

CURRICULUM VITAE

(Adrian Stencel)

(August 2021)

CONTACT

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ACADEMIC BACKGROUND

Education

- Jagiellonian University, PhD in Philosophy 2020
- Jagiellonian University, master`s degree in biology 2014
- Opole University, bachelor`s degree 2012

Research stays

- University of Sydney, Australia 2019
- University of Bordeaux, France 2018-2019
- University of Exeter, United Kingdom 2017

AREAS OF SPECIALIZATION

Philosophy of Biology, Philosophy of Science, Theoretical Biology, Evolutionary Biology

EXPERIENCE

University appointments

- Assistant professor, Jagiellonian University 2020-
- Research assistant, Jagiellonian University 2018-2020

Peer-review publications:

- **Stencel.** A Why the Evolution of Heritable Symbiosis neither Enhances nor Diminishes the Fitness of a Symbiont. *Philosophy, Theory, and Practice in Biology (PTPBio)*, accepted; special issue edited by Derek Skillings
- **Stencel A.** and Suárez J. (2021) Do somatic cells really sacrifice themselves? Why an appeal to coercion may be a helpful strategy in explaining the evolution of multicellularity. *Biological Theory* 16, 102–113.
- **Stencel, A.** (2021). Do seasonal microbiome changes affect infection susceptibility, contributing to seasonal disease outbreaks? *BioEssays*, 43, e2000148.

- Ronai I., Greslehner G.P. Boem F., Carlisle J., **Stencel A.** et al. “Microbiota, symbiosis and individuality summer school” meeting report. *Microbiome* **8**, 117 (2020).
- Suárez J. and **Stencel A.** 2020: A part-dependent account of biological individuality: why holobionts are individuals and ecosystems simultaneously. *Biological Reviews*, 95: 1308-1324.
- **Stencel A.** and Włoch-Salamon D. 2018: Some Theoretical Insight into Hologenome Theory of Evolution and the Role of Microbes in Speciation. *Theory in Biosciences*, 137: 197–206.
- **Stencel A.** and Proszewska A. 2018: How Research on Microbiomes Is Changing Biology: A Discussion on the Concept of the Organism. *Foundations of Science*, 23: 603–620.
- **Stencel A.** and Proszewska A. 2017: W poszukiwaniu uniwersalnej koncepcji organizmu. *Problem indywidualizacji. Filozofia Nauki* 4 (100) 115–128.
- **Stencel A.** 2016: The Relativity of Darwinian Populations and the Ecology of Endosymbiosis. *Biology & Philosophy* 31 (5): 619–637.
- **Stencel A.** and Crespi B. 2013: What is a genome? *Molecular Ecology* 22 (13): 3437–43.

Book chapters

- **Stencel A.** 2017: Dobór Naturalny. Zarys Problemów Filozoficznych [In:] Główne problemy filozofii biologii. Chodasewicz K, Grabizna A., Proszewska A., Stencel A. i Ziemny A. (ed.) IFiS PAN, Warszawa. Library of the Philosophy and Science.

Book reviews

- Stencel A. “SAMIR OKASHA, *Agents and Goals in Evolution*. Oxford: Oxford University Press, 2018, 254 pp., \$40.00” *History and Philosophy of the Life Sciences. HPLS* **42**, 6 (2020)

Science popularization publications

- Człowiek i jego symbiotyczne mikroorganizmy: wielość czy jedność? (Filozofia w praktyce 2017, portal internetowy).
- Does inheritance need a rethink? With Veigl S., Suárez J., i **Stencel A.** (Evolutionary Synthesis Blog 2020, portal internetowy).

Edited volumes:

- Chodasewicz K., Grabizna A., Proszewska A., **Stencel A.** i Ziemny A. (ed.) *Główne Problemy Filozofii Biologii* IFiS PAN, Warszawa. Library of the Philosophy and Science, 2017.

Principal investigator of the following research projects

- **2019-2020** “What is a genome”, Jagiellonian University, Internal grant (10 000 PLN ~ 2500 EUR).

- **2018-2021:** “A philosophical analysis of fitness commensurability. Case study: evolutionary transitions in individuality”, National Science Centre (NCN), Grant Opus (452 620 PLN ~ 110 000 EUR).
- **2018-2019:** “Reconceptualization of the foundations of population biology. Case study: host-microbes interactions”, National Science Centre (NCN), Grant Etiuda (97 960 PLN~ 25 000 EUR).
- **2018-2019:** “Reconceptualization of the physiological concept of individuality. Case study: holobionts”, Jagiellonian University, Internal grant (10 000 PLN ~ 2500 EUR).
- **2016-2017:** “Are the discoveries of microbiology leading to a revolution in biology?” Jagiellonian University, Internal grant (15 000 PLN ~ 4 000 EUR).
- **2015-2017:** “What is a population? A darwinian perspective”, National Science Centre (NCN), Grant Preludium (57 360 PLN ~ 15 000 EUR).

Selected conference talks

- When you are forced to being nice: Multicellularity is more about coercion than about altruism (ISHPSSB conference, Cold Spring Harbour-online, 2021).
- A part-dependent account of biological individuality: why holobionts are individuals and ecosystems simultaneously (ERC IDEM Final Conference, Bordeaux-online, 2020).
- A part-dependent account of biological individuality: why holobionts are individuals and ecosystems simultaneously (Dynamics of biological systems: from viruses to populations, Kraków-online, 2020).
- Biological individuality and Holobionts (What is a biological individual. Philosophical problems, Kraków 2019).
- Disconnecting commensurability of fitness from natural selection (EPSA Conference, Geneva 2019).
- Fitness incommensurability and evolutionary transitions in individuality (CLMPST Conference, Prague 2019)
- Niche construction as a process of wrecking the reconstitution and its consequences for ecological fitness (ISHPSSB Conference, Oslo 2019).
- Why the evolution of heritable symbiosis neither enhances nor diminishes the fitness of a symbiont? (Fitness Meets Niche Construction and Symbiosis, Kraków 2019).
- Some theoretical insights into the hologenome theory of evolution (Biological Individuality and other Issues in Contemporary Philosophy of Biology, Salzburg 2018)
- How Research on Microbiomes is Changing the Concept of the Organism in Biological Sciences (Salzburg Conference for Young Analytic Philosophy, Salzburg 2018).
- Why isn't slavery a good thing. A detailed look at the ecology of endosymbiosis (Interdisciplinary Workshop on Holobionts, Bordeaux 2017).
- Co to jest biologiczna populacja i czy naprawdę istnieje? (Konferencja Filozofii Nauki i Metod Formalnych w Filozofii, Kraków 2016).
- Czy do zrozumienia ekologii endosymbiozy potrzebna jest rewizja oddziaływań ekologicznych? (Symposium Filozofia Przyrody Dziś, Warszawa 2015).

Conference organization

- What is an biological individual. Philosophical problems (2019)
- Fitness meets Niche Construction and Symbiosis (2019)
- I, II, III Krakowskie Sympozjum Filozofii Biologii (2016, 2017, 2018)

Reviewer for journals

- Biology & Philosophy.
- Philosophy, Theory, and Practice in Biology.
- Quaderns de filosofia.
- BJOG: An International Journal of Obstetrics & Gynaecology.
- Filozofia Nauki.
- History and Philosophy of the Life Sciences.
- Diametros.

Reviewer for funding agencies

- Graduate Women in Science (GWIS)

Teaching

- Methodology of life sciences and philosophy of nature (2014/2015, 2015/2016, 2016/2017, 2017/2018, 2020/2021), in Polish
- Philosophy of science, for PhD students (2020/2021), in English
- Philosophy of science with elements of logic, for PhD students (2020/2021), in English

Participation in training workshops:

- Jagiellonian Interdisciplinary PhD Programme (Organized by Jagiellonian University, Kraków 2019-2020).
- Summer school “Microbiota, Symbiosis and Individuality” (Organized by ERC IDEM, Biarritz 2019).
- Prezentacja zagadnień naukowych dla różnych grup odbiorców (Organized by “Fundacja na rzecz Nauki Polskiej”, Kraków 2015)

Membership

- The International Society for the History, Philosophy, and Social Studies of Biology (*ISHPSSB*).
- Polish Association for Logic and Philosophy of Science.
- East European Network for Philosophy of Science (EENPS).
- PhilInBioMed Network.
- European Philosophy of Science Association

HONOURS

- Scholarship „Start” for outstanding young scientists, Foundation for Polish Science (FNP), 2020.

- Scholarship for outstanding young scientists, Ministry of Science and Higher Education, 2019
- Scholarship of Rector of Jagiellonian University for the best students 2016/2017, 2019/2020
- Quarry Life Award 2013 laureate (2nd place in the national contest).
- Opole University Rector`s Price, 2013