

## Press release:

### A new European platform for 21<sup>st</sup> century medicine

Registration and abstract submission are now open for the 1<sup>st</sup> conference of the European Association of Systems Medicine. Systems Medicine enables personalised medicine in multi-factorial diseases (such as Cancer, Cardiovascular, Inflammatory and Metabolic diseases) through new approaches of data integration and computational analysis. Current examples of Systems Medicine and how they will shape the future of medical care will be presented at the conference, which will be held on October 26<sup>th</sup>-28<sup>th</sup> in Berlin, Germany; see [www.easym.eu](http://www.easym.eu) for details.

Most diseases are multifactorial, such as diabetes, cardiovascular diseases and cancer. These diseases involve complex interactions within a patient's body that are additionally influenced by external factors. Mathematical models and computer simulations have been successfully developed in biological research to achieve a better understanding of complex biological interactions. The application of such a systems approach in a clinical setting is called Systems Medicine and represents a powerful method to improve:

- Best practices of poly-pharmacology treatment in the elderly population
- Integration of personalized genomics, proteomics and clinical phenotyping
- Identification of biomarkers for early diagnosis, prognosis and personalized therapies
- Molecular re-classification of disease thereby optimising P4 medicine and drug development

The aim of the European Association of System Medicine (EASyM ) is the implementation of Systems Medicine in European clinical research and healthcare. EASyM has been initiated by the European FP7-funded Coordinating Action Systems Medicine (CASyM, [www.casym.eu](http://www.casym.eu)). EASyM is a charitable association open to everyone with an interest in personalised medicine and systems medicine. The association strives to integrate all relevant stakeholders, including clinicians, researchers, medical and patient organisations, industry, funders & policy makers. EASyM organises annual conferences, offers training in Systems Medicine, and provides regular updates about Systems Medicine development and findings, among many other activities. EASyM was founded on 30<sup>th</sup> September 2015 in Brussels by 27 medical doctors, researchers and health care stakeholders from 12 different countries.

At the 1<sup>st</sup> Conference of EASyM, cases of successful usage of Systems Medicine will be presented, as well as talks and tutorials about big data, omics, bioinformatics, doctor and patient involvement as well as compliance with privacy regulations. Key note speakers include Leroy Hood, MD, PhD, Co-founder and Chairman of the P4 (predictive, personalised, preventive, participatory) Medicine Institute, Seattle, USA and Dame Janet Thornton, PhD, former director of EMBL-EBI. The conference is aimed at basic and clinical researchers in academia and industry who want to apply Systems Medicine approaches to address unmet clinical needs.

CASyM is a multidisciplinary European consortium that joined forces to develop an implementation strategy (road map) for Systems Medicine. The CASyM road map is driven by clinical needs: It aims to identify areas where a systems approach will address clinical questions and solve clinical problems.



## European Association of Systems Medicine e.V.

Dr. Charles Auffray, Chairman of EASyM, says: « The European Association of Systems Medicine (EASyM) is now set to transform into a concrete action plan the road map of the Coordinating Action CASyM to implement Systems Medicine in Europe. This will be achieved in pilot projects tackling unmet medical needs through systems approaches of biological processes across organs and pathologies, leveraging European biomedical and ICT infrastructures. EASyM is committed to ensure that Europe speaks with a unified voice on the international scene to foster the development of the proactive and personalized medicine of the future ».

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