



Press Release

Start of new EU research project HIPPOCRATES: promoting early identification and improving outcomes for patients with psoriatic arthritis

European research organisations, pharmaceutical companies, SMEs and patient organisations have joined forces as partners to develop innovative personalised treatment options for people affected by psoriatic arthritis.

Dublin, 2nd July 2021 – By looking into the disease mechanisms of psoriatic arthritis, the 26 European partners collaborating in the new research project HIPPOCRATES aim at improving diagnostic and therapeutic options for patients living with this condition. Through gaining a better understanding of the complex interplay between clinical and environmental factors, genotype and molecular pathways, the team aims to enable earlier diagnosis and a more accurate prediction of disease progression. This will revolutionise treatment and deliver profound patient benefits. The project will run for a period of five years with a total budget of EUR 21 million provided by the Innovative Medicines Initiative (IMI 2), a Joint Undertaking of the European Union and the European Federation of Pharmaceutical Industries and Associations (EFPIA). Of the total budget, 50 % are contributed by the EFPIA partners (Novartis [EFPIA lead], UCB [EFPIA Co-lead], Pfizer and BMS) and 50 % by the EU.

Psoriatic arthritis (PsA) is a chronic immune-mediated inflammatory disease that affects joints and other components of the musculoskeletal system, together with skin involvement, in an estimated 5-10 million individuals in the EU. The symptoms of the disease, including pain, joint stiffness and fatigue, can impact on many aspects of life including function and productivity. Overall, it is increasingly recognised that PsA is associated with multiple comorbidities, particularly those affecting mental health such as depression and those which promote the development of accelerated atherosclerosis and contribute to the observed increase in cardiovascular morbidity and mortality. PsA most commonly develops on a background of established skin and/or nail psoriasis, however it can be difficult to diagnose as there are no diagnostic criteria or laboratory tests available. This can contribute to diagnostic delay and poor outcomes. PsA is characterised by considerable heterogeneity with regards to clinical features, disease progression and response to targeted therapies. Future treatments will need to focus on earlier disease stages and be selected on the basis of detailed patient molecular profiling so as to limit poor long-term outcomes and possibly prevent the development of PsA altogether.

“We anticipate that the advances provided by HIPPOCRATES will result in significant new developments that improve patients’ quality of life”, says Prof. Oliver FitzGerald, Newman Clinical Research Professor at University College Dublin, Conway Institute for Biomedical and Biomolecular Research, Ireland coordinator of the HIPPOCRATES consortium.

This project has received funding from the Innovative Medicines Initiative 2 Joint Undertaking (JU) under grant agreement No. 101007757. The JU receives support from the European Union’s Horizon 2020 research and innovation programme and EFPIA.



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Co-coordinator, Prof. Stephen Pennington, Professor of Proteomics at University College Dublin and also in the Conway Institute notes “The advances will include the identification of sub-populations and endotypes, the validation of existing and identification of new biomarkers, improved imaging options and the development of a sustainable infrastructure for future PsA research”. “HIPPOCRATES offers the great promise of powerful new tools to advance both early diagnosis and treatment of patients with PsA. Additionally, and to further its effectiveness, HIPPOCRATES retains the focus on the patient, involving Patient Research Partner’s within all aspects of the project”, adds Denis O’Sullivan (Patient Representative Arm of GRAPPA-EU). “This public-private partnership is a great opportunity to decipher this highly heterogenous disease, and to enable the development of novel PsA therapies and treatment strategies including precision medicine approaches”, adds Dr. Christine Huppertz, Senior Principal Scientist in the Disease Area Autoimmunity, Transplantation and Inflammation at Novartis, and EFPIA lead of the consortium.

To this end, the HIPPOCRATES project will set up a single integrated database combining the cohorts and datasets of the most important European PsA studies and establish a Europe-wide library of relevant clinical biosamples. HIPPOCRATES will also establish a large, prospective, observational study of 25,000 patients with psoriasis who will be recruited and followed on-line for development of PsA, with patient-centric blood sampling at defined intervals. Furthermore, the team of experts will evaluate and validate newly discovered biomarker signatures for the early diagnosis of PsA, for the identification of psoriasis patients at risk of developing PsA, for the identification of PsA patients at highest risk of damage progression and for personalised or stratified treatment strategies so as to maximise treatment response. Overall, HIPPOCRATES places particular emphasis on the involvement of patients, clinicians, primary care practitioners, regulators, SMEs (ATTUROS Limited, Oxford Biodynamics Limited and NEOTERYX Limited) and relevant large industry to meet the needs of all stakeholders and to maximise the project’s impact.

Formed as a transdisciplinary consortium, the project team comprises 26 partner institutions from Belgium, Denmark, Germany, Ireland, Italy, Spain, Sweden, Switzerland, the Netherlands, the United Kingdom and the United States of America. Led by University College Dublin, the partners contribute a diverse range of backgrounds including clinical, scientific, data analytics, ethics, patient participation as well as SME and pharmaceutical industry expertise in pursuit of the ambitious goals set for the HIPPOCRATES project.

The first IMI2 project on PsA officially starts on 1st July 2021 and the virtual kick-off meetings took place on the afternoons of the 12th and 17th May 2021.

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Project Key Facts

Full Name: HIPPOCRATES – Promoting Early Identification and Improving Outcomes in Psoriatic Arthritis

Start date: 1st July 2021

Duration: 60 months

Budget: 21 Mio. €

Coordinator: University College Dublin, Conway Institute for Biomedical and Biomolecular Research, Ireland

Website: www.hippocrates-imi.eu

Project Partners

Belgium

- Katholieke Universiteit Leuven
- The European Institute for Innovation through Health Data
- UCB Biopharma SRL
- VIB VZW

Denmark

- Rigshospitalet

Germany

- Eurice - European Research and Project Office GmbH
- Fraunhofer Gesellschaft zur Foerderung der Angewandten Forschung e.V.
- Friedrich Alexander University Erlangen-Nürnberg

Ireland

- ATTUROS Limited
- University College Dublin (UCD)

Italy

- Università Cattolica Del Sacro Cuore

Netherlands

- Academisch Medisch Centrum Bij De Universiteit Van Amsterdam
- Stichting Group for Research and Assessment of Psoriasis and Psoriatic Arthritis EU

Spain

- Consorci Institut D'investigacions Biomediques August Pi I Sunyer

Sweden

- Kungliga Tekniska Hoegskolan

Switzerland

- European League Against Rheumatism
- Novartis Pharma AG
- SIB Institut Suisse de Bioinformatique

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United Kingdom

- King's College London
- Neoteryx Limited
- Oxford Biodynamics Limited
- Pfizer Limited
- University of Glasgow
- University of Manchester
- University of Oxford

United States of America

- Bristol-Myers Squibb Company Corp

Patient Organisations involved in the project:

- EULAR PARE (The European Alliance of Associations for Rheumatology)
- GRAPPA-EU (Group for Research and Assessment of Psoriasis and Psoriatic Arthritis)
- EUROPSO (European Umbrella Organisation for Psoriasis Movements)

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