



Informatics and Statistical
Tools for Advancement
of Research Success

D5.2:International Meeting to disseminate outcomes

Project Deliverable



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Abstract	<p>iSTARS is a project of Faculdade de Medicina da Universidade de Lisboa (FMUL – Lisbon School of Medicine) that aims to develop an excellent program in data science in Medicine. After a long period of establishment, iSTARS has already produced interesting scientific outputs, resulting from diverse collaborations and partnerships within and outside FMUL. The international meeting to disseminate results is an opportunity to share the first set of scientific results, opening room to discussions and debates with other scientists and stakeholders from different fields. Additionally, the event was also intended to promote networking among the participants, as it gathers a community of scientists, students and stakeholders' interests in AI and data science applications in health field.</p>

History of versions

Version	Date	Changes	Authors
1.1	23.05.2025	First draft.	Brígida Riso, Beatriz Sousa
1.2	29.05.2025	Final version.	Brígida Riso, Beatriz Sousa

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Executive Summary

iSTARS is a project of Faculdade de Medicina da Universidade de Lisboa (FMUL – Lisbon School of Medicine) that aims to develop an excellent unit in data science and medicine.

After almost two years after the recruitment of the ERA Chair holder, iSTARS was able to present its scientific outputs. With a focus on the work done by iSTARS team, but also with the valuable contributions of others from a diversity of fields, the iSTARS AI health Summit was intended to be a two-days event gathering a community interested in AI in health and medicine.

The event also tried to address the potential of collaborations. By showcasing the ongoing and finished projects, iSTARS team was able to evidence how medical doctors and biomedical researchers are collaborating in a diversity of areas – this works also as an invitation to looking forward to new collaborations.

The international event to disseminate outcomes has also included a workshop in data visualization (**deliverable 2.3**), offering a two full day event, with an afternoon devoted to the workshop.

This document is deliverable **deliverable 5.2: international meeting to disseminate outcomes**:

A scientific meeting on data analytics to disseminate project results and create international collaborations.

Although the meeting was a public event, in this document, we will try to leave a glimpse of the meeting, hosted by FMUL during 15th and 16th of May 2025.

Scientific Program

The AI Health Summit was the first iSTARS international meeting to disseminate outcomes. The meeting has the following goals:

- > Present iSTARS scientific work in the last years;
- > Debate with a wider community (researchers, clinical professionals, students) the AI in health challenges;
- > Provide an opportunity to networking;
- > Illustrate through concrete “use cases” how iSTARS could contribute to leverage health research.

Thus, the programme was organised around the three main pillars of iSTARS:

- > Computational Biology
- > Data Science
- > Social Sciences and Ethics

The one-and-a-half-day conference has been planned to have a balance between the presentation of iSTARS work and the guest speakers. The guest speakers, centred on their fields of action, were able to bring new knowledge and ideas from people working with AI in the public and private sectors, in clinical practice or in research into AI applications in the health field. In addition, the programme has tried to be appealing, balancing international and national speakers. In the following we present a short bio of all the speakers that participated in the conference.

Guest speakers

Keynote Speaker

Francisca Leite, Luz Saúde, Portugal

Francisca Leite is the Director of Training, Research, and Innovation at Luz Saúde and an invited professor at the Catholic University of Portugal’s School of Medicine. She holds a PhD in Medical Engineering and Medical Physics from MIT and Harvard Medical School. She also serves on the boards of UpHill and CoLAB Trials and has experience as a consultant at McKinsey & Company.

Guest speakers in alphabetical order

Cíntia Águas Pereira, *Faculdade de Medicina da Universidade de Lisboa*

Cíntia Águas Pereira is an expert in bioethics and medical law, with a PhD in Bioethics from the Portuguese Catholic University. She is an Assistant Professor at the Faculty of Medicine of the University of Lisbon and former Executive Secretary of Portugal's National Council of Ethics for the Life Sciences. Her work focuses on ethics in research, biobanks, human rights, and scientific integrity, with over two decades of experience in legislative and academic settings.

Cristina Teixeira, *Faculdade de Medicina da Universidade de Lisboa*

Cristina Teixeira is both a medical doctor and a dentist, with postgraduate training in Orthodontics and Dentofacial Orthopedics. She is currently pursuing a PhD in Medicine at the Lisbon Medical School.

Elias Barreira, *iSTARS, Faculdade de Medicina da Universidade de Lisboa*.

Elias Barreira, iSTARS Data Manager, has a background in bioinformatics, computer science, and physical chemistry. His research interests include evolutionary biology and genotype–phenotype interactions.

Inês Carvalho, *iSTARS, Faculdade de Medicina da Universidade de Lisboa*

Inês Carvalho is a Data Scientist at iSTARS with an MSc in Biomedical Engineering from Instituto Superior Técnico. She specializes in applying machine learning and data analysis to medical datasets, helping translate complex data into clinical decision-making support.

Joana Vaz, *Ophiomics*

Joana Vaz is Chief Scientific Officer at Ophiomics and a specialist in cancer genomics. With over 20 years of experience, she has worked extensively across biomarker discovery and clinical diagnostics. She holds an MSc in Human Genetics and a PhD in Biomedical Sciences, and has led innovations in precision oncology, including clinical applications of ccfRNA sequencing.

João Gonçalves Pereira, *Hospital de Vila Franca de Xira, Faculdade de Medicina da Universidade de Lisboa*

João Gonçalves Pereira is Director of the Intensive Care Unit at Vila Franca de Xira Hospital, and Invited Assistant Professor at Lisbon Medical School. His work focuses on infection

management, antimicrobial therapy, and improving outcomes for critically ill patients in intensive care settings.

João Guimarães, *iSTARS, Faculdade de Medicina da Universidade de Lisboa*

João Guimarães is the ERA Chair holder of iSTARS. With a PhD in AI, he has worked at UC Berkeley, and the University of Basel. He also led data science teams at Roche and Farfetch. His work bridges machine learning and biomedical research.

Liliana Caldeira, *Uniklinik Koln*

Liliana Caldeira leads a data science team at the University Hospital of Cologne's Radiology Department. Her work focuses on developing AI algorithms for 3D medical imaging, including CT and MRI, supporting innovation in radiological diagnostics and data-driven healthcare.

Luís Filipe Ribeiro de Azevedo, *Faculdade de Medicina da Universidade do Porto*

Luís Filipe Ribeiro de Azevedo is Associate Professor at the Faculty of Medicine, University of Porto, where he directs the PhD program in Clinical and Health Services Research. A specialist in health technology assessment and evidence-based decision-making, he coordinates research groups at CINTESIS and RISE, and is a member of national advisory boards on health technologies, pharmacovigilance, and pain. His academic work spans over 200 publications in clinical research, biostatistics, and epidemiology.

Mariana Alves, *Faculdade de Medicina da Universidade de Lisboa*

Mariana Alves is a medical doctor specialized in Internal Medicine with a competency in Geriatrics. She is an Invited Assistant Professor at the Lisbon Medical School and a member of the Executive Committee of the Reynaldo dos Santos Technological Center. Her work focuses on advancing geriatric education, clinical care, and aging-related research.

Mariana Santos, *iSTARS, Faculdade de Medicina da Universidade de Lisboa*

Mariana Santos, iSTARS Funding Officer, holds a PhD in Clinical and Health Services Research. Her expertise spans evidence-based medicine, economic evaluation, and clinical trials, with a focus on critical care and chronic disease.

Paulo Gonçalves, *RD-Portugal*.

Paulo Gonçalves is the Executive and Empathy President of RD-Portugal, the national federation of rare disease associations. As a founding member of its Installation Committee,

he champions the rights and inclusion of people affected by rare diseases and their families, working to reduce inequality and promote social integration.

Pedro Gouveia, *Champalimaud Foundation*

Pedro Gouveia is a breast surgeon at the Champalimaud Foundation, certified by the European Society of Surgical Oncology. He's also a designer and researcher, leading the award-winning Breast 4.0 project that explores augmented reality and AI for breast cancer surgery. He is Portugal's coordinator for the Oncoplastic Breast Consortium and a PhD candidate at the University of Lisbon.

Raquel Romão, *iSTARS, Faculdade de Medicina da Universidade de Lisboa*

Raquel Romão, Computational Biologist at iSTARS, combines biological engineering and computer science. She's worked across Europe on projects in genomics, systems biology, and translational bioinformatics.

Susana Fernandes, *Faculdade de Medicina da Universidade de Lisboa*

Susana Fernandes is a medical doctor specialized in Internal Medicine and Intensive Care and the director University Clinic of Intensive Medicine at Lisbon Medical School, where she also teaches. Her research focuses on understanding persistent critical illness associated with immune dysfunction and long-term outcomes.

Teresa Magalhães, *Escola Nacional de Saúde Pública, Universidade NOVA de Lisboa*

Teresa Magalhães is a professor and researcher at the National School of Public Health, NOVA University Lisbon. She specializes in digital health and health information, and coordinates the Postgraduate Programs in Hospital and Digital Health Administration. A seasoned hospital administrator, she has held leadership roles at the Red Cross Hospital, the Lisbon North Hospital Centre, and the Setúbal Hospital Centre.

Presentations

Keynote: AI in Healthcare in 6 prompts

Dr Francisca Leite explored the evolving landscape of artificial intelligence in healthcare through six prompts: Wonder, Concern, Excitement, Responsibility, Fear, and Confidence.

Starting with a reflection on the progress of medicine, the presentation highlighted the exponential growth of medical knowledge, setting the stage for AI's transformative potential.

Real-world examples were used to show complexity of healthcare systems, the explosion of data, and the emergence of AI as a powerful enabler of predictive diagnostics and personalized medicine, process automation and augmented clinical care.

The session also touched the ethical and practical challenges, addressing concerns about bias, safety, transparency, and the impact on medical professions, underscoring the need for responsible AI frameworks, education, adaptation, and human-centered integration. After all, AI's true promise lies in enhancing—not replacing—the physician-patient relationship.

Day 1

Session 1: iSTARS and the Future of Health Data Science

João Guimarães introduced iSTARS as an initiative created to empower biomedical research through data science and genomics, which focuses on equipping researchers with advanced tools, fostering collaboration, and maximizing the potential of diverse health datasets. The talk explored key themes such as machine learning in medical imaging, single-cell and spatial genomics, and the integration of multi-omics data to decode complex biological systems.

Session 2: iSTARS Showcase: Clinical Data Management with REDCap

Mariana Santos presented the iSTARS effort to implement the REDCap platform, a versatile, secure, and intuitive tool for managing clinical research data, at FMUL. From dataset planning and variable definition to GDPR-compliant data protection, REDCap enables efficient and customizable workflows for multicenter studies. The talk highlights REDCap's key features, including automated exports, scheduling tools, conditional logic, and offline form creation, and outlines standard operating procedures at FMUL.

Session 3: iSTARS Showcase: Biomarkers for Oligometastasis Progression

Elias Barreira presented findings from an iSTARS collaboration project analyzing whole exome sequencing (WES) data from a cohort of 55 patients, aiming to identify genomic biomarkers predictive of oligometastasis versus plurimetastasis progression. The talk showcased how genomics and interpretable machine learning models can be used to identify biomarkers and distinguish phenotypes, which can be useful for personalized cancer treatment planning.

Session 4: iSTARS Showcase: Immunoregulation by RNA-binding Proteins

Raquel Romão presented an iSTARS collaboration project to understand how RNA-binding proteins (RBPs) function as regulators of immune responses. Focusing on the RBP YTHDC1, a reader of m6A-modified RNA, the study explores its role in T cell proliferation, survival, and differentiation. Using RNA-seq and iCLIP-seq, the research revealed that YTHDC1 controls gene expression programs linked to apoptosis and cell cycle regulation. These insights not only expand our understanding of immune regulation at the post-transcriptional level but also highlight RBPs' therapeutic and biomarker potential in immune-related diseases.

Session 5: Digital Transformation in Healthcare

Teresa Magalhães provided an integrated overview of key challenges to digital innovation, such as governance, data integration, and workforce readiness, and potential opportunities. The session began with an overview of the Portuguese Health System, identifying current challenges and opportunities for transformation, especially through digitalization. The potential of digital health as a driver of change and improved service delivery, before assessing Portugal's current position in the digital transformation journey was then discussed. The session concluded by showcasing existing initiatives and assets that are already contributing to a more digitally mature and responsive healthcare system.

Session 6: Clinical Decision Support

Pedro Gouveia offered a comprehensive overview of the potential impact of Artificial Intelligence in healthcare, with a particular focus on Clinical Decision Support Systems, emphasizing how technology should support, rather than replace clinicians in delivering more effective and personalized care. The session explored emerging fields where AI is already making an impact, including genomics, digital health, and robotics, highlighting both their promise and the ethical considerations that must guide their deployment, and the importance of ensuring that these technologies are implemented in ways that maximize

benefit and minimize harm. Through real life examples, the presentation makes a case for the thoughtful integration of AI as a partner in clinical decision-making.

Session 7: AI for Radiology

Liliana Caldeira showed how the Data Science team at University Hospital Cologne is developing and deploying AI tools to support clinical radiology, with examples that include deep learning models for brain tumor segmentation and radiomics-based lung cancer analysis. The presentation also discussed the use of federated learning through the national RACOON network, which facilitates collaborative AI development across hospitals while preserving patient data privacy. Real-world use cases and results are discussed, alongside challenges in annotation, infrastructure, and clinical integration.

Session 8: Personalized Medicine

Joana Cardoso Vaz presented real-world applications of precision medicine, highlighting Ophiomics' work in biomarker discovery, early disease detection, and patient stratification. The session explored innovations such as DNA methylation-based tools for hepatocellular carcinoma and MASH, the clinical implementation challenges of in vitro diagnostics, and initiatives like the LEOPARD and QuantaGENOMICS consortia.

Session 9: Health Data from the Perspective of Practicing Health Believers

Paulo Gonçalves presented a view on the challenges and opportunities of using health data from the perspective of patients, caregivers, and those closely involved in rare disease communities. The presentation explored systemic barriers such as limited data access, interoperability issues, and regulatory complexity, while also highlighting the potential for more participatory and transparent healthcare systems. With a focus on autonomy, trust, and user-centered approaches, the talk challenged stakeholders to rethink data governance and actively engage patient communities in shaping the future of health.

Day 2

Session 1: Real-World Evidence in Clinical Research

Round Table: AI in Healthcare

Panel: Cristina Teixeira (Orthodontics), Mariana Alves (Internal Medicine – Geriatrics), Susana Fernandes (Intensive Care), João Gonçalves Pereira (Intensive Care)

Moderator: Beatriz Sousa (iSTARS Communication Officer)

This round table explored the real-world challenges and opportunities of using AI and data-driven approaches in clinical practice. The panelists reflected on issues such as data quality, sharing, analysis, and ethical considerations, while highlighting the potential of AI to improve decision-making and patient outcomes.

Cristina Teixeira, Susana Fernandes, and João Gonçalves Pereira shared how working with iSTARS has supported their data science needs, and how such collaborations can be beneficial for clinicians and researchers. The session also explored how to expand these partnerships and strengthen iSTARS collaboration with healthcare professionals.

Session 2: Ethics in Data-driven Health

Cíntia Águas explored the complexity of ethical, legal, and societal implications tied to the growing "datification" of health and life itself. From questions of privacy, consent, and vulnerability, to concerns about inclusion, data reuse, and participatory governance, the session examined how to balance individual rights with collective benefits, highlighting the responsibilities of states, institutions, and society in shaping ethical frameworks and the importance of trust, transparency, and the responsible use of health data. The talk invited a reflection on reasonable expectations in an age of long-term data storage, legacy systems, and increasingly powerful data analytics.












Dissemination

The event was disseminated in the FMUL newsletter, LinkedIn and Instagram accounts and on iSTARS Instagram, X, and LinkedIn.

The information was also available in our website: <https://istars.pt/2025/03/05/istars-health-ai-summit-2025/>

To maximize the impact, videos of each session will be available online, with the speakers' consent, and a news report of the event will be shared on the project's website.

The image shows two social media posts. The top post is from the LinkedIn page of 'iSTARS FMUL', which has 780 followers. The post text reads: 'You can now register for free for the iSTARS Health AI Summit 2025, taking place on May 15-16 at the Grand Auditorium João Lobo Antunes, Lisbon Medical School! Join us for two days of discussions, interactive sessions, and project showcases on artificial intelligence, data science, precision medicine, genomics, real-world evidence, healthcare ethics, and data visualization. Check out the full schedule below! Attendance is free, but registration is required – secure your spot here: <https://lnkd.in/dq45sSt5> #healthai #precisionmedicine #genomics'. Below the text is a promotional poster for the summit. The poster features the U|M Faculdade de Medicina logo, the event title 'iSTARS Health AI Summit 2025', the location 'Grand Auditorium João Lobo Antunes / FMUL', and the dates '15th & 16th of May'. It also includes a 'DAY 1' schedule: 09.00 Registration, 09.30 Opening Session (Faculdade de Medicina), 09.50 iSTARS and the Future of Data Science in Healthcare (iSTARS), 10.20 Genomics for the Identification of New Biomarkers (iSTARS), and 10.50 iSTARS Showcase: MSCP Decad (iSTARS). The bottom post is from the Instagram account 'istars.fmul e facultademedicina.ulisboa'. The post text says: 'Marca no teu calendário O iSTARS Health AI Summit 2025 terá lugar nos dias 15 e 16 de maio! Será um evento de dois dias com a participação de especialistas em ciência de dados, medicina de precisão, genómica e visualização de dados, com mesas-redondas, workshops e apresentações de projetos. Local: Grande Auditório João Lobo Antunes, Faculdade de Medicina da Universidade de Lisboa Programa e inscrições em breve! Fica atento para mais novidades! Save the Date! The iSTARS Health AI Summit 2025 is happening on May 15-16! This will be two-day event featuring leading experts in data science, precision medicine, genomics, and data visualization, with round tables, workshops, and project showcases. Location: Grand Auditorium João Lobo Antunes, Lisbon Medical School Program & registration coming soon!'. The Instagram post also includes a 'SAVE THE DATE' graphic with the dates '15 e 16 Maio' and logos for iSTARS and the European Union.

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69 posts


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ISTARS @IstarsFMUL · Apr 3


Register now for free for the **ISTARS Health AI Summit 2025!** Join us on May 15-16 at the Grand Auditorium João Lobo Antunes for discussions on AI, data science, precision medicine & more. Check the program below & sign up here: fmul.up.events/e/istars-health-ai [#HealthAI](#) [#DataScience](#)








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Nos dias 15 e 16 de maio, a FMUL recebe o **ISTARS Health AI Summit 2025**, dedicado à ciência de dados em saúde e à inteligência artificial aplicada à medicina.

Durante dois dias, clínicos, investigadores e especialistas vão debater temas centrais para o futuro da saúde, como Genómica, Medicina de Precisão, Transformação Digital em Saúde, Real World Evidence, Ética na utilização de dados de saúde, e Visualização de Dados


O programa inclui:

- Palestras e uma mesa-redonda com oradores convidados
- Apresentações de trabalhos do projeto **ISTARS FMUL**
- Workshop interativo de visualização de dados

Local: Grande Auditório João Lobo Antunes, Faculdade de Medicina de Lisboa

Inscrição gratuita (obrigatória) e mais informações aqui ↓
<https://lnkd.in/dC8aHFGR>

Programa iStars Health AI Summit 2025 - 1 page



Win Full

Apply for 1 scholarship spots only

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Textiles: 1,001-E

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iSTARS Health AI Summit 2025



Thursday, 15th of May and Friday, 16th of May 2025

Grand Auditorium João Lobo Antunes, Egas Moniz Building, Lisbon Medical School (FMUL)

iSTARS will be hosting a conference on Health AI on May 15th and 16th, 2025!

Artificial intelligence holds the potential to revolutionize healthcare by enabling more efficient services, improving treatments, and advancing medical knowledge, all of

Attendance

The event was planned to be on site. However, the event was recorded and it will be available online upon authorization of the speakers.

As the event was free of charge, we had more registrations (63) than registered attendants (35).

The conference has a total audience of 35 people, from multiple professional areas, almost half were students, either medical students or from other scientific areas, as it is illustrated below in figure 1.

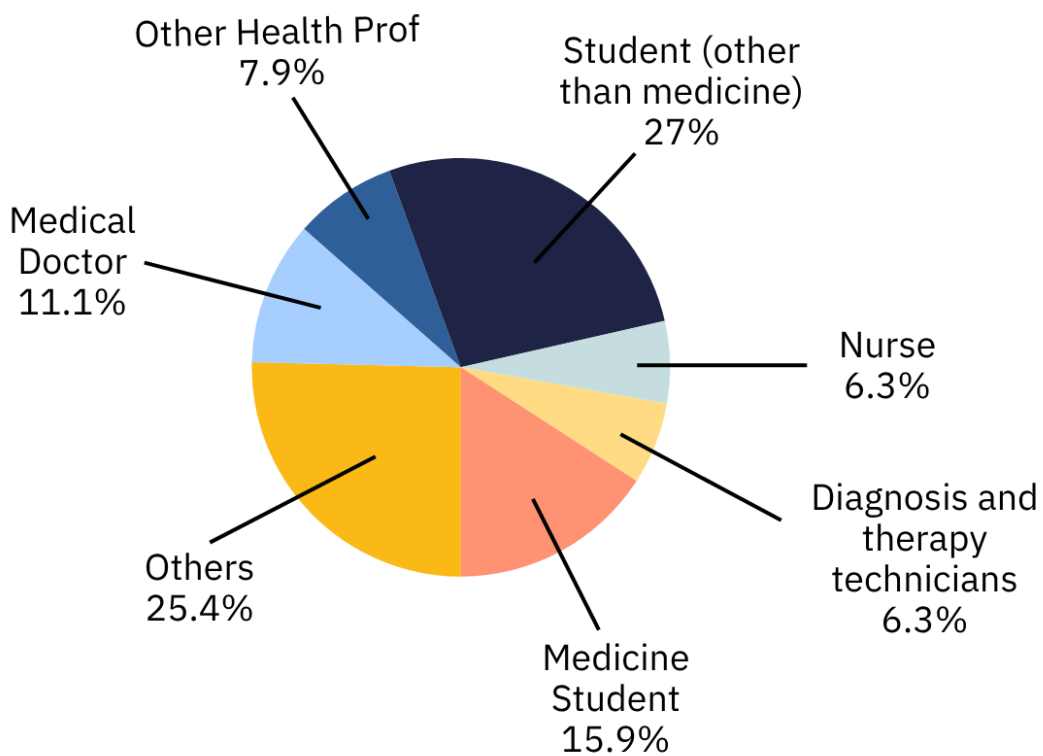


Figure 1 – Distribution of attendants by Job Title

Photo report















We have a growing accumulation of health data, of different varieties: human biology, health and disease, lifestyles and behaviours...

Information technology and data science continue to provide increasingly more powerful ways to collect, manage, combine, analyse and derive new insight from these data.





A final note

This international meeting to disseminate outcomes was planned to be more than a conventional project meeting.

Although the audience was smaller than we expected, students were a significant part of audience showing the interest of the topic for younger generation. There was also a great part of the audience that have not heard previously about iSTARS. The discussions and networking were opportunities to better understand the needs of medical doctors and students and how to better reach the iSTARS target audience.

The event was also successful in illustrating not only the potential of data science in medicine, but also to discuss its challenges and implementation hinders.

Annexes

Conference poster – save the date

U LISBOA | **M** Faculdade ¹⁸²⁵ de Medicina

Grand Auditorium João Lobo Antunes / FMUL

iSTARS Health AI Summit 2025

15 & 16 May — *SAVE THE DATE*

iSTARS  **Funded by the European Union**

Conference programme poster I



iSTARS Health AI Summit 2025

Grand Auditorium João Lobo Antunes / FMUL

15TH & 16TH of May

DAY 2

- 09.00 **iStars Showcase: Clinical Data Management with REDCap**
Mariana Santos (iSTARS FMUL)
- 09.30 **Real-World Evidence in Clinical Research**
Luís Filipe Azevedo (FMUP)
- 10.00 **Keynote: AI in Healthcare**
Francisca Leite (Luz Saúde)
- 11.00 **Coffee Break** —
- 11.30 **Roundtable: Health Data**
Mariana Alves (FMUL), Cristina Teixeira (FMUL), João Gonçalves Pereira (HVFx), Susana Fernandes (FMUL)
- 12.30 **Ethics in Data-Driven Health**
Cíntia Águas (FMUL)
- 13.00 **Closing**
- 13.10 **Lunch** —
- 14.30 **Workshop: Data Visualization in Healthcare**
Stefan Pullen (Vizard Design), Martina Zunica (info8)
-
- 17.00 **End of Workshop**

DAY 1

- 09.00 **Registration**
- 09.30 **Opening Session**
Fausto Pinto (FMUL) e João Guimarães (iSTARS FMUL)
- 09.50 **iStars and the Future of Health Data Science**
João Guimarães (iSTARS FMUL)
- 10.20 **Genomics for the Identification of New Biomarkers**
Santiago Carmona (AGORA Cancer Research Center)
- 10.50 **iStars Showcase: Biomarkers for Oligometastasis Progression**
Elias Barreira (iSTARS FMUL)
- 11.10 **Coffee Break** —
- 11.40 **iStars Showcase: Immunoregulation by RNA-binding Proteins**
Raquel Romão (iSTARS FMUL)
- 12.00 **Digital Transformation in Healthcare**
Teresa Magalhães (ENSP NOVA)
- 12.30 **Lunch & Networking** —
- 14.00 **Clinical Decision Support**
Pedro Gouveia (Champalimaud Foundation)
- 14.30 **AI for Radiology**
Liliana Caldeira (Uniklinik Köln)
- 15.00 **iSTARS Showcase: Diagnostic Model for Skeletal Malocclusion**
Inês Carvalho (iSTARS FMUL)
- 15.15 **Coffee Break** —
- 15.45 **Personalized Medicine**
Joana Vaz (Ophiomics)
- 16.15 **Personalized Medicine from the Patients' Perspective**
Paulo Gonçalves (RD Portugal)
- 17.00 **End of Day 1**
- 19:30 **Social Dinner** (Ordem dos Médicos Restaurant)

