General Information

Organization
PD Dr. med. univ. Christoph Karlo
Prof. Dr. med. Jürg Hodler

Speakers
Dr. med. Anton Becker
Diagnostic and Interventional Radiology
University Hospital Zurich

Dr. Alessandro Blasimme
Health Ethics and Policy Lab
University of Zurich

Prof. Dr. Ernst Hafen
Molecular Systems Biology, ETH

Prof. Dr. med. Jürg Hodler
Diagnostic and Interventional Radiology
University Hospital Zurich

PD Dr. med. univ. Christoph Karlo
Diagnostic and Interventional Radiology
University Hospital Zurich

Prof. Ender Konukoglu
Computer Vision Lab, ETH

Dr. sc. Nat. Stephanie Tandadini-Lang
Radiation Therapy, University Hospital Zurich

Prof. Dr. Gunnar Rätsch
Biomedical Informatics Group, ETH

Ursula Soritsch-Renier
Chief Information Officer & Digital Group Leader, Sulzer AG

Dr. med. Matthias Wagner
Diagnostic and Interventional Radiology
University Hospital Zurich

Prof. Dr. med. Peter Wild
Systems Pathology Research
University Hospital Zurich

Dr. med., mag. rer. nat. Moritz Wurnig
Diagnostic and Interventional Radiology
University Hospital Zurich

Contact
Bernadette Forns Arroyo
Phone +41 44 255 98 97
bernadette.fornsarroyo@usz.ch

Registration
Per e-mail: bernadette.fornsarroyo@usz.ch
Fee: None

Accreditation
SRG-SSR: 3 Credits

Location
University Hospital Zurich
Small Auditorium East, HOER B 05
(Kleiner Hörsaal Ost)
Tram 5 or 6, get off at “Platte” (see map)

Symposium
Big Data, Radiomics & Precision Medicine

19 January 2017
08:30 am – 12:15 pm
Kleiner Hörsaal Ost
University Hospital Zurich
Dear Colleagues & Friends

We are pleased to invite you to the first ever symposium entitled “Big Data, Radiomics & Precision Medicine” at University Hospital Zurich.

Big Data, Radiomics and Personalized Medicine are “hot topics” at the moment. We frequently read and hear about ongoing activities in these fields in Switzerland and abroad, not only in research articles and scientific communications, but also in newspapers, journals, and other main stream media outlets.

Although the direction towards a more digital society seems to be clear and inevitable, many questions and challenges remain. We have therefore assembled a group of experts from the fields of big data, precision medicine, and Radiomics to tackle these open questions on the 19th of January 2017.

We will offer insights into our ongoing research and want to widen the scope by triggering an interdisciplinary discussion between professionals from University Hospital Zurich, ETH, and from industry. In addition, we will shed light on the legal and ethical aspects of big data.

We are very much looking forward to your participation!

Prof. Dr. Jürg Hodler
Director
Institute for Diagnostic and Interventional Radiology

PD Dr. Christoph Karlo
Attending Physician
Institute for Diagnostic and Interventional Radiology

Opening
08:30 am Welcome Note
Prof. Dr. med. J. Hodler

08:35 am Introduction
PD Dr. med. univ. C. Karlo

Block 1 – Radiomics
08:45 am A radiologist's guide to Big Data extraction from PACS
Dr. med. A. Becker

08:55 am Radiogenomics of Renal Cell Carcinoma
Dr. med. Mag. rer. nat. M. Wurnig

09:05 am Radiomics to predict treatment outcome in radiation therapy
Dr. sc. nat. Stephanie Tanadini-Lang

09:15 am Future impact of Radiomics in clinical decision making
Dr. med. M. Wagner

09:25 am Machine learning for interpreting medical images
Prof. Ender Konukoglu

09:55 am Coffee Break

Block 2 – Big Data
10:30 am Computational Pathology & Big Data
Prof. Dr. med. Peter Wild

10:45 am Big Data models in clinical medicine
Prof. Dr. Gunnar Rätsch

11:00 am Ethical and legal aspects of Big Data
Dr. Alessandro Blasimme

11:15 am Citizen Science
Prof. Dr. Ernst Hafen

11:30 am Industry Point of View
Ursula Soritsch-Renier

11:45 am Q&A

12:15 pm End of Symposium
Prof. Dr. med. Jürg Hodler