



## **Workshop: Research Ethics and Medical Technology**

Location: Aristotle University Thessaloniki, School of Economic (Auditorium)

Time: 10 September, 9:00am-4:00pm

Workshop leaders: Dr Alexander Bagattini and Rahel Martjan, M.A. (KIT Academy for Responsible Research, Teaching and Innovation)

### **Program**

#### **I. Introduction**

9:00-9:30 General round of introductions. Warm-Up: what is research ethics and why do we need it?

#### **II. Scientific Integrity**

9:30-11:00 Covering general topics in research ethics: What is scientific misconduct and how can I avoid it? Here some basic concepts are introduced (ethos of science, fraud vs. sloppiness, intellectual property, etc.) then cases are discussed.

11:00-11:30 Coffee Break

#### **III. Research Ethics in Reproductive Medicine**

11:30-13:00 Discussion of selected ethical topics in reproductive medicine. For example: informed consent (risks, benefits and alternatives to procedures), genetic screening (positive vs. negative selection), surrogacy (commodification of women's bodies?), sperm and egg donation (open or anonymized?)

13:00-14:00 Lunch

#### **IV. Research Ethics in Digital Health**

14:00-15:30 Discussion of selected ethical topics in digital health. For example: Introduction to Digital Health, differentiation between regulated and non-regulated part of Digital Health and its implications on data security and privacy, accountability (for example in cases of self-diagnosis), commercial interests and conflicts of interest, equity and access (Is there fair access to the technologies and services?)

15:30-16:00 **Final Discussion**

## **Abstract**

The workshop on research ethics in medical technologies aims to provide a comprehensive overview of ethical considerations essential for conducting research in this rapidly evolving field. By the end of the workshop, participants will be equipped with the knowledge and tools necessary to navigate ethical dilemmas and uphold the highest standards of integrity in their research endeavors.

In the first part of the workshop, we will address general questions on research ethics such as recognizing and, more importantly, avoiding scientific misconduct. We will define fundamental terms such as the ethos of science, intellectual property, fraud, authorship, etc. and discuss their application on the basis of relevant cases. In the second part, we examine ethical issues related to reproductive medicine including informed consent, data privacy, conflict of interest, positive and negative selection and ethical issues surrounding donorship. The third and last part of the workshop is designed to explore the complex ethical considerations that arise in the intersection of healthcare and technology. Participants will delve into topics such as data privacy, informed consent, algorithm bias, and the ethical implications of emerging technologies in healthcare. Through interactive discussions and case studies, participants will develop a deeper understanding of how to navigate ethical challenges in digital health research.

The workshop is intended for young scientists from the fields of medicine and engineering with a focus on medical technologies. No prior knowledge of ethics is required, as we will introduce all terms and discuss them through relevant case studies during the workshop.