



a place of mind
THE UNIVERSITY OF BRITISH COLUMBIA

2nd Personalized Medicine Summit Held June 11-13 2017 at UBC

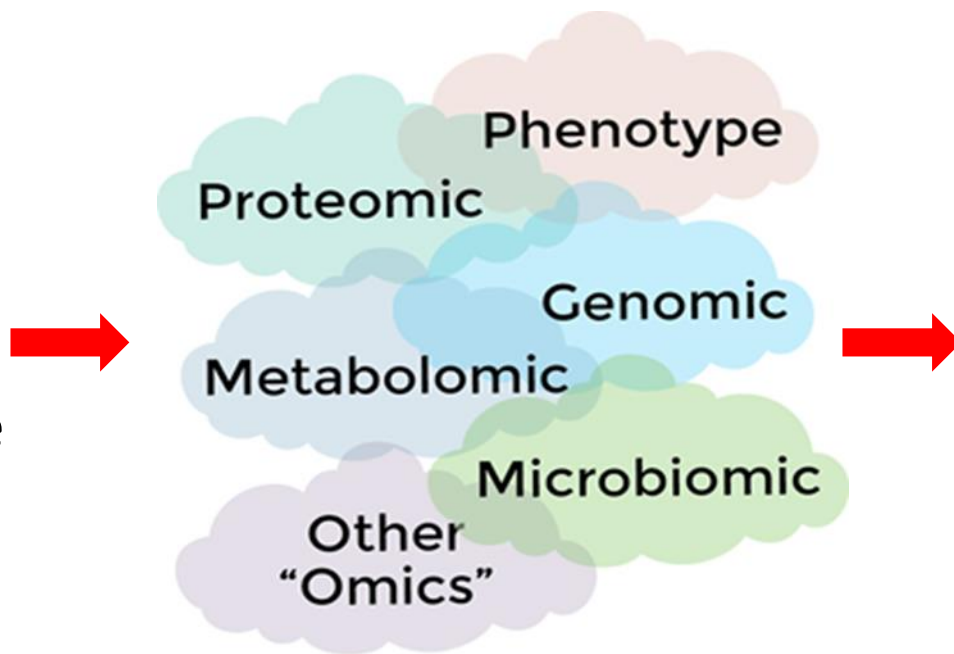
Produced Roadmap 2.0: The Time is Now For Personalized* Medicine in British Columbia

- *Personalized Medicine
 - = Precision Medicine
 - = Stratified Medicine
 - = Molecular Medicine
 - = Precision Health
-



The Future of Medicine: Improved Healthcare Through Comprehensive “Omic” Profiling

Well
people,
ill people



**Molecular data-clouds for
each individual**

Precise diagnoses
Individualized therapies
Better matching of
treatment to disease
Identification of new
biomarkers/targets
associated with disease
Early detection
Effective preventive
medicine

Roadmap 2.0: The Time Is Now For Personalized Medicine In British Columbia

Roadmap 2.0 was produced in collaboration with PwC, LSBC, Genome BC, UBC, CDRD, PROOF...

Recommendations:

- 1. The BC government should make a leadership commitment to personalized medicine**
- 2. We should establish an umbrella organization to catalyse and implement personalized medicine**
- 3. We should build on established strengths in personalized medicine**
- 4. We should construct a unique 25,000 person Omics database in high cost/morbidity/mortality diseases**

What Do We Mean By These Recommendations?

- 1) **The BC government should make a leadership commitment to personalized medicine**
 - 2% of the healthcare budget (\$400M/yr)
 - Commitment by BC Ministries of Health, Innovation, Advanced Education, Finance....to personalized medicine
- 2) **BC should establish an umbrella organization (UMBO) to **implement** personalized medicine**
 - UMBO represents all stakeholders (GBC, PMI, CDRD, LSBC, MOH, UBC, PROOF, SFU, U Vic.....)
 - UMBO manages and provides governance of an Omics database
 - UMBO identifies, funds and helps implement personalized medicine projects
 - UMBO catalyzes commercialization opportunities in the form of new start-up companies

What Do We Mean By These Recommendations?

3) **BC should build on established strengths in personalized medicine**

- BC has major strengths: expertise in all major diseases, HIV/AIDS/HEPC; POG@BCCA; PROOF; PMI; Industry...
- Mechanisms to amplify and scale these strengths required

4) **BC should construct a unique 25,000 person Omics database in high cost/morbidity/mortality diseases**

- Comprehensive Omic profiling (genomic, proteomic, metabolomic, microbiomic....) as opposed to genomics alone
- Disease cohorts: Autism, diabetes, sepsis, PCOS, A Fib, stroke, IBD, Cancer.....
- Benefits: match therapy to disease more accurately; identify new targets; inform basic research; stimulate innovation

We Need To Capitalize on the Personalized Medicine Revolution!

Objectives:

1. Make BC residents the healthiest in the world
2. Enable the BC health care system to become more effective and sustainable by improving outcomes, reducing demand and increasing efficiency
3. Generate explosive economic growth by developing BC as the “Silicon Valley” of the rapidly emerging precision medicine industry.