Conceptual and Methodological Aspects of Biomedical Research

28-30 October, 2020

Department of Analytic Philosophy, Institute of Philosophy, Czech Academy of Sciences

Main organizer: Martin Zach (zach@flu.cas.cz)
More information and online registration here

Invited speakers:

Meritxell Alberich Jordà (Laboratory of Haematooncology, Institute of Molecular Genetics, Czech Academy of Sciences)

Soňa Hubáčková (Laboratory of Molecular Therapy, Institute of Biotechnology, Czech Academy of Sciences)

Lucie Laplane (CNRS, IHPST Université Paris I-Panthéon-Sorbonne, Institut de Cancérologie Gustave Roussy)

Barbara Osimani (Faculty of Medicine, Polytechnic University of Marche at Ancona)

Anya Plutynski (Department of Philosophy, Washington University in St. Louis)

Jacob Stegenga (Department of History and Philosophy of Science, University of Cambridge)

Michal Šmahel (Laboratory of Immunotherapy, Faculty of Science, Charles University in Prague & BIOCEV)

Jaromír Šrámek (Institute of Histology and Embryology, First Faculty of Medicine, Charles University in Prague & Czech Skeptics' Club Sisyfos)

Jiří Vejmelka (Department of Internal Medicine, Thomayer Hospital & Third Faculty of Medicine, Charles University in Prague)

Time zone: Prague (CET = UTC+1)

October 28, 2020

14:15 – 15:15	Anya Plutynski (Department of Philosophy, Washington University in St. Louis)
	Big Data, AI, and Precision Oncology: Is More Better?
15:15 – 15:45	Katherine Valde (Philosophy Department, Wofford College)
	Using Metaphysics to Institutionalize Pluralism
16:00 – 16:30	Marina DiMarco (Department of History and Philosophy of Science, University of Pittsburgh) Wishful Intelligibility
16:30 – 17:00	Michel Shamy (Departments of Medicine & Epidemiology, University of Ottawa & Ottawa Hospital Research Institute) The Evidential Problem of Randomized Clinical Trials: Assessing Physicians' Beliefs

17:15 – 17:45	Jonathan Fuller (Department of History and Philosophy of Science, University of Pittsburgh)
	To Prevent, To Cure
17:45 – 18:15	Devora Shapiro (Philosophy Faculty, Southern Oregon University)
	Medical Outliers, Intersectional Subjects, and the Peculiar Failure of the Differential: A Proposal for Improvement
18:30 – 19:00	Christopher Donohue (National Human Genome Research Institute, NIH)
16.30 - 13.00	
	'Missing Heritability' and the 'Existential' Crisis of Genomics
19:00 – 19:30	Kari Theurer (Department of Philosophy, Trinity College)
	Disorder As Dysfunction: Adaptationism and Teleology in Psychiatry

October 29, 2020

9:40	Martin Zach & Ondřej Ševeček (Institute of Philosophy, Czech Academy of Sciences)
	Introduction: Bringing together philosophers, scientists, and medical doctors
10:00 - 11:00	Lucie Laplane (CNRS, IHPST Université Paris I-Panthéon-Sorbonne, Institut de Cancérologie Gustave Roussy)
	Stem cell: Between philosophy and biology
11:00 - 11:30	Laurence Huc (Toxalim, INRA & University of Toulouse)
	What is a carcinogen? bridging the gap between basic biology and regulatory toxicology
Break	
12:00 – 12:40	Soňa Hubáčková (Laboratory of Molecular Therapy, Institute of Biotechnology, Czech Academy of Sciences)
	Targeting cellular senescence as a new strategy in treatment of age-related diseases
12:40 - 13:10	Jonathan Sholl (ImmunoConcEpT, CNRS UMR 5164, University of Bordeaux)
	Mobilizing Biogerontology and Immunology in the Project of Theorizing Health
Lunch break	
14:30 – 15:30	Jaromír Šrámek (Institute of Histology and Embryology, First Faculty of Medicine, Charles University in Prague & Czech Skeptics' Club Sisyfos)
	Evidence-based medicine: Fisher, Bayes, and medical education in the Czech Republic
15:30 – 16:00	Mariusz Maziarz (Interdisciplinary Centre for Ethics & Institute of Philosophy, Jagiellonian University)
	Causal pluralism in medicine and its implications for clinical practice
Break	

16:30 - 17:10	Jiří Vejmelka (Department of Internal Medicine, Thomayer Hospital & Third Faculty of Medicine, Charles University in Prague)
	Gut microbiota modulation in IBS – novel challenges
17:10 - 17:40	Gregor Greslehner (Department of Philosophy, University of Vienna & ImmunoConcEpT, CNRS UMR 5164, University of Bordeaux)
	Quo vadis, immunology? Towards a new theory of immunological recognition

October 30, 2020		
10:00 – 11:00	Jacob Stegenga (Department of History and Philosophy of Science, University of Cambridge) The Medicalisation of Sexual Desire	
11:00 – 11:30	Michaela Egli (Department of Philosophy, University of Geneva) Can Pragmatic Clinical Trials Measure Effectiveness?	
Break		
12:00 – 12:40	Michal Šmahel (Laboratory of Immunotherapy, Faculty of Science, Charles University in Prague & BIOCEV) Cancer Immunotherapy: Overcoming Tumor Immune Escape	
12:40 – 13:10	Elena Rondeau (ImmunoConcEpT, CNRS UMR 5164, University of Bordeaux) Understanding cancer progression and its control: An analysis of immune contribution to metastasis	
Lunch break		
14:30 – 15:30	Barbara Osimani (Faculty of Medicine, Polytechnic University of Marche at Ancona) The Causal Structure of Epistemic Environments	
15:30 – 16:00	Alessandro Blasimme (Department of Health Sciences and Technology, ETH Zurich) Interpreting medical algorithms: Opacity, explainability and the epistemology of future medicine	
Break	, , , , , ,	
16:30 – 17:10	Meritxell Alberich Jordà (Laboratory of Haematooncology, Institute of Molecular Genetics, Czech Academy of Sciences) Understanding the molecular basis of blood cell production: the β-catenin-TCF/LEF signaling pathway in hematopoiesis	
17:10 – 17:40	Simon Lohse (Centre for Ethics and Law in the Life Sciences, Leibniz University Hannover) Scientific inertia in replacing animal experimentation in biomedicine	