SRP: Terms of Reference

- Frame strategic research for the next 5 years in the Faculties of Medicine and Dentistry
- To direct recruitment, space attribution, financial support, targeted fund raising.
- Foster inter-disciplinary research with KT component at the interface of robust basic and clinical research.
- Achieve a very high level of research excellence in select areas
- Build on current areas of excellence and past investments
- Strategically positioned to stimulate innovation in a fundable environment
- Training the next generation of health researchers in a highly competitive and inter-disciplinary research environment
- The SRP recognizes the dynamic nature of research. It is a living document to be regularly reviewed and updated
Structure

- International Advisory Committee
- Dean of Medicine
- Dean of Dentistry
- SRP Steering Committee
- SRP Planning Committee
- Directors of Academic Units, Schools, Research Institutes, Centers
International Advisory Committee

- Philip E. Sharp (Massachusetts Institute of Technology)
- John Bell (Regius Professor, University of Oxford)
- Tom Hudson (Director, Ontario Institute for Cancer Research)
- Nancy Andrews (Dean of Medicine, Vice-Chancellor, Duke University)
- Lawrence Tabak (Principal Deputy Director, NIH)
- Alan Bernstein (President, Canadian Institute for Advanced Research)
Steering Committee

- David Eidelman (Medicine)
- Paul Allison (Dentistry)
- Vasilios Papadopoulos (MUHC)
- Rod McInnes (Lady Davis RI)
- Rose Goldstein (Vice-Principal, Research, International Relations)
- Morag Park (Director, Goodman Cancer Research Centre)
- Alain Gratton (Director, Douglas Institute Research Centre)
- John Orlowski (Director, Physiology)
- Jim Martin (Medicine, Meakins-Christie)
- Susan Law (St-Mary’s Hospital Centre)
- Guy Rouleau (Director, Montreal Neurological Institute)
- Sam Benaroya (Vice-Dean, Medicine)
- Annette Majnemer (Director, Physical & Occupational Therapy)
- Philippe Gros (Vice-Dean, Medicine)
- Marc McKee (AD Graduate Studies; Dentistry)
- Marianna Newkirk (AD Research, Medicine)
Planning Committee

- Philippe Gros (Biochemistry, Committee Chair)
- Marianna Newkirk (Medicine, Associate Dean Research)
- Marc McKee (Dentistry, Associate Dean)
- Marcel Behr (Medicine)
- Sam Daniel (Otolaryngology)
- Jocelyne Feine (Dentistry)
- Alyson Fournier (MNI Neurology & Neurosurgery)
- Nada Jabado (Pediatrics, Oncology)
- Carmen Loiselle (Nursing)
- Keith Murai (Neurology & Neurosurgery, Medicine)
- Pierre Pluye (Family Medicine)
- Dieter Reinhardt (Anatomy & Cell Biology)
- Brent Richard (Human Genetics, Medicine)
- Gustavo Turecki (Psychiatry)
General Framework for SRP
**DISEASE AREAS**
- Cancer
- Infection and Inflammation
- Neurosciences and Mental Health
- Aging, Disability and Chronic Diseases

**PRIORITIZED THEMES**
- Patient experience, population health and health services
- Genetic and environmental determinants of health and disease
- Systems and network approaches to health research
- Personalized medicine: customized approaches to patients care

**IMPLEMENTATION STRATEGIES**
- Strategic grouping and research fund
- Knowledge translation
- Enabling tools and platforms
- Building human capital
Major Disease Areas

- Neuroscience and Mental Health
- Cancer
- Infection and Inflammation
- Diseases associated with aging, disability and chronic conditions
Strategic Priorities (SP)

- Patient Experience, Population Health and Health Services
- Genetic and Environmental Determinants of Health and Disease
- Systems and Networks Approaches to Health Research
- Personalized Medicine: Customized Approaches to Patient Care
SP1: Patient Experience, Population Health and Health Services

- Social and environmental determinants of health
- Healthcare information technology
- Patients’ experience with health and illness, patient/family engagement, and interactions across the continuum of care
- Optimal health trajectories over the life-course
SP2: Genetic and Environmental Determinants of Health and Disease

- Gene discovery in rare diseases and in common complex disorders
- Epigenetic modulation of the genome in disease
- Extracellular matrix in normal cell signalling and in pathological situations
- Host-microbe interactions in infection, inflammation, development and cancer
SP3: Systems and Networks Approaches to Health Research

- Integrated “omics” approaches to biomedical research
- Integrating with health data
- Computational approaches to quantitative biology
- Imaging of cellular networks
SP4: Personalized Medicine: Customized Approaches to Patient Care

- Biomarkers- and molecular signature-based strategies for disease diagnosis, monitoring and treatment including clinical trials
- Personalized health improvement devices and delivery systems
- Precision engineering of animal-, cell- and protein-based models of human disease
- Customized health care delivery including for vulnerable groups
Implementation Strategies (IS)

- Encourage Inter-disciplinary research in strategic areas by supporting new research groupings
- Develop human capital and train the next generation of health researchers
- Foster creation and maintenance of enabling technology platforms
- Develop mechanisms to support research in strategic areas
IS1: Encourage Inter-disciplinary research in strategic areas by supporting new research groupings

- Create the Institute for Public Health and Population Research
- Create the Institute for Computational Biology and Medicine
- Develop a mechanism to solicit, and build new centers, institutes and schools
- Identify novel interfaces for innovative research
IS2: Develop human capital and train the next generation of health researchers

- Recruit talented junior investigators in the areas of strategic priority
- Develop innovative training programs for graduate, post-graduate students and health professionals
- Stimulate recruitment and training of clinician scientists
IS3: Foster creation and maintenance of enabling technology platforms

- Prioritize for infrastructure investments the areas of Genomics, Bioinformatics, and Imaging
- Develop a framework to financially support other enabling technology platforms
- Assist faculty in identifying needs and opportunity, and for obtaining funding
IS4: Develop mechanisms to support research in strategic areas

- Establish a strategic research fund to provide financial support
- Continue to support existing programs in studentships, fellowships and bridge funding
- Implement the Merck research funding program
- Deploy centers for administrative excellence
Next Steps

- Broad Consultation with Community for Input (web-based)
- Develop Metrics, Objectives, and Milestones
- Approval by International Advisory Committee
- Initiate Implementation
- Set-up Mechanism for Periodic Review (Implementation Committee)
Thank you

To all at McGill who have directly contributed (n > 70)

To Deans Eidelman and Allison for their trust

To Marianna Newkirk, and Marc McKee for reviewing many many drafts

To Marianne Provost for support
Units that submitted SRP docs (>90 priorities)

- Anatomy and Cell Biology
- Biochemistry
- Biomedical Engineering
- Dentistry
- Anesthesia
- Oncology
- Psychiatry
- Family Medicine
- Goodman Cancer Research Centre
- McGill/GQ Innovation Centre
- Medicine
- MUHC Res. Institute
- Microbiology and Immunology
- Neurology and Neurosurgery
- Obstetrics and Gynecology
- Ophthalmology
- Otolaryngology
- Pediatric Surgery
- Pediatrics
- Pharmacology and Therapeutics
- Human Genetics
- LDI
- School of Communication Sci. and disorders
- School of Nursing
- P and OT
- St. Mary’s research Center
- Surgery
- Epidemiology, Biostatistics and Occupational Health
Contributors (Chairs, Directors, Colleagues)

- Craig.mandato@mcgill.ca
- David.thomas@mcgill.ca
- Henrietta.galiana@mcgill.ca
- Marc.mckee@mcgill.ca
- Steve.backman@mcgill.ca
- Eduardo.franco@mcgill.ca
- Alain.gratton@mcgill.ca
- Howard.bergman@mcgill.ca
- Morag.park@mcgill.ca
- Peter.siegel@mcgill.ca
- David.rosenblatt@mcgill.ca
- Mark.lathrop@mcgill.ca
- Rod.mcInnes@mcgill.ca
- Jim.martin@mcgill.ca
- Vassilios.papadopoulos@mcgill.ca
- Joaquin.madrenas@mcgill.ca
- Lesley.fellows@mcgill.ca
- Leonard.levin@mcgill.ca
- Denis.querleu@mcgill.ca
- Saul.frenkel@mcgill.ca
- Jean-pierre.farmer@mcgill.ca
- Michael.shevell@mcgill.ca
- Gerhard.multhaup@mcgill.ca
- John.orlowski@mcgill.ca
- Marc.pell@mcgill.ca
- Susan.law@mcgill.ca
- Annette.majnemer@mcgill.ca
- Helene.ezer@mcgill.ca
- Gerald.fried@mcgill.ca
- Gilles.paradis@mcgill.ca
- Marianna.newkirk@mcgill.ca
- Mari.mckee@mcgill.ca
- Marcel.behr@mcgill.ca
- Sam.daniel@mcgill.ca
- Jocelyne.feine@mcgill.ca
- Pierre.pluye@mcgill.ca
- Dieter.reinhardt@mcgill.ca
- Brent.richards@mcgill.ca
- Nada.jabado@mcgill.ca
- Gustavo.turecki@mcgill.ca
- Carmen.loiselle@mcgill.ca
- Eduardo.franco@mcgill.ca
- David.eidelman@mcgill.ca
- Rose.goldstein@mcgill.ca
- Vassilios.papadopoulos@mcgill.ca
- Rod.mcInnes@mcgill.ca
- Guy.rouleau@mcgill.ca
- Alain.gratton@mcgill.ca
- Sam.benaroya@mcgill.ca
- Susan.law@mcgill.ca
- John.orlowski@mcgill.ca
- Mark.lathrop@mcgill.ca
- Rob.kearby@mcgill.ca
- Celia.greenwood@mcgill.ca
- Constantin.polychronakos@mcgill.ca
- Brent.richards@mcgill.ca
- Phil.barker@mcgill.ca
- Alain.gratton@mcgill.ca
- Howard.bergman@mcgill.ca
- Morag.park@mcgill.ca
- Phil.branton@mcgill.ca
- Susan.law@mcgill.ca
- Nada.jabado@mcgill.ca
- Annette.majnemer@mcgill.ca
- Kaberi.dasgupta@mcgill.ca
Timeline

1. **May-July 2012**: Planning; Terms of Reference; Design and Recruitment of Committees; Questionnaire for Units.
2. **August-November 2012**: Receipt of Documents; Working Groups in key areas; Recommendations
3. **December-January 2013**: Input from Steering Committee; Approval of Final Framework and Priorities
4. **February-April 2013**: Drafting of Narratives (in progress).
5. **May-July 2013**: Finalize documents; Input from Units; Approval by Steering Committee and Deans.
6. **Fall 2013**: Meeting of International Advisory; Final Approval