

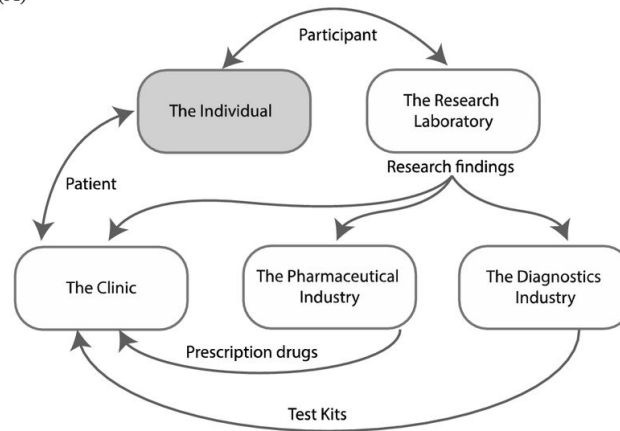
Personalised medicine

Ann Kuruvilla
18th June 2016

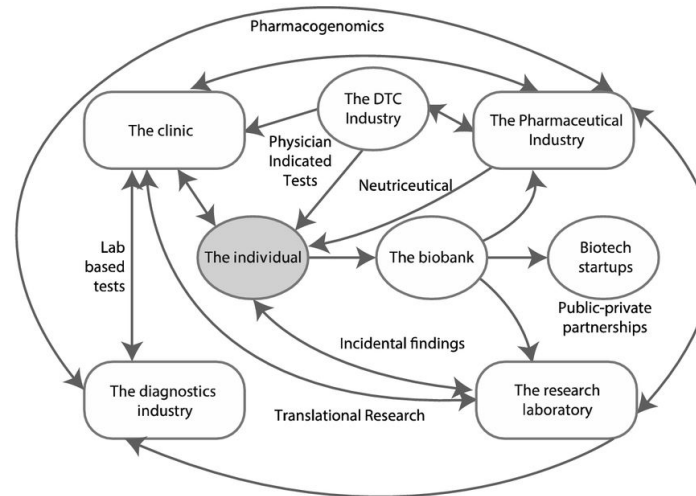


The changing milieu of healthcare.

(A)

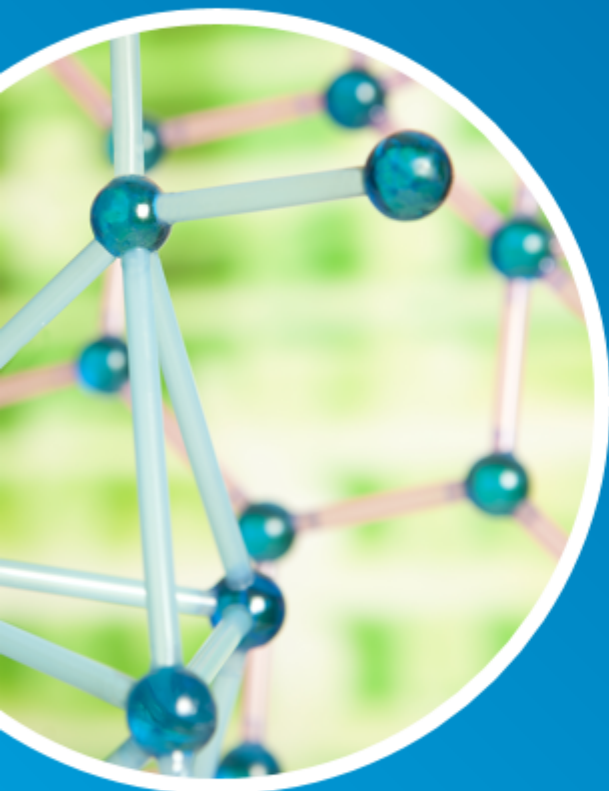


(B)



Dianne Nicol et al. J Law Biosci 2016;jlb.lsw018

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Law and the Biosciences



“First the doctor told me the good news. I was going to have a disease named after me.”

(Steve Martin)

Treating patients as individuals with specific characteristics at every level of the biological spectrum, ranging from molecules to population, with the ultimate goal of providing better care to individuals.

Tools

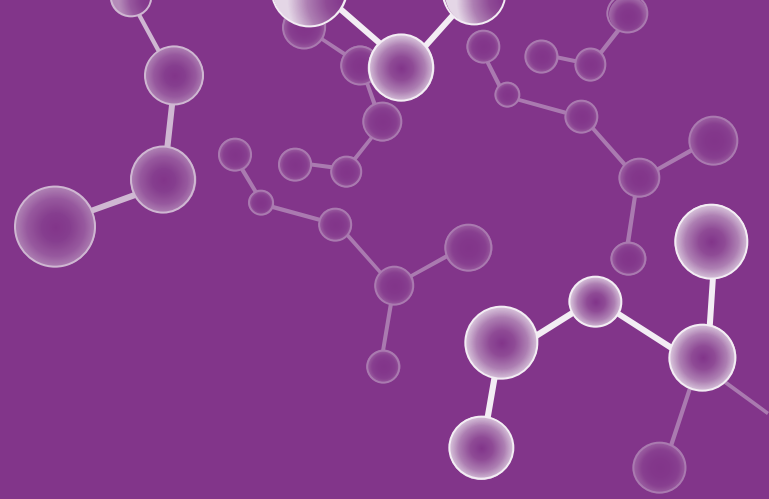
- Gene sequencing
- Mobile health applications
- Computational analysis
- EMR (family history data collection)
- Molecular diagnostic tests
- Biomarkers

Opportunities

- Gene sequencing – Challenges in building personal genome
- Sample size and statistical power- link to study drug response
- Quantitative risk assessments
- Standardisation of the data – How diverse can be it?
- Privacy and confidentiality – ethical and legal questions

Regulations

- precisionFDA
- Guidelines and best practices
- Revision of existing guidelines
- Policies promoting the exchange of data
- Biomarker qualification standards



Expectations

- Accessibility of clinically useful technologies on a global scale
- Clinical trial redesigns



Imagine the possibilities for a healthier world.

Thank you!