

# CONCEPTUAL AND METHODOLOGICAL ASPECTS OF BIOMEDICAL RESEARCH

28 – 30 October, 2020

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

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) *'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 Sceptics' 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 Haematology, Institute of Molecular Genetics, Czech Academy of Sciences) *UNDERSTANDING THE MOLECULAR BASIS OF BLOOD CELL PRODUCTION: THE B-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*

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

[pmpos.flu.cas.cz/biomedicine-2020](https://pmpos.flu.cas.cz/biomedicine-2020)