



RESEARCH TOPIC CL18

Applications of Artificial Intelligence for innovative, personalized, and multidisciplinary approaches to early diagnosis and clinical management of patients suffering from immune-rheumatologic diseases

Clinical Unit name

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Abstract

There is an enormous need for the early diagnosis, fine pheno- and endotyping, comorbidities and multidisciplinary assessment, personalized therapy and follow-up in patients with immune-rheumatologic diseases, representing excellent paradigms of complex chronic diseases. Artificial Intelligence (AI; e.g. machine and deep learning, natural language processing) is able to identify patterns usually missed to the human eye, and represents the ideal candidate to supply such clinical and research questions. By analyzing and synthesizing demographic, clinical, instrumental and laboratory information, AI can also integrate innovative experimental data, e.g. derived from advanced -omics techniques.

This three-year project moves from the previous experience with AI within the Humanitas ImmunoCenter and addresses the major unmet needs in the management of immune-rheumatic diseases, translating from clinical care to research. A clinical researcher with interest in Rheumatology and a sound holistic Internal Medicine background is the ideal candidate.

Scientific references

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Type of contract

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