

GenomSys welcomes new Chief Scientific Officer Luca Trotta

Luca will lead a highly talented and multi-skilled scientific team in the newly opened Lugano branch



Lugano, March 2021 – Luca Trotta, Ph.D. in genetics, medical geneticist and scientific advisor with his long-standing international experience in genomics, joined GenomSys as Chief Scientific Officer. Simultaneously, GenomSys opened a new office in Lugano to tap into the vibrant innovation scene in Ticino and to accelerate the company's growth.

"I joined GenomSys because their disruptive view of personalized medicine perfectly matches what I envision. Smart and simple personalized applications can enable everyone to easily access, control, and share their own health information. This would resolve privacy issues and remove the technical limits to individual contribution to continuous research", says Luca *"In my vision,*

there is no 'personal' without community, therefore everyone must have the right to access the most personalized healthcare possible, which evidently can only result from meaningful research efforts."

Luca's core experience is the clinical interpretation of genomic variation and the implementation of genomic analyses workflows, particularly in Whole-Exome Sequencing (WES). For 10+ years he focused on the diagnostic of rare inherited disorders, immunology, and oncology, first at the Molecular Genetic Unit of the Policlinico Hospital in Milan and then at the Institute for Molecular Medicine Finland (FIMM) in Helsinki. During his time at the University of Helsinki, he successfully postulated his Ph.D. thesis demonstrating the capacity of WES as diagnostic tool for primary immunodeficiencies. After his Ph.D., he embraced the entrepreneurial challenge to grow small genomic testing companies in Switzerland before joining GenomSys.

Regarding genetics and personalized medicine, Luca says: *"I have been fortunate to witness the whirling advance of genetics from the inside over the last 20 years. When I started studying, the words genomics and personalized medicine were still far to be heard, now genetics is a powerful instrument to aid in many aspects of everyday life. But the growing amount of knowledge brings new challenges: How can we get the most out of genomics from a personal perspective?"*

Luca's expertise will provide GenomSys with deeper insights into genetics. His contribution is key to pursue the company vision, i.e. to enable personalized medicine for everyone in the most convenient way, with the utmost respect for individuals' privacy. The innovative MPEG-G-compliant solutions for data analysis, featuring native encryption, selective access, and high compression rate, will enable higher efficiency in genetic testing. In his role of Chief Scientific Officer Luca leads GenomSys scientific team, composed of talented bioinformaticians and a panel of top-notch scientific advisors.

The new branch in Lugano

GenomSys new branch, strategically located in Lugano, adds up to the existing office in the Swiss Health Valley, a hub of technology and genomic innovation around the research centers of the Ecole Polytechnique Fédérale de Lausanne and the Swiss Genome Center.

“Our new office in Ticino reflects our mindset – multi-cultural, multi-disciplinary and future-oriented, a little Switzerland in a company, and it’s aligned with our ambitious growth objectives requiring new talents and skills. As someone living in Ticino for many years, I’m also proud to contribute to the vibrant local innovation community and to the creation of another major innovation hub in Switzerland with focus on the future of human medicine”, says GenomSys CEO Alessio Ascari.



Lugano was chosen as the business center of Ticino and an emerging hub for startup innovation in Med Tech in the south of Switzerland, as well as for the vicinity to the Italian innovation hubs in Milan. The focused effort of the Canton, the recent development of the Lifestyle-Tech Competence Center and the initiatives of the local research centers (USI and SUPSI) are creating a vibrant community of innovators in digital, artificial intelligence, and biotechnology, that GenomSys is both eager to contribute to and to tap into.

About GenomSys

GenomSys SA is a Swiss health technology software company that develops secure, clinical-grade, solutions bringing personalized medicine to everyday life.

GenomSys first took genomics to the digital era by addressing the issues of legacy genomic text-based data formats. The company developed and led the ISO international standardization of MPEG-G (ISO/IEC-23092), a digital data format for genomic data representation that delivers substantial benefits in terms of efficient compression, interoperability, native protection, and selective access.

Now GenomSys is taking the next step, enabling laboratories and end-users to take advantage of the new standard: MPEG-G native analytical pipelines for more efficient storage and focused analyses via selective access, and the ability for people to store and analyze their own genomic data in their smartphones, bringing genomics into the mobile world.

In doing so, GenomSys defines a new paradigm with a highly differentiated solution: a consistent value proposition emphasizing privacy and convenience to truly deliver personalized medicine to individuals by leveraging the uniqueness of the new digital genomic standard and the pervasiveness of mobile, directly or through business partners.

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