University of Stuttgart

Stuttgart Research Center Systems Biology (SRCSB)

Systems Biology Seminar Talk

„Connecting Dots for Personalised Medicine“

Prof. Dr. Stephan Beck
University College London

Thursday
February 6, 2020
4 p.m. – 5 p.m.

Lecture Hall 0.106
Allmandring 31
Stuttgart

Abstract:

The sequencing of the first human genome in 2001 catalysed a revolution in genomic technology development, resulting in over 1 million human genomes having been sequenced to date at ever decreasing costs. This rapidly expanding effort is underpinned by a growing consensus among researchers, clinicians, politicians and the public that ‘omics’ in one form or another will transform biomedical research, healthcare and lifestyle decisions. For this transformation to happen and be successful, our knowledge of medical genomics will need to advance to a level where it can safely and effectively inform genomic medicine to improve patient treatment and public health in general. In the context of technologies, data science and healthcare systems, I will discuss key barriers hampering progress and potential solutions to advance medical genomics as quickly and economically as possible.

CV:

Stephan Beck is Professor of Medical Genomics at UCL in London. Using systems approaches, he studies genomic and epigenomic plasticity in health and disease to advance translational, regenerative and personalized medicine. He received his PhD in 1985 from Konstanz University where he studied DNA structure. After appointments at the MRC-LMB in Cambridge, Millipore in Boston and ICRF in London, he joined the Sanger Centre in 1996. During his tenure as Head of Human Sequencing (1998-2006), he played a leading role in the sequencing and analysis of the human and mouse genomes. He is a founding member of the Human Epigenome and UK Personal Genome Projects, a Fellow of the Academy of Medical Sciences and recipient of a Royal Society Wolfson Research Merit Award.

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