RESEARCH TOPIC DASME3
RISK-IT
Curriculum DASME Standard

Research Area
Cardio

Laboratory name and address
Molecular cardiology

Datascience Supervisor
Simone Serio; Luca Mainardi (Politecnico Milano)

Research Supervisor
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Abstract
The candidate's project will focus on the integration between genetics, imaging and clinical data for bulding a risk score for the prediction of cardiovascular events in the general population. The minimal task of the candidate will be to generate a muliparametric risk score per each recruited individual participating to the study approved by the Ministry of Health project named RISK-IT for the Humanitas site; the candidate will work as a part of the team that includes clinicians, study nurses and data managers.

Main technical approaches
Theoretical knowledge on big data analysis, machine learning, with focus on data integration and fusion, is required, as the task of the candidate is related to the multiparametric data integration (including, but not limited to, bioinformatic analysis of the human genome) for generating a risk assessment score, to be implemented in the clinics.

Scientific references
https://www.nature.com/articles/s41591-024-02796-z

Nat Cardiovasc Res.

10.1038/s44161-022-00154-1

https://www.nature.com/articles/nrg.2016.160

Type of contract

Scholarship of € 25.000 gross per year awarded by Istituto Clinico Humanitas. This sum is subject to IRPEF income tax and exempt from social security contributions.

Borsa di studio pari a € 25.000 annui lordi erogata da Istituto Clinico Humanitas. Importo soggetto a tassazione IRPEF ed esente da contribuzione previdenziale.

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