

OPEN SCIENCE SYMPOSIUM



Montreal Neurological Institute-Hospital

Diane Gosselin, CEO

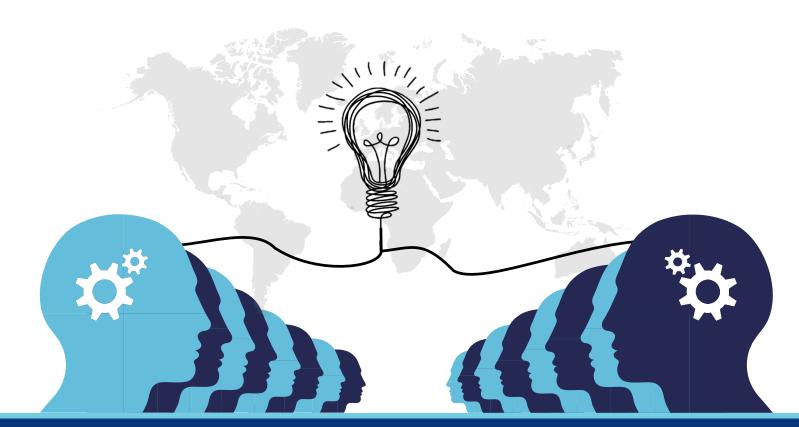
November 18th, 2019





Breaking up the Silos to Conquer the Future

- Open Science
- Open Innovation
- Open Collaboration





CQDM: A Not-For-Profit Pharma-Led Consortium



















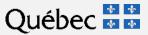












OUR MISSION

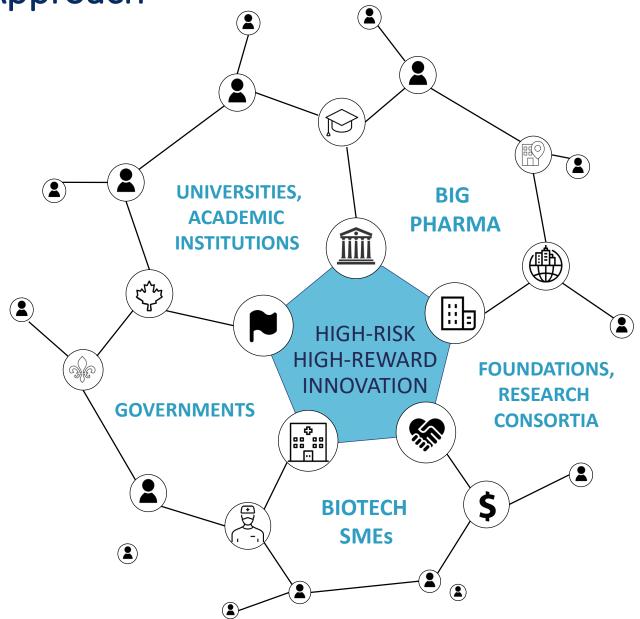
To fund and support **breakthrough technologies** that will significantly **enhance biopharmaceutical R&D** productivity and **accelerate the development** of safer and more efficacious drugs.

To create a **collaborative ground** between the academic and private sectors based on trust, creativity and **mutual benefit**.



CQDM Collaborative Approach

- Multi-disciplinary
- Multi-institutional networks
- Public/private partnerships
- Collaborations between big pharma organizations





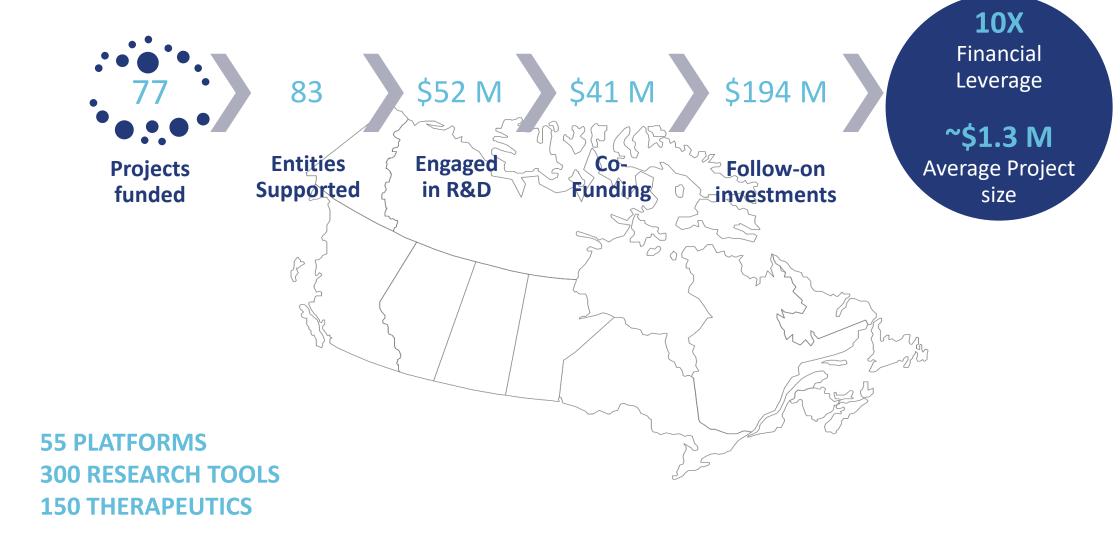
Significant Financial Leverage

GOVERNMENTS





CQDM Impact – Pan Canadian





PATIENTS-DERIVED HIPSC NEURONAL **PLATFORM FOR DRUG DISCOVERY** IN PD AND ALS

















Edward Fon – Guy Rouleau – Thomas Durcan – Philippe Seguela – Neil Cashman – Nicolas Dupré











- All results, cell lines and assays are in the public domain
- "First to see the results" and very close collaborations with KOL for participating Pharma



- Creation of drug screening platform
- Several candidates being validated from an open screen of 1,200 compounds
- Partnerships with InVivo AI to accelerate screening
- New investments totaling more than \$7 M (Merck, Takeda, SGC)



OPEN ACCESS PROTEIN DEGRADATION TOOLS FOR DRUG DISCOVERY













Cheryl Arrowsmith – Masoud Vedadi- Jinrong Min – Matthieu Schapira





- Research tools to characterize small molecule ligands for new E3 ligases are in the public domain
- Identity of E3 ligases of interest for participating Pharma are confidential
- "First to see the results" and very close collaborations with KOL for participating Pharma



- New modalities for small molecule therapeutics through protein degradation induced by Proteolysis Targeting Chimeras
- Opportunity to create new IP for new molecules that bind the E3 ligases



LIBRARY OF
MACROCYCLIC
CHEMICAL ENTITIES
TO INHIBIT PROTEIN
PROTEIN
INTERACTIONS















Andrei Yudin – Eric Marsault – Jeffrey Coull









- Non-exclusive rights for participating Pharma to screen the library
- Active mentorship from the participating Pharma
- Opportunity to co-develop lead candidates identified from the library screen



- Validation of the chemistry
- Fund raising (\$8.5 M) including from Pfizer and Takeda
- Development of 2 lead candidates for IBD by Encycle
- Acquisition by Zealand Pharma



INTRACELLULAR DELIVERY OF ANTIBODIES AND PEPTIDES USING THE FELDAN SHUTTLE TECHNOLOGY















Frédéric Calon – David Guay







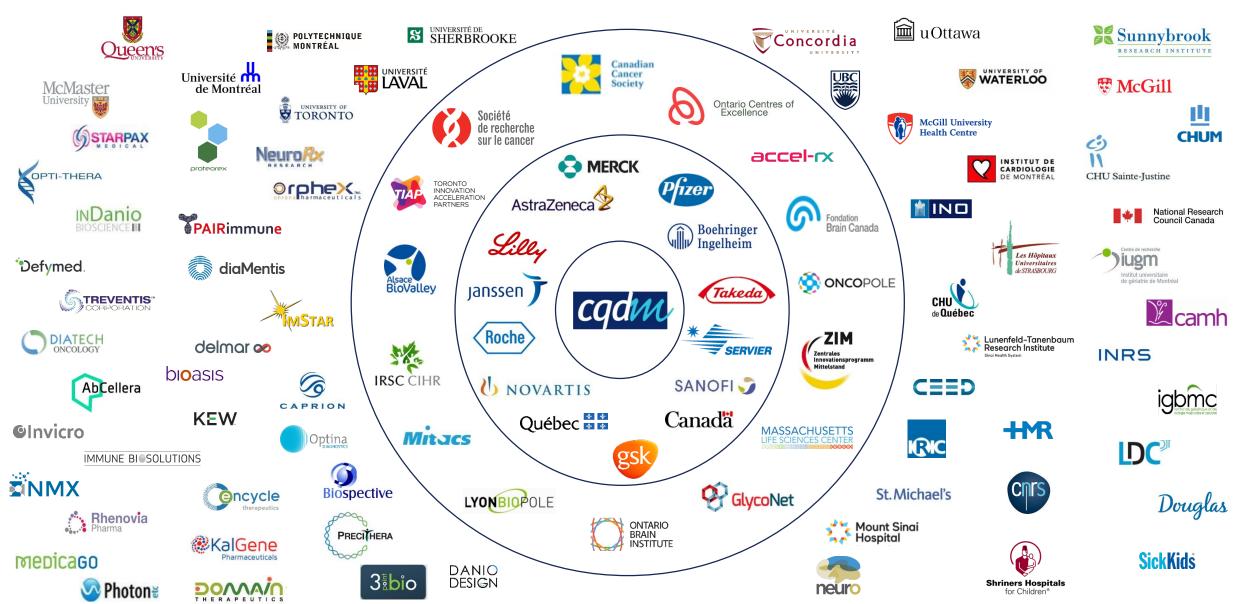
- Non-exclusive rights for participating Pharma to use the Feldan Shuttle for research purposes (for preclinical proof of concept)
- Active mentorship by the participating Pharma
- Early access to the results



- Proof of concept of intracellular delivery
- Opportunity to showcase the technology to 5 leading pharma organizations
- Potential co-development deal with leading pharma organizations
- Fund raising (\$20 M to date)



An Extended Canadian and International Partner Network





CQDM **PROVIDES THE IMPULSE**

for open innovation to benefit

ALL STAKEHOLDERS

