

Biomarqueurs – Solutions en soins de santé. Biomarker solutions for health care.

Regulatory Challenges and Opportunities in the Era of Molecular Solutions for Health Care

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Wednesday, March 9, 2011



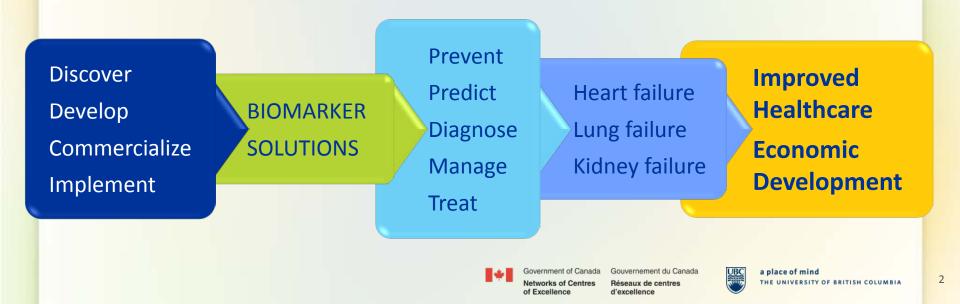
Government of Canada Gouvernement du Canada
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PROOF Centre Mission

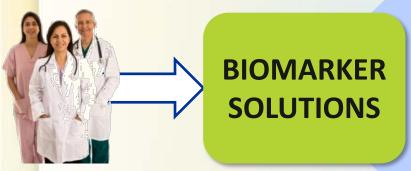


- Not-for-profit Society established in 2008 through federal funding as an NCE CECR
- Anchored at St. Paul's Hospital and hosted by the University of British Columbia





What are biomarker solutions?

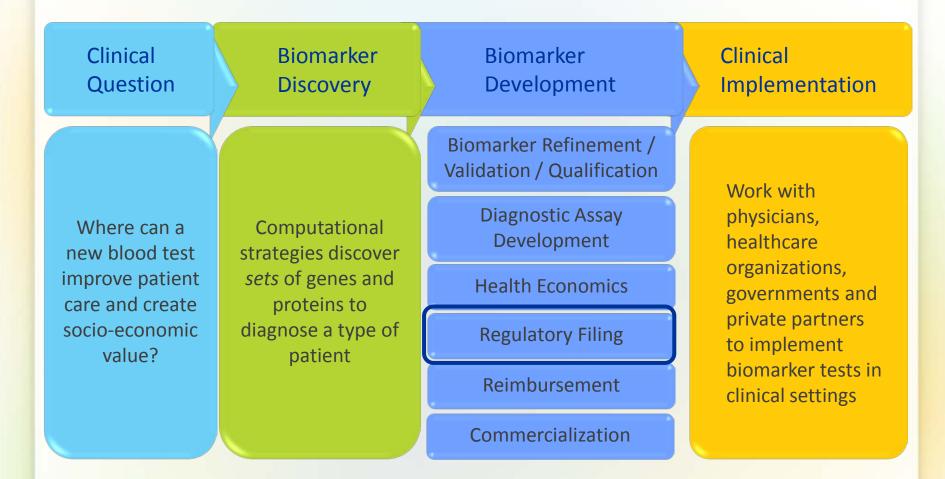


Sets of genes and/or proteins in the blood identified using a non-targeted approach and computational power, in combination with clinical variables and knowledge derived from other work, that address a clinical need





PROOF Centre Biomarker Pipeline







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Major Challenges / Opportunities

Biomarker Discovery

Analytical	Clinical	Clinical
Validity	Validity	Utility

Outcomes Evaluation

IP Clinical Utility / Validation FDA Adoption Evaluation

Pre-	Phase I – Phase III
Clinical	Clinical Trial

Phase IV (Post-market Evaluation)

Therapeutic Discovery





Major Challenges / Opportunities Intellectual Property

Can a gene be patented?



What about panels of molecular signatures that contain previously patented genes or proteins?

What are new possibilities for intellectual property that allows for increased utilization of knowledge?







Major Challenges / Opportunities Clinical Utility and Validation

- How can we be better at...
 - Engaging clinical, health care, and payor acumen early on?
 - Evaluating options for truly improving clinical care?
- Many new discoveries to date have not been validated
 - How do we share high quality specimens and data so patients can reap the benefit?







Major Challenges / Opportunities Regulatory Approval

- Biosimilars
- Laboratory Developed Tests (LDTs)
- Multiplex Tests (IVDMIA) / Voluntary eXploratory Data Submission
- Direct-to-Consumer
 - Advertising of Prescription Drugs
 - Genetic Testing
- Post-marketing Surveillance





Major Challenges / Opportunities Regulatory Approval

- FDA Clearance...
 - Can be (but not always) considered a major milestone
 - Allows a company to promote and distribute the product *BUT* only within the intended use
 - Does not provide acceptance in the medical community



PROOF Centre Experience



- VXDS (CDER)
 - Improved processes to bring forward validated biomarkers
 - Collaborative

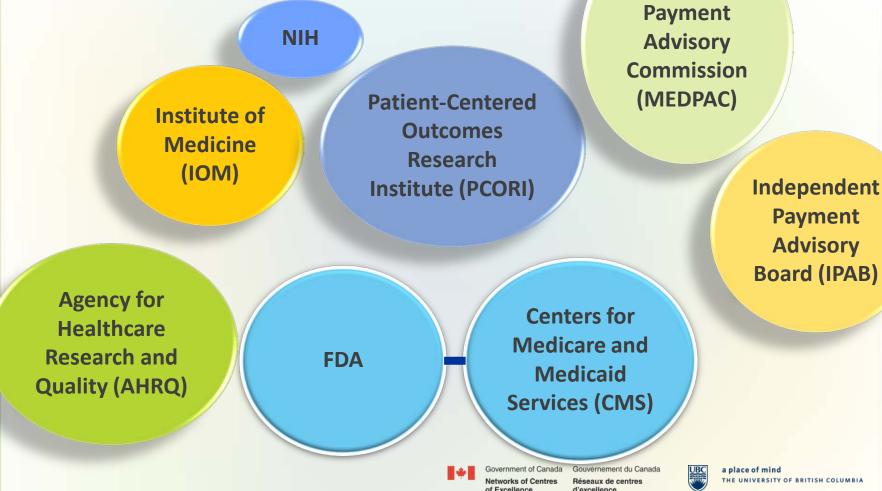
- CDRH
 - Promoting pre-IDE submission to open discussions *early* in the process







Major Challenges / Opportunities Adoption and Evaluation Medicare



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Payment

Advisory

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Major Challenges / Opportunities *Adoption and Evaluation*

- Improved *early* engagement of physicians and payors through clinical utility discussions
- [in Canada] How do we engage provinces for a more streamlined process to adopt new tests?
- [in US] CPT Coding changes underway through the Association for Molecular Pathology
- How do we ensure outcomes data is available for appropriate evaluation?





PROOF Centre Community of Partners

