

## Courtesy translation of D.R n. 180/2023

For more details on the selection process, please refer to the Italian version of D.R. n. 180/2023 available at http://www.hunimed.eu/it/lavora-con-noi/

Research Program Title	
Tutor	Prof. Matteo Giovanni DELLA PORTA
Scientific Area	06 Medical Sciences
Gross amount of the fellowship	27.000,00 Euro
Duration of the fellowship	17
Objectives of the research	Chronic myeloid neoplasms (MN) are disorders of a hematopoietic stem cell characterized by extreme inter- patient variability and, despite recent progresses, still unmet medical needs. In this project, we aim to address those unmet needs through the development of precision medicine approaches based on advanced bioinformatics, statistical and artificial intelligence (AI) technologies, taking advantage of a remarkable set of already available, and prospectively generated, omics and imaging data. The underlying hypothesis is that a precise characterization of the genomic complexity in each patient, coupled with next- gen imaging, may improve disease categorization and prediction of disease evolution and outcome, resulting in improved clinical management. The ultimate goal is to translate this knowledge in innovative, explainable decision support systems for personalized medicine practice.

Activities to be carried out

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