

Joint meeting

Philosophy of Personalized Medicine & Philosophy of Human Technology

Session 1 | 10h00-12h45

“Personalized Medicine: Societal and Ethical Challenges”

Session 2 | 14h30-18h00

“*Melioratio ad Optimum?* Enhancement, the Future of Medicine and the Concept of Health”

05 JUNE 2015

Faculdade de Ciências da Universidade de Lisboa

Room 8.2.39 (Building C8, 2nd Floor)

FREE ENTRANCE



MORE INFORMATION

Center for Philosophy of Science of the University of Lisbon (CFCUL)

Faculty of Science, University of Lisbon

Campo Grande, C4 Building, 3rd Floor, Room 04.03.24

1749-016 Lisbon, Portugal

E-mail: cdlisboa@fc.ul.pt | Telf.: (351) 217 500 365

INSCRIPTION IS FREE

ATTENDANCE CERTIFICATES WILL BE PROVIDED ON DEMAND

ORGANIZAÇÃO



APOIO



PROGRAM

Joint meeting

Philosophy of Personalized Medicine & Philosophy of Human Technology

Health, wellbeing and psycho-physical performance are major concerns for the citizens of contemporary Europe, where a potential transformation of the concepts of health and disease is underway, under the impact of genomic-driven medicine and the development of technologies for human, cognitive, emotional and physical improvement.

In this joint meeting two thematic lines of the Center for Philosophy of Science of the University of Lisbon (CFCUL) – Philosophy of Personalized Medicine and Philosophy of Human Technologies – come together to provide prompts for discussion of epistemological, (bio)ethical, and societal issues related to personalized medicine and technologies for individual, cognitive, mood, and moral enhancement. In so doing we hope to contribute to the debate over the transformation of medicine in a changing society.

PHILOSOPHY OF PERSONALIZED MEDICINE

10h00-10h15 General presentation of the joint meeting: Olga Pombo (CFCUL Director)

SESSION 1: “PERSONALIZED MEDICINE: SOCIETAL AND ETHICAL CHALLENGES”

Personalized Medicine (PM) is expected to provide an individualized treatment for each patient, tailored on his or her genetic makeup. This approach to medicine and health care was propelled by the explosion of “omics” technologies that followed the sequencing of the human genome in 2003, and is based on the development of new diagnostic and therapeutics tools (from genetic probes to molecular medical imaging) that target molecular and cellular processes. It is hard to say at the moment if PM will be some day up to its promises, but we know for sure that in the process it is likely to re-define our notions of health and disease, treatment and prevention, epidemiology and diagnosis. Considering the practical possibilities provided by new technologies (e.g. mass screening for genetic diseases), PM poses philosophical, ethical, legal, social and political challenges. In depth analysis and wide discussion of these issues are thus fundamental for the definition of both theoretical and regulatory frameworks for medical research and practice. In this conference, the first of a series of meetings on Personalized Medicine organized in the framework of the CFCUL Strategic Plan 2015-2020, we invited a philosopher of science, Prof. Giovanni Boniolo, and sociologist, Prof. Susan Kelly, to address the question of what molecular medicine is and how people envisage the possibility to easily access genetic screen tests.

10h15-10h30 António Barbosa (FMUL, CFCUL): *Introduction*

10h30-11h30 Susan Kelly (University of Exeter): *Selling genetic tests online: From users of direct to consumer testing, to personalized medicine*

Q&A session moderated by Mara Almeida (ITQB, UNL)

11h30-11h45 Coffee break

11h45-12h45 Giovanni Boniolo (Università degli Studi di Milano, IEO): *What is molecular medicine and what are its ethical implications?*

Q&A session moderated by Silvia Di Marco (CFCUL)

12h45-14h30 Lunch Break

SESSION 2: "MELIORATIO AD OPTIMUM? ENHANCEMENT, THE FUTURE OF MEDICINE AND THE CONCEPT OF HEALTH"

This symposium will explore questions raised by enhancement in philosophy of medicine and medical bioethics, neurotechnologies and pharmacology, as well as the challenges that policymakers face today in relation to enhancement devices in health related issues. The pursue and perils of invasive therapies, as well as Virtual Reality Enhancements will be debated in relation to psychiatry. What changes will enhancement tools, drugs and technologies introduce in (personalized) medicine? Should we go beyond the split between neo-eugenic optimism and bio-conservative pessimism in ethics to contribute to a medical praxis-oriented ethics of (cognitive, corporal, moral or affective) enhancements? What are practical, epistemological, ethical, political and legal difficulties medical praxis is faced in relation to enhancements today and in the future? Will it be still possible to distinguish between therapy and enhancement? If so, under what conditions and under which conception of health? How do our concepts of medicine and health change facing new enhancement drugs and technologies? Are we heading towards a concept of medicine that can be described as "melioratio ad optimum"? How does enhancement question the relation between biomedical facts and individual or societal norms in medical praxis and towards concepts health? Do freely accessible enhancement technologies and globally accessible enhancement drugs call for an extended peer review, including an inclusion of multiplicity of stakeholders in the debate? Should policy makers follow the classical precautionary principle or advance with more liberal "proactionary" approaches? Does the differentiator "invasiveness/non-invasiveness" in relation to enhancement technologies still hold in relation for example to Virtual Reality mind/cognitive enhancements? Legally, what does "cognitive liberty" imply for the future of medicine and the concepts of health?

14h30-14h45 Alexander Gerner (CFCUL): *Introduction*

14h45-15h45 Vojin Rakić (Center for the Study of Bioethics, CSB, Beograd): *The Value of Oxytocin as a Moral Enhancer*

15h45-16h00 Q&A session moderated by Alexander Gerner (CFCUL)

16h00-16h15 Coffee break

ROUNDTABLE

"MELIORATIO AD OPTIMUM? ENHANCEMENT AND THE FUTURE OF MEDICINE AND THE CONCEPT OF HEALTH"

16h15-16h45 Alexander Gerner (CFCUL): *Philosophical and policy issues of >Enhancement< (cognitive, social, moral, virtual) in relation to different concepts of (mental) Health and Medicine*

16h45-17h15 Miguel Barbosa (FMUL, CFCUL): *Ethical perspectives about human enhancement technologies*

17h15-17h45 Nuno Nabais (CFCUL): *Foucault on medicine and enhancement as care of the self*

17h45-18h15 Final Debate with Vojin Rakić, Alexander Gerner, António Barbosa and Nuno Nabais

INVITED SPEAKERS BIOGRAPHIES



Susan Kelly is associate professor and director of PG studies at the Department of Sociology, Philosophy and Anthropology of the University of Exeter (UK). Her research interests centre around the development of new biomedical forms of investigation and intervention into human bodies and beings, focusing particularly on

the arenas of reproduction (prenatal testing and diagnosis), psychiatric genetics, childhood disorders, and complex diseases. Her current interests focus on implications of next generation sequencing and post-genomic science for biomedical understanding and clinical practice, and problems of interpretation and clinical introduction of whole genome sequencing data. As director of the Health, Technology and Society (HTS) Research Group, which has grown out of Egenis (ESRC Centre for Genomics in Society), she oversees the research activities of a group of research fellows involved in a variety of projects examining developments in the science and technology of medicine, genomic medicine in particular. She is PI of the project 'Mainstreaming genomic medicine: Is there a duty to recontact?' funded by the ESRC/MRC. Kelly has published extensively in international journals, including PlosOne; Science; Theory, Culture and Society; Science as Culture, Sociology of Health and Illness. She has authored chapters in several volumes and is currently working on a book entitled *Parenting in the Genetic Age: Impairment, Intervention and Genes*.



Giovanni Boniolo is full professor of Logic and Philosophy of Science, at the School of Medicine, University of Milan, where he teaches Medical Humanities, Logic and Rhetoric (Critical thinking), Clinic Ethics, and Practical Ethics. Since 2006, he has been director of the PhD program in "Foundations of the Life Sciences and their Ethical Consequences" of the European School of

Molecular Medicine and University of Milan. He is also director of the Biomedical Humanities Unit, Department of Experimental Oncology, Istituto Europeo di Oncologia (IEO, Milan). His research focuses on the philosophical foundations of the life sciences and on bioethics. For what regards the foundations of the life sciences, he works on the explication of philosophical concepts by means of empirical sciences, especially biomedicine, and is involved in a project dealing with the formulation of a logical language for molecular biology. For what regards bioethics, he is concerned with the proposal of a deliberative method to correctly debate the ethical evaluation of human actions regarding the production and use of biological and biomedical results, and with application of a liberal approach to questions that daily arise from society and from the researches done at the IFOM-IEO Campus. Boniolo's publications include about 190 papers, most of them published in international peer reviewed journals, and twelve books, including *The Art of Deliberating. Democracy, Deliberation and the Life Sciences Between History and Theory*, Springer, 2012; *Strumenti per ragionare. Logica e teoria dell'argomentazione*, Bruno Mondadori, 2011 (with P. Vidali); *Individuo e persona. Tre saggi su chi siamo*, Bompiani, 2007, (with G. De Anna, U. Vincenti); *On Scientific Representation. From Kant to a New Philosophy of Science*, Palgrave Macmillan, 2007. He is the editor in chief of Springer Briefs on Ethical and Legal Issues in Biomedicine and Technology.

INVITED SPEAKERS BIOGRAPHIES



Vojin Rakić, PhD, is a philosopher and political scientist and professor at the Institute for Philosophy and Social Theory at the University of Belgrade. He is Head of the Serbian Unit of the UNESCO Chair in Bioethics and Chair of Cambridge Working Group for Bioethics Education in Serbia. Rakić is also Head of the Central and Eastern European Network of the UNESCO Chair in Bioethics. Rakić holds a PhD

in Political Science from Rutgers University in the United States (1998). He graduated philosophy in Serbia, and has MA degrees in European Studies from the Central European University in Prague and from the Department of Political Science of Rutgers University. He worked as a senior research fellow at the Center for Higher Education Policy Studies at the University of Twente in the Netherlands (1999-2001). Between 2001 and 2003 he was a U.N. Special Adviser to the Government of Serbia. Since 2003 he works as a university professor in Belgrade. Rakić publishes primarily in English. His publications include various books and edited collections (recently: an edited volume published by Routledge), as well as numerous articles from the domain of (bio-)ethics, and political philosophy (recent publications: articles in the *Journal of Medical Ethics*, *American Journal of Bioethics* and the *Cambridge Quarterly of Health Care Ethics*). Vojin Rakić is the Director of the Center for the Studies of Bioethics (CSB, Belgrade) http://www.csb.eu.com/index_en.html where he co-organized with Julian Savulescu the international conference "Enhancement: Cognitive, Moral and Mood" held in Belgrade in 2013 and actually prepares the next conference on "Enhancing the Understanding of Enhancement" joint with the Hastings Center in October 2015 at the CSB.

ORGANIZATION

Center of Philosophy of Science of the University of Lisbon (CFCUL)

Thematic line "Philosophy of Personalized Medicine"

António Barbosa and Sílvia Di Marco

Thematic line "Philosophy of Human Technology"

Alexander Gerner

The Center of Philosophy of Science, University of Lisbon (CFCUL) is an R&D unit of the University of Lisbon established in 2003 and funded by the Foundation for Science and Technology. CFCUL is associated to the Faculty of Sciences. This makes possible to develop a side-by-side work with scientists from a wide disciplinary spectrum. Taking in consideration the interdisciplinary nature of contemporary science, CFCUL runs since 2014 an "International Doctoral Program in Philosophy of Science, Technology, Art and Society".

CFCUL is organized in five Research Groups: Epistemology and Methodology; Philosophy of Natural Sciences; Philosophy of Life Sciences; Philosophy of Human Sciences, Ethics and Politics; Science and Art. These RGs are articulated through four Thematic Lines: Unity of Science and Interdisciplinarity; Personalized Medicine; Philosophy of the Human Technologies; Sci-Art-Philo Lab.

CFCUL publishes *Kairos. Revista de Filosofia & Ciência*, a peer-reviewed open access journal with articles in English, Portuguese, French and Spanish (kairos.fc.ul.pt), and five collections of books: *Cadernos de Filosofia das Ciências*, *Thesis*, *Documenta*, *Fundamentos e Desafios do Evolucionismo*, *A Imagem na Ciência e na Arte*.