

## CV Thomas Pradeu (August 2021)

Name: **PRADEU, Thomas**  
Researcher unique identifier (ORCID): 0000-0002-6590-3281  
Date of birth: January 8, 1978. Nationality: French  
URL for website: [https://www.immuconcept.org/team\\_member/thomas-pradeu/](https://www.immuconcept.org/team_member/thomas-pradeu/)

**Areas of specialization:** Philosophy of Biology; Philosophy of Science; Conceptual approaches in the biological sciences, especially immunology, cancer biology, developmental biology, and microbiome studies.

**Areas of competence:** Philosophy of Medicine; History of Biology; Metaphysics of Science.

### EDUCATION

2004-2007 **PhD in Philosophy**, Paris 1 Panthéon-Sorbonne University: “*Immunology and the Definition of Biological Identity*”, co-supervised by Jean Gayon (Prof. of Philosophy, Pantheon-Sorbonne Univ.) & Edgardo Carosella (Prof. of Immunology, Paris-Diderot Univ.)  
2003-2004 **Visiting Fellow at Harvard University**, Cambridge (MA), USA.  
2003 **Master in Philosophy**, Paris-Diderot University.  
**Diploma in Immunology**, Master of Biology, Ecole Normale Supérieure de Paris.  
2002 **Aggregation of Philosophy** (highly competitive exam for the recruitment of French secondary school teachers). (National rank: 10<sup>th</sup>).  
2001 **Philosophy Master’s Degree**, Pantheon-Sorbonne University.  
1999-2003 **Ecole Normale Supérieure of Paris** (National rank: 9<sup>th</sup>), Department of Philosophy.

### CURRENT POSITION

Since 2017 **CNRS Research Professor**, affiliated with the **Bordeaux immunology lab** (ImmunoConcept, UMR5164, CNRS & University of Bordeaux).  
Since 2016 Coordinator of the **International network for Philosophy in Biology and Medicine** (“*PhilInBioMed*”) (<https://www.philinbiomed.org/>).  
Since 2014 **PI of the Conceptual Biology & Medicine Team** in the Bordeaux immunology lab.  
Since 2008 **Affiliated member, Institut d’histoire et de philosophie des sciences et des techniques** (IHPST), CNRS & Paris 1 Pantheon-Sorbonne University, Paris, France.

### PREVIOUS POSITIONS

2014-2017 **CNRS Junior Researcher**.  
2008-2014 **Associate Professor, Philosophy Department, Paris-Sorbonne University**, Paris, France.

### GRANTS

2015-2020 **PI ERC-funded project IDEM** (*Immunity, Development, and the Microbiota*) (€1.5M)  
2011-2014 Junior member of **Institut universitaire de France** (IUF) (highly competitive 5-year position)

### PRIZES AND AWARDS

2015 **Lakatos Award** for my book *The Limits of the Self* (£10,000). (Awarded in 2017).  
2008 **Award for best PhD thesis in the humanities**, Chancellerie des Universités de Paris (€10,000).

### FELLOWSHIPS

2003-2004 Fellowship for fully funded Visiting Fellow position, Harvard University.

### SUPERVISION OF GRADUATE STUDENTS

2015-2021 **Supervision of 5 postdocs**, all at Immunology Lab ImmunoConcept, CNRS & University of Bordeaux (France): 5 philosophers of science, funded by my ERC Starting Grant project IDEM; 1 biologist, funded by the University of Bordeaux.  
2015-2021 **Supervision of 3 PhD students**.  
2015-2020 **Participation in 7 PhD defense committees** (5 in philosophy, 1 in biology, 1 in medicine).

## TEACHING ACTIVITIES

- Since 2014 Courses in **Immunology, Biology, and Philosophy of science** (approximately 20 hours/year, mostly at the Graduate Level (Master and PhD programs, in Paris, Bordeaux, and Strasbourg).
- 2008-2014 As an Associate Professor at Philosophy Department, Paris-Sorbonne University: **Courses in Philosophy of Biology; Philosophy of Science; Epistemology** (192 hours/ year).

## ORGANISATION OF SCIENTIFIC MEETINGS (selection)

- November 2018 **Co-main organizer of the first meeting of the international network of Philosophy in Biology and Medicine (PhilInBioMed)**
- October 2018 **Co-main organizer of Philosophy of Cancer Biology Workshop, Bordeaux, France.**
- July 2018 **Co-organizer of session “When Science Meets History and Philosophy of Science”, ESOF, Toulouse, France.**
- 2016-2019 **Co-main organizer of the three workshops of my ERC-funded project IDEM.**
- July 2013 **Co-head of Program Committee (with Michel Morange) of the Meeting of the International Society for History, Philosophy, and Social Studies of Biology (ISHPSSB), Montpellier, France. 650 participants.**

## INSTITUTIONAL RESPONSIBILITIES

- Since 2019 **Member of the Scientific Board of CNRS Life Science Department.**
- Since 2018 Chair of **European Philosophy of Science Association (EPSA) Nomination committee.**
- Since 2014 Member of several committees, at the International Society for History, Philosophy and Social Studies of Biology (ISHPSSB).
- Since 2014 Vice-President of the **Société de Philosophie des Sciences (SPS)**, in charge of the dialogue with scientific societies.

## EDITORIAL & REVIEWING ACTIVITIES

- Since 2017: **Associate Editor, *Biology & Philosophy*.**
- Since 2017: **Member of Editorial Board, *European Journal for Philosophy of Science*.**
- 2015-2016: **Associate Editor, *European Journal for Philosophy of Science*.**
- Since 2015: **Associate Editor, Vienna Series in Theoretical Biology (MIT Press).**

## MAIN PUBLICATIONS

✚ Pradeu T (2019) *Philosophy of Immunology: Understanding the Central Role of the Immune System in Today's Biology and Medicine*. Cambridge Elements, Cambridge University Press.

✚ Pradeu T (2012) *The Limits of the Self: Immunology and Biological Identity*. New York: Oxford University Press. Paperback (2019). **This book received the 2015 Lakatos Award.**

- ✚ Guay A & Pradeu T (eds., (2016) *Individuals Across the Sciences*. NY: Oxford Univ. Press. #96
- ✚ Minelli A & Pradeu T (eds., 2014) *Towards a Theory of Development*. Oxford: Oxford Univ. Press.
- ✚ Barberousse A, Morange M & Pradeu T (eds., 2009) *Mapping the Future of Biology: Evolving Concepts and Theories*. Dordrecht: Springer.

## 2. Articles

- ✚ Guay A & Pradeu T (in press) [Right out of the box: How to situate metaphysics of science in relation to other metaphysical approaches](#). To appear in *Synthese*.
- ✚ ♠ Rondeau E., Larmonier N., Pradeu T. and Bikfalvi A. [co-senior authors] (2019) Philosophy of biology: Characterizing causality in cancer. *eLife* e53755.
- ✚ Pradeu T. (2019), Philosophy of Biology: Immunology and individuality. *eLife* 8:e47384.
- ✚ ♠ Laplane L., Duluc D., Bikfalvi A, Larmonier N., and Pradeu T. (2019), Beyond the tumour microenvironment. *International Journal of Cancer* 145(10), 2611-2618. (Open Access).
- ✚ ♠ Laplane, L., Mantovani, P., Adolphs, R., Chang, H., Mantovani, A., McFall-Ngai, M., Rovelli, C., Sober, E., & Pradeu, T. (2019), Why science needs philosophy. *Proceedings of the National Academy of Sciences*.

✚ Pradeu T & Moreau JF (2019) CRISPR-Cas immunity: Beyond nonself and defence. *Biology & Philosophy* 34(6).

✚ ♠ Laplane L, Duluc D, Larmonier N, Pradeu T & Bikfalvi A [co-senior authors] (2018) The Multiple Layers of the Tumor Environment. *Trends in Cancer* 4(12), 802-809.

✚ Lemoine M & Pradeu T (2018) Dissecting the meanings of 'Physiology' to assess the vitality of the discipline. *Physiology* 33(4), 236-245.

✚ ♠ Truchetet M-E & Pradeu T (2018) Re-thinking our understanding of immunity: Robustness in the tissue reconstruction system. *Seminars in Immunology* 36, 45-55

✚ Eberl G, Pradeu T (2018) Towards a General Theory of Immunity? *Trends in Immunology* 39, 261-3.

✚ Pradeu T (2017) Thirty years of *Biology & Philosophy*: Philosophy of which biology? *Biology & Philosophy* 32(2), 149-167.

✚ ♠ Laurent P, ... Truchetet M-E, Pradeu T (co-senior authors) (2017) Immune-Mediated Repair: A Matter of Plasticity. *Frontiers in Immunology* 8, 454.

✚ ♠ Chiu L, Bazin T, Truchetet M-E, Schaevebeke T, Delhaes L & Pradeu T (2017) Protective Microbiota: From Localized to Long-Reaching Co-Immunity. *Frontiers in Immunology* 8, 1678.

✚ Pradeu T (2016) The many faces of biological individuality. *Biology & Philosophy* 31(6), 761-773.

✚ Pradeu T (2016) Organisms or biological individuals? Combining physiological and evolutionary individuality. *Biology & Philosophy* 31(6), 797-817.

✚ Pradeu T & Vivier E (2016) The Discontinuity Theory of Immunity. *Science Immunology* 1(1).

✚ Pradeu T, Kostyrka G, & Dupré J (2016) Understanding viruses: Philosophical investigations, *Studies in History and Philosophy of Biological and Biomedical Sciences* 59, 57-63.

✚ Pradeu T (2016) Mutualistic viruses and the heteronomy of life, *Studies in History and Philosophy of Biological and Biomedical Sciences* 59, 80-88.

✚ Pradeu T, Laplane L, Prévot K, Hoquet T, Reynaud V, Fusco G, Minelli A, Orgogozo V, and Vervoort M (2016) Defining 'development', *Current Topics in Developmental Biology*, 117, 171-183.

✚ Pradeu T, Jaeger S, Vivier E (2013) The Speed of Change: Towards a Discontinuity Theory of Immunity? *Nature Reviews Immunology* 13, 764-769.

✚ Pradeu T, Cooper EL (2012) The Danger Theory: 20 Years Later. *Frontiers Immunol.* 3, 287.

✚ Pradeu T (2011) A Mixed Self: Symbiosis in Development. *Biological Theory* 6(1), 80-88.

✚ Pradeu T (2010) What is an organism? An immunological answer. *History and Philosophy of the Life Sciences* 32, 247-268.

✚ \* Carosella ED, Pradeu T (2006) Transplantation and Identity: A Dangerous Split. *The Lancet* 368(9531), 183-184.

✚ \* Pradeu T, Carosella ED (2006) On the definition of a criterion of immunogenicity. *Proceedings of the National Academy of the Sciences USA*, 103(47), 17858-61.

✚ \* Pradeu T, Carosella ED (2006) The Self Model and the Conception of Biological Identity in Immunology. *Biology and Philosophy* 21(2), 235-252.

### 3. Edition of special issues (S.I.)

✚ Ferner A & Pradeu T (eds., (2017) Guest ed., S.I. "Ontologies of Living Beings", *Philosophy, Theory, and Practice in Biology*, Volume 9.

✚ Pradeu T (ed., 2016) Guest ed., S.I. "Biological Individuality". *Biology & Philosophy* 31(6), 761-930.

✚ Pradeu T., Kostyrka G., & Dupré J. (eds., 2016) S.I. "Understanding Viruses: Philosophical Investigations", *Studies in History and Philosophy of Biological and Biomedical Sciences* 59, 57-153.