



## PERSONAL DATA

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Name: Guglielmo

Last Name: Militello

Birth date: 04/08/1991

Nationality: Italy

Professional address: CNRS (UMR8590), 13 Rue du Four, 75006, Paris

Languages: FR (C1), EN (C1), ES (C1), DE (B2), IT (mother tongue)

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AOS: Philosophy of science, Philosophy of biology, Philosophy of medicine, Philosophy of cancer, Cancer Biology

AOC: Epistemology, Metaphysics, History of philosophy, Evolutionary Biology, Molecular Biology

## PROFESSIONAL EXPERIENCE

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### ACADEMIC QUALIFICATIONS

- 2025**                      **Ranked 6<sup>th</sup>** at the French National competition of CNRS, sect 53
- 2024**                      **Ranked 3<sup>rd</sup>** at the Belgian National competition at the University of Namur
- 2023-2024**              **Maître de conférences (associate professor)**, sect 72 (Epistemology and philosophy of science) and 17 (Philosophy), CNU, France

### CAREER

- 2024 -**                      **Associate Researcher**, IHPST, Paris
- 2024 - 2025**              **Post-Doctoral Researcher**, University of Bordeaux, ImmunoConcept Lab (PI: Dr Thomas Pradeu, Dr Bertrand Daignan-Fornier)
- 2025**                      **Lecturer**, University of Poitiers (France)
- 2023 - 2024**              **Associate Researcher**, Campus Biomedico (Rome), Department of Sciences and Technologies of Mankind and Environment (PI: Prof. Marta Bertolaso)
- 2023 - 2024**              **Post-Doctoral Researcher**, CNRS (UMR 8590, IHPST, Paris) & INSERM (UMR 1287, Institut Gustave Roussy, Villejuif) (PI : Dr Lucie Laplane)
- 2022**                      **Medical Science Liaison (MSL)**, Provepharm, Marseille, France
- 2021 - 2022**              **Clinical Project Manager** in Oncology, Servier, Suresnes, France
- 2018 - 2021**              **Pre-Doctoral Researcher**, University of the Basque Country (San Sebastian, Spain), Department of Logic and Philosophy of Science (PI: Prof Alvaro Moreno, Dr Leonardo Bich)

## EDUCATION

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- 2016 -2021**              **PhD in Philosophy of Science**, University of the Basque Country, San Sebastian, Spain (PhD advisors: Prof Alvaro Moreno & Dr Leonardo Bich)  
Title thesis: *Structural and Organisational Conditions for the Appearance of a Functionally Integrated Individual in the Transition from Prokaryotic to Eukaryotic Cell*

## Curriculum Vitae – Guglielmo Militello, PhD

- 2013-2016**      **MA in Philosophy of Science**, University of Pisa, Italy (Supervisors: Prof. Pierluigi Barrotta, Prof. Riccardo Zucchi)
- 2010 – 2013**      **BA in Philosophy** (major Philosophy, minor molecular biology), University of Pisa, Italy (Supervisor: Prof. Massimo Barale)

### VISITING PERIODS

- 2018**      **Institut d’Histoire et Philosophie des Sciences et Techniques (IHPST)**, CNRS, Paris, France (supervisor : Matteo Mossio)
- 2014**      **Department of Philosophy**, University Gutenberg, Mainz, Germany (supervisor: Thomas Metzinger)

### PRIZES

- 2023**      **Extraordinary Prize** of the University of the Basque Country for the best theses of the year 2020/21

### TEACHING ACTIVITIES

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- 2025 - 2026**      Analysis of a philosophical work (**Hume’s An Enquiry Concerning Human Understanding**), 1<sup>st</sup> year BA in Philosophy, University of Poitiers, 30 hours
- 2025 -2026**      **Epistemology**, 1<sup>st</sup> year BA in History, Geography, History of Art, Musicology, University of Poitiers, 30 hours
- 2024 - 2025**      **Philosophy of Special Sciences** (Biology and Medicine), 2<sup>nd</sup> year BA in Philosophy, University of Poitiers, 30 hours
- 2024 -2025**      **Philosophy of Science**, 1<sup>st</sup> year BA in Philosophy and Law, University of Poitiers, 42 hours
- 2023-2024**      **Philosophy of Biology and Philosophy of Cancer**, 1<sup>st</sup> year MA in Logic and Philosophy of Science, University Paris 1 Panthéon-Sorbonne, Paris, 12 hours
- 2019-2020**      **Philosophy of Science**, 3<sup>rd</sup> year BA in Philosophy, University of the Basque Country, San Sebastian, 12 hours

### SUPERVISING AND MENTORING ACTIVITIES

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- 2024**      **Supervising a master thesis (M1)** in philosophy of biology (University Paris 1 Panthéon-Sorbonne)
- 2023**      **Mentoring a student** enrolled in the BA in philosophy (University of Oviedo, Spain) during her 1-month internship in my laboratory (UMR 1287-Inserm and UMR 8590-CNRS)

### RESEARCH PROJECTS

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#### AS A PRINCIPAL INVESTIGATOR

1. **2026**      **Philosophy of Anticancer Immunotherapies**. Funded by the European Commission Horizon Europe programme (MSCA Postdoctoral Fellowship 2025). The project

was evaluated as excellent in a highly competitive selection process (Seal of Excellence, score: 87/100), but was not funded due to the funding threshold being set at 97/100.

2. **2018-2021** *Structural and Organisational Conditions for the Appearance of a Functionally Integrated Individual in the Transition from Prokaryotic to Eukaryotic Cell*. Funded by the University of the Basque Country (project PIF 17/31), Spain. Duration 36 months. Amount: € 47272

#### **PARTICIPATION IN FUNDED PROJECTS**

1. 2024 - 2025 Project “**New Moon**: Assessing the role of Stemness as a necessary and sufficient condition of cancer”. Coordinators: Dr Thomas Pradeu & Dr Bertrand Daignan-Fornier, CNRS & Université de Bordeaux. Funded by Université de Bordeaux
2. 2023 - 2024 Project “**Philosophy, Phylogeny and Biology of Stem Cells**”. Coordinator: Dr Lucie Laplane, CNRS & Institut Gustave Roussy. Funded by Agence Nationale de la Recherche (ANR)
3. 2020 - 2024 Project “**Fleshing out Autonomy beyond the individual**”. Coordinators: Dr Leonardo Bich and Dr Xabier Barandiaran, University of the Basque Country, Spain. Funded by the Spanish Ministry for Economy and Competitiveness.
4. 2015 - 2019 Project “**Identidad en interacción**: Aspectos ontológicos y normativos de la individualidad biológica, cognitiva y social”. Coordinators: Arantza Etxeberria and Kepa Ruiz-Mirazo, University of the Basque Country, Spain. Funded by the Spanish Ministry for Economy and Competitiveness.

#### **PUBLICATIONS**

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##### **BOOKS**

1. Militello, G. (2025). *Functional Integration: A Theoretical Enquiry into the Biological unit of the Individual*. Dordrecht: Springer. <https://link.springer.com/book/10.1007/978-3-031-94744-5>

##### **PHD THESIS**

1. Militello, G. (2021) *Structural and organisational conditions for the appearance of a functionally integrated organisation in the transition from prokaryotic to eukaryotic cell*. University of the Basque Country. <https://addi.ehu.es/handle/10810/51255>

##### **PAPERS IN INTERNATIONAL PEER-REVIEW JOURNALS**

1. Militello, G., Daignan-Fornier, B., Pradeu, T. (2026). *Cancer Cells-of-Origin: Implications for Tumorigenesis and Therapy*. International Journal of Cancer. Submitted
2. Militello, G., Gazave, E., Paré, L., Laplane, L. (2026). *The Nature of Stem Cell Types*. British Journal for Philosophy of Science. Accepted with major revisions
3. Militello, G., Marinucci, A., Bertolaso, M. (2026c) Is cancer a deterministic disease? Epistemological and ethical challenges. *Journal of Medicine and Philosophy*. Accepted with major revisions

- Militello, G. (2023). *Compte Rendu De Quentin Hiernaux, Du Comportement végétal à l'intelligence Des Plantes ?*. Lato Sensus: Revue De La Société De Philosophie Des Sciences 10 (1):117-19. <https://doi.org/10.20416/LSRSPS.V10I1.10>
- Caianiello, S., Bertolaso, M., Militello, G. (2023). *Thinking in 3 Dimensions: Philosophies of the Microenvironment in Organoids and Organs-on-Chip*. History and Philosophy of the Life Sciences. 45, 14. <https://doi.org/10.1007/s40656-023-00560-z>
- Militello, G., Bertolaso, M (2022). *Stem Cells and the Microenvironment: Reciprocity with Asymmetry in Regenerative Medicine*. Acta Biotheoretica 70, 24. <https://doi.org/10.1007/s10441-022-09448-0>
- Militello, G., Bich, L., Moreno, A. (2020). *Functional Integration and Individuality in Prokaryotic Collective Organisations*. Acta Biotheoretica 69, 3, 391-415. <https://doi.org/10.1007/s10441-020-09390-z>
- Militello, G. (2019). *Motility Control of Symbionts and Organelles by the Eukaryotic Cell: The Handling of the Motile Capacity of Individual Parts Forges a Collective Biological Identity*. Frontiers in Psychology 10,2080. <https://doi.org/10.3389/fpsyg.2019.02080>
- Militello, G., Moreno, A. (2018). *Structural and organisational conditions for being a machine*. Biology and Philosophy, 33, 5-6, 35. <https://doi.org/10.1007/s10539-018-9645-z>

#### BOOK CHAPTERS

- Laplane, L., Militello, G. (2024) *Cellules souches hématopoïétiques et leucémiques*. En : Alessi, M.C., Leporrier, M., Vainchenker, W. (eds) *Traité d'Hématologie*. Paris: Éditions des Traités de Médecine. Chapter 11.
- Militello, G., Bertolaso, M. (2022) *The Complexity of Tumor Heterogeneity: Limitations and Challenges of the Pharmacogenomics in Cancer Treatment*. In: Beneduce, C., Bertolaso, M. (eds) *Personalized Medicine in the Making. Human Perspectives in Health Sciences and Technology*, vol 3. Springer, Cham. [https://doi.org/10.1007/978-3-030-74804-3\\_2](https://doi.org/10.1007/978-3-030-74804-3_2)

#### SELECTED SCIENTIFIC OUTREACH ACTIVITIES FOR A NON-SPECIALIST AUDIENCE (IN ITALIAN)

- Militello, G. (2020) Ecco come il microbiota influenza la relazione tra intestino e cervello. Pancia e salute. <https://www.panciaesalute.it/secondo-cervello/ecco-come-il-microbiota-influenza-la-relazione-tra-intestino-e-cervello/>
- Militello, G. (2020) Reversione tumorale: come trasformare le cellule cancerogene in cellule sane. Oncolife. <https://www.oncolife.it/lavori-scientifici/reversione-tumorale-come-trasformare-le-cellule-cancerogene-in-cellule-sane/>
- Militello, G. (2020) Olaparib e cancro alle ovaie con mutazione genetica Brca. Oncolife. <https://www.oncolife.it/novita-dalla-ricerca/olaparib-e-cancro-alle-ovaie-con-mutazione-genetica-brca/>

#### PUBLIC COMMUNICATION

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##### ORGANISATION OF INTERNATIONAL CONFERENCES

## Curriculum Vitae – Guglielmo Militello, PhD

1. 20/09/2023 – 23/09/2023: Symposium “Philosophies of the environment in organ technologies”, European Philosophy of Science Association (EPSA), Belgrade, Serbia
2. 07/07/2019 -12/07/2019: Symposium “The Machine Metaphor in Nanobiology: Molecular Motors”, International Society for History, Philosophy and Social Studies of Biology (IHPSSB), University of Oslo, Norway
3. 09-10/06/2019: Workshop “Philosophy of Biology and Cognitive Sciences (PBCS) 9”, University of the Basque Country, San Sebastian
4. 26-28/09/2018: Conference “Rencontres Doctorales Internationales en Philosophie des Sciences (RDIPS) 2018”, University Paris Diderot, Paris

### SELECTED PUBLIC PRESENTATIONS IN INTERNATIONAL PEER-REVIEW CONFERENCES

1. 10-12.09.2025 – Société des Philosophie des Scinces (SPS), Benguéir, Morocco  
“Emergence in Major Transitions in Evolutions: Eukaryogenesis as a case-study”
2. 21-25.07.2025 – International Society for the History, Philosophy, and Social Studies of Biology (IHPSSB), Porto, Portugal  
“Experimental Encounters: Philosophers and Scientists Working Together”
3. 15-17.07.2025 – The British Society for the Philosophy of Science (BSPS), Glasgow, UK  
“The Nature of Stem Cell Types”
4. 20-23/09/2023 – European Philosophy of Science Association (EPSA) 2023, Belgrade, Serbia  
“Ontologies of Microenvironment in Organoids and Organs-on-Chips”

### SELECTED INVITED LECTURES

1. 18/04/2025 – Seminar, Université de Namur, Belgium  
« Emergence in Major Transitions in Evolutions: Eukaryogenesis as a case-study »
2. 18/04/2024 – University of Oviedo, Spain  
“Kant, Teleology, and the Organisational Approach”
3. 03/03/2023 – Italian National Institute of Health, Rome, Italy  
“The Complexity of Tumor Heterogeneity”

### PROFESSIONAL SERVICE

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#### REFEREE FOR THE FOLLOWING JOURNALS

1. Ergo
2. British Journal for the Philosophy of Science
3. Philosophy of Science
4. Studies in History and Philosophy of Science
5. Routledge – “Critical Approaches to Health”
6. Synthese
7. Biology and Philosophy
8. Acta Biotheoretica

#### MEMBERSHIP

1. EPSA - European Philosophy of Science Association

2. BPS – British Society for Philosophy of Science
3. ISHPSSB - International Society for the History and Philosophy and Social Studies of Biology
4. SILFS – Società Italiana di logica e filosofia della scienza
5. SPS – Société de Philosophie des Sciences
6. SPSP – Society for Philosophy of Science in Practice

## REFEREES

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1. Dr Thomas Pradeu, [thomas.pradeu@u-bordeaux.fr](mailto:thomas.pradeu@u-bordeaux.fr)
2. Dr Bertrand Daignan-Fornier, [b.daignan-fornier@ibgc.cnrs.fr](mailto:b.daignan-fornier@ibgc.cnrs.fr)
3. Dr Lucie Laplane, [lucie.laplane@univ-paris1.fr](mailto:lucie.laplane@univ-paris1.fr)
4. Prof Thomas Boyer-Kassem, [thomas.boyer.kassem@univ-poitiers.fr](mailto:thomas.boyer.kassem@univ-poitiers.fr)
5. Prof Marta Bertolaso, [m.bertolaso@unicampus.it](mailto:m.bertolaso@unicampus.it)
6. Dr Leonardo Bich, [leonardo.bich@ehu.eus](mailto:leonardo.bich@ehu.eus)
7. Prof Alvaro Moreno, [alvarojulianmb@gmail.com](mailto:alvarojulianmb@gmail.com)