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Biobanks, data sharing and the risks of privacy breaches: Rules and models to control security in the omics era

The concept of personalized medicine has brought about a paradigm shift from curing to prevention in medical field. This concept which focuses on preventive medicine has been dramatically improved by the recent development of genome and omics analyses, bioinformatics and biobanks. According to this prospect, large scale integration of health and genome/omics data is becoming common in today

practices and it raises privacy violation risks. This talk would like to focus on rules (e.g., HIPAA, GDPR, Nih Security best practices for controlled-access data) and methods which relate to potential privacy breaches in order to identify security control measures. In particular it focuses on policies developed to secure patient/donor privacy in relation to data/big data handling in and out of biobanks.

Biography

Elena Salvaterra is a jurist doctor and Ph.D in Law of Science After a few years spent at academia (University of Milan), she collaborated with the Biological Resource Center of the Polyclinic University Hospital in Milan as social scientist. She co-founded with Dr. Paolo Rebutta, hematologist, the Laboratory of Bio-Law, dedicated to the study of ethical, regulatory, economic and social aspects associated with therapeutic and research human biobanks. Then, she worked at the research institute "E. Medea" where she conducted several studies as principal investigator on pediatric biobanks.

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