

Das Forum für ICT im Gesundheitswesen
Le forum pour les TIC dans le système de santé

 @eHealthSummit
www.ehealthsummit.ch



SGMI SSIM SSMI
Schweizerische Gesellschaft für Medizinische Informatik
Société Suisse d'Informatique Médicale
Società Svizzera d'Informatica Medica
Swiss Society for Medical Informatics

**STADE DE SUISSE
BERN**
11.-12. SEPT. 2018

Welcome

Prof. Dr. Blaser Jürg

President Swiss Society for Medical Informatics

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In cooperation with



ehealthsuisse
Nucleuskooperationen: Paris | Karlsruhe
Organisme de coopération: Confédération suisse - cantons
Organiz di cooperaziun: Confederaziun Svizra - Cantons

IHE | Integrating
the Healthcare
Enterprise
SUISSE

pharmaSuisse 

VGIch
Vereniging Geneeskundige Informatica Vereniging

LEADERSHIP & DIGITAL TRANSFORMATION



Federalism – Swiss Med IT Challenge

26 cantons in charge of

- Healthcare and education sectors
- R&D in eHealth

→ Limited resources for medical informatics

National Boosters

- + Healthcare Regulations
e.g. Tarmed, DRG, ePatientDossier
- + First R&D Initiative Med-IT
Swiss Personalized Health Network
- ++ Meaningful Use US-Program
2012-17: >37 Mrd \$

SWISS PERSONALIZED HEALTH NETWORK

- Making healthcare data (in hospital silos) available for research
- Harmonisation of information systems and data types (semantics, new bioinformatics data, ...)
- ...

It's a start

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SWISS PERSONALIZED HEALTH NETWORK - 2017/20

Basic Research

system biology, bioinformatics, *omics



Secondary Use

clinical & *omics data



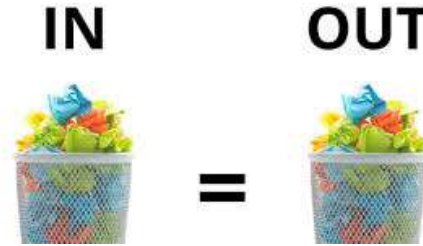
Genotype

Phenotype

BIG DATA & PERSONALIZED HEALTH – MACHINE LEARNING



pattern recognition



f (training set)

big *diverse* data

ARTIFICIAL INTELLIGENCE – SUCCESS STORIES



- Image analysis: Yes !
- Text analysis ?

IBM's Watson supercomputer recommended 'unsafe and incorrect' cancer treatments, internal documents show

July 25, 2018 [Casey Ross @caseymross](#), [Ike Swetlitz @ikeswetlitz](#)
<https://www.statnews.com/2018/07/25/ibm-watson-recommended-unsafe-incorrect-treatments/>

ARTIFICIAL INTELLIGENCE – SUCCESS STORIES

they should be more humble, considering my natural intelligence



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BIG DATA ANALYSIS

- CPU + memory $<1\text{mm}^3$
- Navigates Africa → Europe, and back
- Finds nectar
- Identifies friends and foes,
- Identifies partners & has fun



Sustainable track record:

- since >50 Mio Years
 - little CO_2 emission
- & more beautiful than an iPhone

Enjoy the Swiss eHealth Summit 2018

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