



CIABIOMED 2025

I CONFERENCE OF THE SPANISH SOCIETY OF ARTIFICIAL INTELLIGENCE IN BIOMEDICINE

SEVILLE, SPAIN | October 23-24, 2025



BIOMED

Sociedad Española de
Inteligencia Artificial en Biomedicina

CALL FOR SPECIAL TRACKS



IMPORTANT DATES

July 4, 2025

Papers: Deadline for submission

July 31, 2025

Papers: Notification of acceptance

September 14, 2025

Papers: Deadline for camera-ready due

GENERAL CHAIRS

Alejandro Rodríguez González
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PROGRAMME COMMITTEE CHAIRS

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Universidad de Oviedo

The **1st Conference of the Spanish Society of Artificial Intelligence in Biomedicine (IABiomed)** will be held at the **School of Computer Engineering of the University of Seville, Spain, on 23 and 24 October 2025**, and will be a meeting place for researchers, professionals and students interested in the ethical, rigorous and responsible use of artificial intelligence in biomedicine.

This multidisciplinary event will provide an open forum for sharing recent advances, discussing current challenges and exploring new trends. It will cover everything from the development of techniques and models to their application in real clinical contexts. It will combine scientific content with an informative approach through **keynote lectures, oral presentations and scientific posters**.

The scientific community is invited to submit original papers related to the following thematic areas of the conference (among others):

- Artificial intelligence applications in public health and rare diseases.
- Machine and deep learning for biomedical data analysis.
- Big Data and computational infrastructures for AI systems in biomedicine.
- Artificial intelligence-assisted biomarker development.
- Ethics, privacy and security in AI applications in healthcare.
- AI for multi-omic integration and analysis of heterogeneous biomedical data.
- Explainable and interpretable AI in clinical and biomedical contexts.
- Artificial intelligence in infectious diseases and epidemiological surveillance.
- Artificial intelligence in biosensor engineering and intelligent medical devices.
- Brain-computer interfaces (BCI) based on AI techniques.
- Mining of clinical and epidemiological data using AI algorithms.
- Predictive modelling and personalised medicine using artificial intelligence.
- Modelling and simulation of biological systems with AI approaches.
- Educational platforms and clinical simulation based on artificial intelligence.
- Prediction of protein structures and molecular interactions with AI techniques.
- Medical image processing and computer vision in clinical environments.
- Collaborative projects in biomedical AI: transfer, validation and use cases.
- AI-powered computational radiomics, genomics and phenomics.
- Gene co-expression networks and biological network analysis using AI.
- Medical robotics and artificial intelligence applied to surgery and assisted therapies.
- AI-based clinical decision support systems.
- Telemedicine and AI-driven digital health platforms.
- Natural language processing (NLP) in biomedicine.

For more information on submitting contributions, please visit the following web address:

<https://2025.iabiomed.org/en/call-for-papers/>

CIABiomed is organising several special tracks in which invited authors will have the opportunity to submit extended versions of their papers. Please refer to the following web address for more information: <https://2025.iabiomed.org/en/call-for-special-tracks/>

All submitted papers must be written in English and will be reviewed by at least three members of the Programme Committee in a single-blind peer review process.

Regular, short and poster papers accepted will be included in Springer's **Lecture Notes in Bioinformatics (LNBI)**. The accepted breakthrough papers will be published in the society's own proceedings which will be available on the official IABiomed website. Publication is conditional on the registration and presentation of the paper at the conference by one of the authors. Accepted oral presentations and posters may be presented at the conference in Spanish. The number of papers that an author can have in LNBI in this edition of CIABiomed is limited to a maximum of three.



**Lecture Notes in
Bioinformatics**

Lecture Notes in Computer Science

2025.iabiomed.org