBE Congress*
9. Giovannini et al, **Vincenzi** et al (2022) Consequences of increasing temperature on life cycle and gene expression in an Antarctic species of tardigrades. *81° Congresso Unione Zoologica UZI*

10. Cesari et al, **Vincenzi** et al (2022) Is there a universal DNA barcode gap in tardigrades? 81° Congress Unione Zoologica Italiana UZI
11. **Vincenzi** et al (2023) A unique barcode gap to rule them all: a reliable method for tardigrade species delimitation? 95° Congress Società Italiana Biologia Sperimentale SIBS

The undersigned declares under own responsibility, pursuant to Articles 46 and 47 of Presidential Decree No. 445/2000, that what is reported is true. I authorize the processing of personal data in accordance with Article 13 of Legislative Decree No. 196/2003.



Joel Vincenzi