WEBINAR

Translating discovery to transform health:

Untold stories from medical research
Network analysis of intellectual property that paved the way for COVID-19 mRNA vaccines such as Pfizer/BioNTech and Moderna shows that two universities: University of Pennsylvania and the University of British Columbia played key roles. Nat Biotechnol 39, 546–548 (2021).
“We still have a long way to go, but the pandemic has demonstrated what can be accomplished at an accelerated pace. As we turn toward recovery, we have an unprecedented opportunity now to invest in BC’s biotechnology sector and accelerate scientific discoveries into new drugs and treatments more effectively and more efficiently for other aggressive diseases.”

– Dr. Dermot Kelleher, Dean, Faculty of Medicine
DEFINITIONS

• **Discovery research**: basic science or fundamental research that focuses on generation of new knowledge.

• **Commercialization**: mechanism by which new treatments and drugs are mobilized to reach patients.

• **Clinical applications**: putting commercialized products and treatments into the health system.
THE LONG ROAD

3-6 YEARS

ACADEMIA

BASIC AND APPLIED RESEARCH

Preclinical studies

INDUSTRY

TRANSLATION TO HUMANS

Proof of Concept Phase 1 Clinical Trials

TRANSLATION TO PATIENTS

Controlled studies Phase 2&3 Clinical Trials

0.5-2 YRS

REGULATORY REVIEW

TRANSLATION TO PRACTICE

Phase 4 Clinical Trials Delivery to patients

INDEFINITE

HEALTH SYSTEM

TRANSLATION TO COMMUNITY

Population level outcomes and benefits
TRANSFORMING HEALTH FOR EVERYONE

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