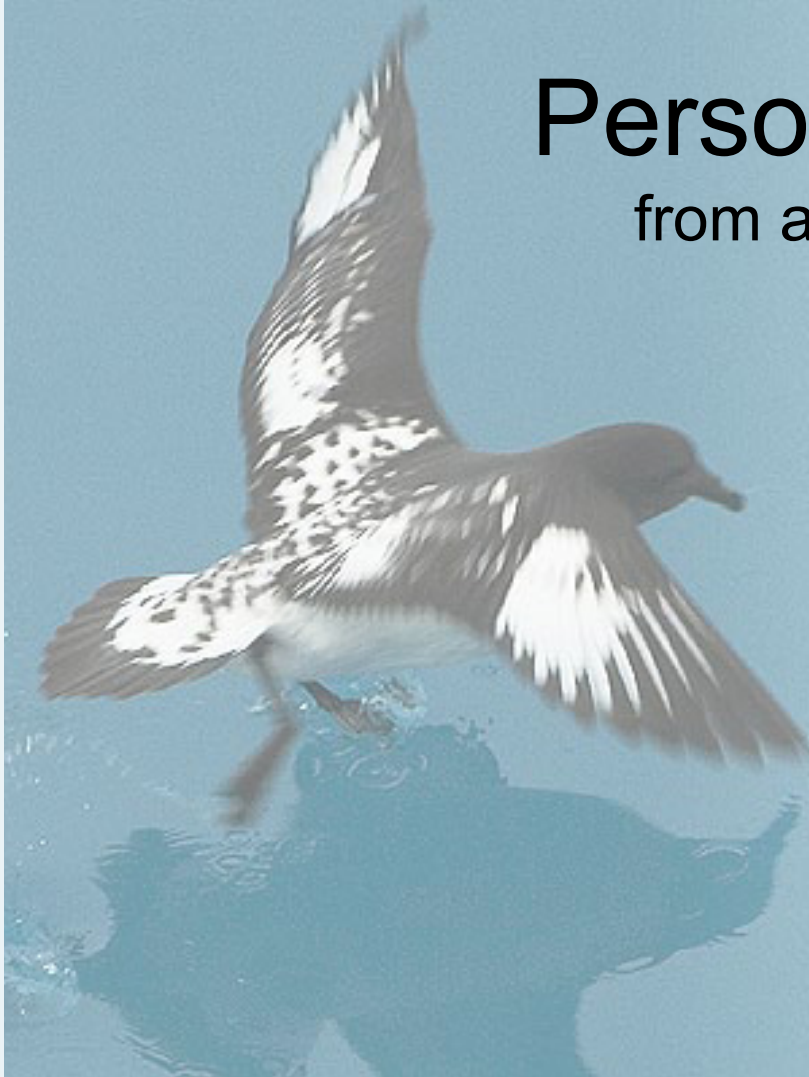


Personalized Medicine

from a technology assessment
point of view



Zentrum für Technologiefolgen-Abschätzung
Centre d'évaluation des choix technologiques
Centro per la valutazione delle scelte tecnologiche
Centre for Technology Assessment



Technology Assessment

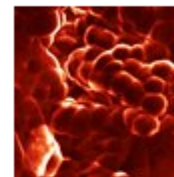
- At large
 - Societal aspects of science and technology
 - Contribution to the formation of public and political opinion
 - Different methodologies such as Expert TA and Participatory TA
 - Widespread in the international community



Kennisinfrastructuur

Twintig jaar wetenschapsbeleid:
hoe kan het beter?

→ [Bekijk projecten](#)



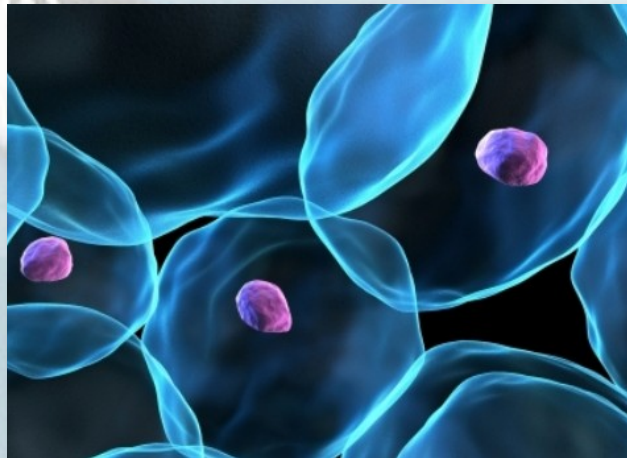
Innovatie

Innovaties. Hoe komen ze tot
stand?

→ [Bekijk projecten](#)

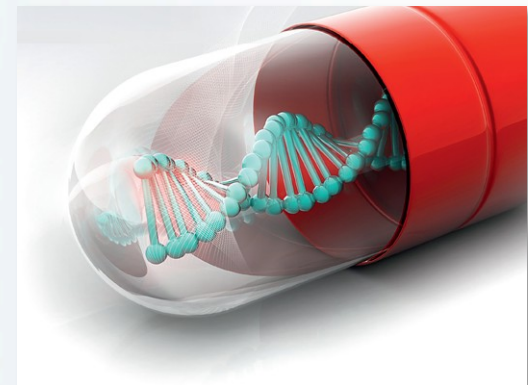
Personalized Medicine and Technology Assessment

- Meeting of two powerful scientific and technical developments
 - biomedicine: «Omics»
 - information technology: «Big Data», «Data Mining», Internet and Social Networks



Status quo

- Personalized Medicine is part of reality.
- It is not clear if the vision of a comprehensive Personalized Medicine is feasible.
- A comprehensive Personalized Medicine must be regarded in the context of Systems Medicine and a medicine that promotes wellbeing.



Chances

- Wealth of new knowledge for medicine
 - such as findings on disease development
- Increasing quality of medical treatments
- Stronger emphasis on maintaining health
- Mobilisation of persons with good health literacy and an affinity towards technology
- New market opportunities for the pharmaceutical and medical technology industry in Switzerland



Risks

- Endangering personal rights
- Shifting the boundaries between health and illness
 - normative function
- Tensions in the social security community
- Undue focus on molecular biomarkers
- Cost increase in the health system



Implementation and acceptance

- Personalized Medicine is an ambitious and challenging concept.
- It meets the requirements of persons with good health literacy and an affinity towards technology who are ready to assume individual responsibility.
- Concerned persons and medical experts must be empowered to profit from the new developments.



Impact on the health system

- The specialism will increase further.
- The collaboration of different specialists and organisations becomes more challenging.
- The electronic patient record represents an important prerequisite for the further development of Personalized Medicine.



Challenges for society

- A comprehensive Personalized Medicine requires huge investments.
- The protection of personal rights is a vital concern.
- From an ethical perspective there is need for clarification of questions about fairness and solidarity.



Regulatory framework

- The regulatory framework in Switzerland is not entirely ready for Personalized Medicine.
- Some developments impede the political scope of action.
 - e.g. providers who collect, analyze and exchange personal health data on the internet

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Thank you for your attention

