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PROLEPSIS

Horizon Europe-funded project developing a novel personalised digital care ecosystem for people with PsA

iPROLEPSIS project newsletter

Issue No. 12

July 2026



Inside this issue



Advancing Digital Biomarkers for Psoriatic Arthritis

Publications

Learning Hub

Events



Funded by
the European Union

iPROLEPSIS receives funding from the European Union under Grant Agreement No. 101095697.

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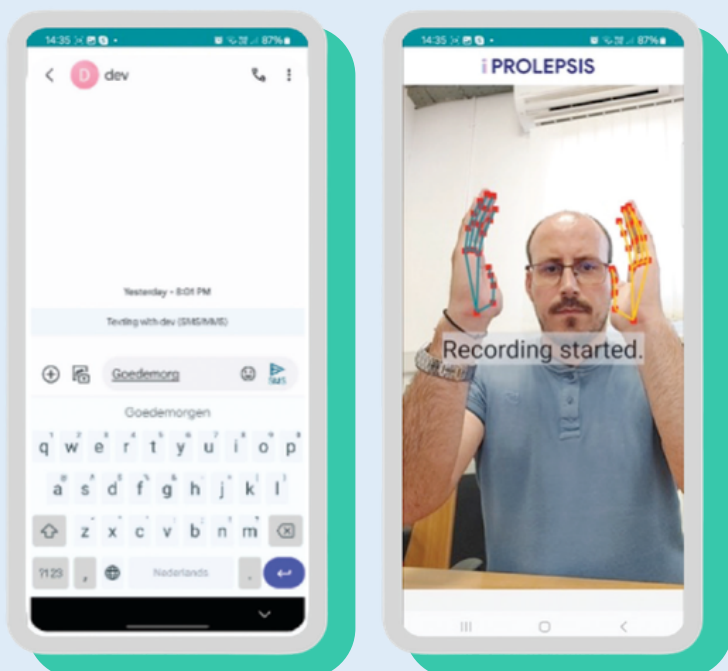
Publications

Transforming Psoriatic Disease Care Through Innovation and Real-World Data: GRAPPA 2025 Soapbox Highlights

Keith Colaco, Juan Raul Castro-Ayarza, Vasileios Charisis and Rodrigo García-Salinas
The Journal of Rheumatology May 2026, jrheum.2026-0371;
DOI: <https://doi.org/10.3899/jrheum.2026-0371>

The Group for Research and Assessment of Psoriasis and Psoriatic Arthritis (GRAPPA) 2025 annual meeting, held in Bogotá, Colombia, featured soapbox presentations highlighting innovative approaches to psoriatic disease (PsD) care.

Dr. Vasileios Charisis presented the Psoriatic Arthritis Inflammation Explained Through Multi-Source Data Analysis Guiding a Novel Personalised Digital Care Ecosystem (iPROLEPSIS) project, which applies digital phenotyping and explainable artificial intelligence to monitor psoriatic arthritis (PsA) using smartphone-based typing dynamics and hand motion tracking. Pilot data demonstrated high accuracy in detecting functional impairments, underscoring the potential of digital biomarkers for personalized disease management.



The mobile application of the Psoriatic Arthritis Inflammation Explained Through MultiSource Data Analysis Guiding a Novel Personalised Digital Care Ecosystem (iPROLEPSIS).

[Read the full paper](#) 



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Learning Hub



Now available in Portuguese

Explore resources in Portuguese to help you understand and manage psoriatic arthritis.

[Visit the Learning Hub in Portuguese](#) ▶



Test your knowledge

Interactive quizzes on living with psoriatic arthritis.



What is psoriatic arthritis?



What causes psoriatic arthritis?



What are the symptoms of psoriatic arthritis?



How is psoriatic arthritis treated?

[See all quizzes](#) ▶

Events

DSAI 2026

23-25 June 2026

iPROLEPSIS was presented at **DSAI 2026, the 12th International Conference on Software Development and Technologies for Enhancing Accessibility and Fighting Info-exclusion**, by the team from the Signal Processing & Biomedical Technology Unit – AUTH. The project contributed to several sessions and presentations focused on digital biomarkers, multimodal digital phenotyping, serious games, artificial intelligence and health monitoring.

Project coordinator Prof. L. Hadjileontiadis moderated the Opening Panel "Translational Research in Rehabilitation, Digital Inclusiveness and Education in the Era of AI" and presented the paper "Multimodal Digital Phenotyping in Psoriatic Arthritis, Parkinson's Disease, and Breast Cancer: Tri-project Insights from iPROLEPSIS, AI-PROGNOSIS, and REBECCA".

Prof. L. Hadjileontiadis, V. Charisis and S. Hadjidimitriou co-chaired the Special Track "Digital Biomarkers' Potentialities: From Digital Phenotyping to Systemic Thinking in Health and Education", and V. Charisis also chaired the session "Artificial Intelligence and Emerging Technologies in Education".

The iPROLEPSIS Serious Games were presented by Bárbara Ramalho from Faculdade de Motricidade Humana-University of Lisbon, who gave a presentation titled "Digital Biomarkers in Serious Games for Patients with Psoriatic Arthritis: The iPROLEPSIS Games Paradigm".



[Read more](#)



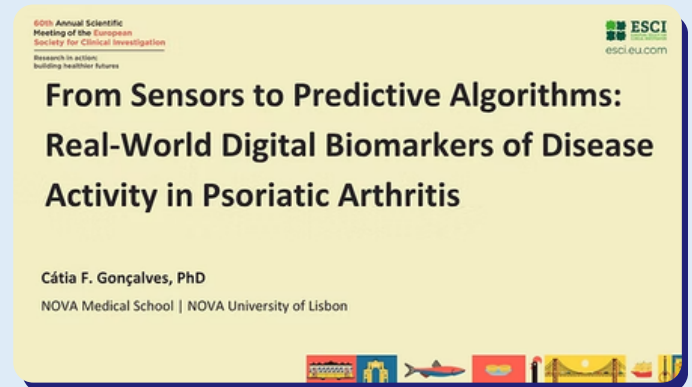
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Events

60th ESCI Annual Scientific Meeting

3-5 June 2026

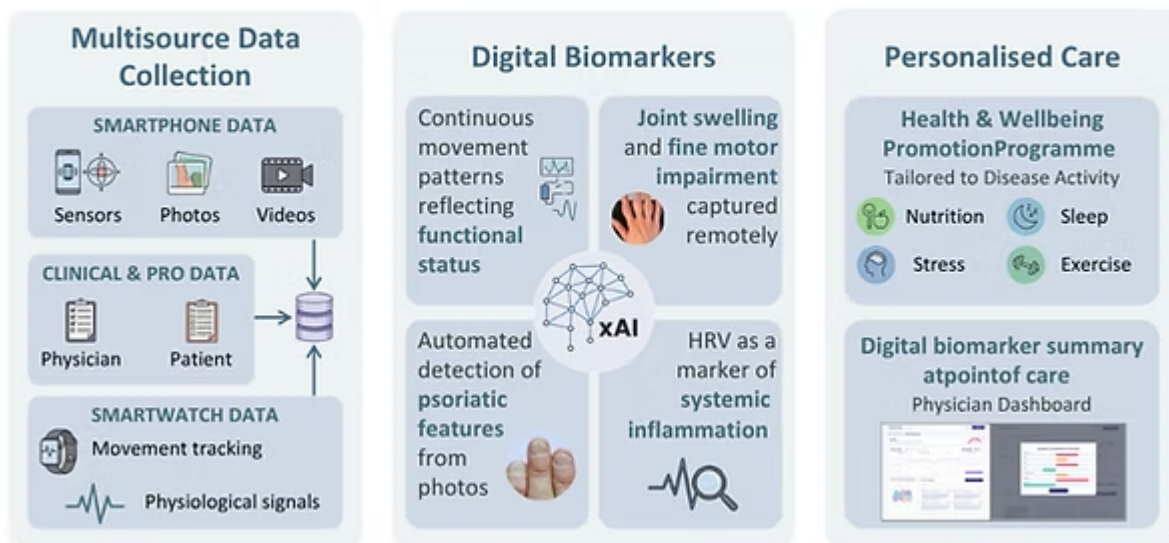
On 3-5 June 2026, the **European Society for Clinical Investigation (ESCI)** held its 60th Annual Scientific Meeting at NOVA Medical School in Lisbon, Portugal, themed "Research in action: building healthier futures".



iPROLEPSIS was represented by Cátia F. Gonçalves, who gave a presentation on the PDPID study – a prospective, real-world observational cohort study conducted across four European countries as part of the iPROLEPSIS project.

The study investigates the use of smartphone and smartwatch sensor data, combined with patient-reported outcomes and clinical assessments, to develop digital biomarkers capable of monitoring disease activity and predicting flares in psoriatic arthritis.

Vision – From Data to Personalised Care



[Read more](#)



Events

iPROLEPSIS 8th Plenary Meeting in Athens

8-9 June 2026

The iPROLEPSIS consortium held its **8th Plenary Meeting** on 8–9 June 2026 in Athens, Greece, hosted by project partners DBC and Ainigma Technologies. Partners reviewed the project's latest progress and aligned on priorities for the coming months.

Over two days, the consortium discussed updates across all active areas of the project – from data harmonisation and predictive modelling to clinical study status, platform development, and dissemination and communication activities. Progress on exploitation and regulatory planning was also presented.

An External Advisory Board (EAB) session was held, where board members reviewed key project results and provided scientific and strategic feedback.



Aristotle Innovation Forum 2026

18-22 May 2026

iPROLEPSIS took part in the **Aristotle Innovation Forum 2026**, held in Thessaloniki, Greece, from 18–22 May 2026. This year's Forum, themed "Aristotle Meets AI", focused on innovation, technology, and artificial intelligence, bringing together the academic community and the general public.

The iPROLEPSIS team from the Signal Processing & Biomedical Technology Unit – AUTH represented the project, showcasing the iPROLEPSIS digital health ecosystem.

Visitors had the opportunity for hands-on experience with our tools, designed to support better psoriatic arthritis care.

The Forum offered an important opportunity to present iPROLEPSIS to both academic and general audiences.





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Events

European OHDSI Symposium 2026

18-20 April 2026

At the **European OHDSI Symposium 2026** in Rotterdam, project partner AINIGMA presented a poster entitled Cross-Country Harmonization of Psoriatic Arthritis Cohorts: A Real-World Data Study in the context of the iPROLEPSIS project.

To identify key inflammation drivers, the team harmonised two national psoriatic arthritis cohorts – the Portuguese Reuma.pt registry and the Dutch DEPAR cohort – into the OMOP Common Data Model (OMOP CDM). This enabled standardised cross-country and sex-stratified analyses.

This work shows the value of harmonising data from different national PsA registries into the OMOP CDM to make standardised real-world analyses across European healthcare systems possible. This integration opens up new possibilities for advanced analytics, such as federated studies and AI-driven prediction models, beyond this proof-of-concept analysis, advancing iPROLEPSIS's goal of personalised, data-driven care.



[Read more](#)

TeraMed Conference 2026

16 April 2026

Filipa Magalhães from Faculdade de Motricidade Humana-University of Lisbon presented the iPROLEPSIS project and the iPROLEPSIS Games at the **TeraMed Conference 2026**, held on 16 April 2026 in Angola, which brought together stakeholders to discuss digital health solutions in the Angolan context.

During her talk, she highlighted the project's potential to support digital health solutions through a gamified approach – especially relevant given the limited availability of psoriatic arthritis-related data across Angola and other African countries with young populations.

The co-creation methodology behind the iPROLEPSIS Games was also showcased as a strong example for developers, reinforcing the value of involving users early to better address real needs and increase engagement.



[Read more](#)