

APPENDIX XIII.

NEW & ONGOING GRANTS

held by MPU FACULTY MEMBERS in 2013

Grants are generally attained under the auspices of the grantee's primary department, *i.e.*, either through McGill University (Oncology or Neurology & Neurosurgery) or the McGill University Health Center (Medical Physics).

[Amounts listed are annual unless otherwise stated]

COLLINS, D.L.

D.L. Collins (PI), D.L. Arnold <i>Development and validation of MRI biomarkers for diagnosis and prognosis of prodromal Alzheimer's disease</i> Canadian Institutes of Health Research (CIHR), operating grant (2011-2014).....	\$127,913
K. Siddiqi, D.L. Collins et al. <i>Medical image analysis</i> Natural Sciences & Engineering Research Council (NSERC), CREATE grant (2012-2018).....	\$300,000
J. Seuntjens, D.L. Collins et al. <i>Medical physics research training network (MRPTN)</i> Natural Sciences & Engineering Research Council (NSERC), CREATE grant (2013-2019).....	\$300,000
K. Siddiqi, D.L. Collins et al. <i>Reconstruction angulaire et radiale dans l'IRM de diffusion</i> Fonds de recherche du Québec-Nature et technologies (FQRNT), team grant (2011-2014).....	\$42,000
D.L. Collins et al. <i>Image guided neurosurgery: Improving guidance during spinal surgery</i> Canadian Institutes of Health Research (CIHR), operating grant (2009-2013).....	\$251,157
D.L. Collins et al. <i>Computational and statistical tools for image-guided neurosurgery of brain tumors</i> Certified Human Resources Professional (CHRP), Natural Sciences & Engineering Research Council (NSERC) & Canadian Institutes of Health Research (CIHR), collaborative health research projects (2010-2013).....	\$209,399
D.L. Collins <i>Atlasing for image guided surgery</i> Natural Sciences & Engineering Research Council (NSERC), discovery grant (2006-2014).....	\$40,000

D.L. Collins et al.

Entre le laboratoire et le chevet: Validation de biomarqueurs optimizes par resonance magnétique pour le diagnostique Clinique précoce et le prognostique dans la maladie d'Alzheimer

Fonds de recherche du Québec (FRQ), FRSQ-Pfizer

(2012-2015)\$199,600

D.L. Collins

Tech transfer for MRI biomarkers

Montreal Neurological Institute (MNI), Centres of Excellence for Commercialization & Research (CECR) grant

(2012-2013)\$79,000

DEBLOIS, F.

F. DeBlois (co-applicant) et al.

VIRA – Virtual Isocenter RapidArc

Varian, research grant

(2013-2014)\$25,000

DEVIC, S.

S. Devic (PI)

Radiochromic film dosimetry

Natural Sciences & Engineering Research Council (NSERC), operating grant

(2010-2015)\$27,000

S. Devic

Dosimetrie à film radiochromique

Fonds de la Recherche en Santé du Québec (FRSQ)

Bourse de chercheur-boursier Junior 2

(2011-2013)\$77,515

EL NAQA, I.

I. El Naqa

Start-up grant

Fast Foundation, lab start-up grant (new Faculty)

(2010-2013)\$150,000

I. El Naqa (PI)

A real-time framework for image-guided adaptive radiotherapy

Natural Sciences & Engineering Research Council (NSERC), discovery grant

(2011-2016)\$57,000

I. El Naqa (PI)

Modeling of radiotherapy induced damage in locally advanced lung cancer by a novel system radiobiology approach

Canadian Institutes of Health Research (CIHR)

(2011-2016)\$135,790

I. El Naqa (PI)

Computational and computational systems radiobiology infrastructure for biomarker discovery and radiosignaling modeling of radiation-induced normal tissue toxicities in cancer patients
Canadian Foundation for Innovation – Infrastructure Operating Fund (CFI-IOF)
(2012-2017)\$60,000

I. El Naqa

Nanosensors for real-time radiotherapy imaging
McGill Collaborative Research & Development Fund
(2012-2013)\$20,000

J. Seuntjens, **I. El Naqa** et al.

Medical Physics Research Training Network (MPRTN)
Natural Sciences & Engineering Research Council – Collaborative Research & Training Experience (NSERC-CREATE), CREATE grant
(2013-2019)\$ 300,000

EVANS, M.

J. Seuntjens, **M. Evans**, J. Kildea

Research collaboration: Radiation protection for neutrons
Canadian Nuclear Safety Commission (CNSC)
(2012-2013)\$15,000

KILDEA, J.

J. Seuntjens, M. Evans, **J. Kildea**

Research collaboration: Radiation protection for neutrons
Canadian Nuclear Safety Commission (CNSC), student support
(2012-2013)\$15,000

J. Kildea

An analysis of the effectiveness of automated pre-, post- and intra-treatment auditing of electronic health records
Canadian Patient Safety Institute (CPSI), student support
(matching funds from MRPTN-CREATE grant)
(2013-2014)\$7,000

J. Kildea et al.

Patient education material
Rossey Cancer Network, grant
(2013)\$20,000

LEHNERT, S.M.

S.M. Lehnert (PI)

Evaluation of radioprotective drug: Studies involving total body irradiation
L.A.B. Institut de Recherche in Pharmacie Industrielle Inc, Contract
(2005-2013)\$50,875

I. El Naqa, **S.M. Lehnert**, et al
Modeling of radiotherapy induced damage in locally advanced lung cancer by a novel system radiobiology approach
Canadian Institutes of Health Research (CIHR)
(2011-2016)\$135,790

LEVESQUE, I.R.

I.R. Levesque (PI)
Start-up grant
Montreal General Hospital Foundation, Research Institute-McGill University Health Centre (MGH, RI-MUHC)
(2013-2016).....\$75,000

PARKER, W.

D. Roberge, J.P. Bahary, C. Laverdière, C.R. Freeman, J. Seuntjens, **W. Parker**
Évaluation de l'impact potential d'un centre Québécois de protonthérapie pour les jeunes survivants de cancer
Fonds de recherche en santé Québec (FRSQ)
(2010-2013).....\$95,318

J. Seuntjens, C.R. Freeman, **W. Parker**, G. Shenouda
Monte Carlo-based mixed electron/photon beam inverse treatment planning, delivery and verification
Canadian Institutes for Health Research (CIHR)
(2010-2015).....\$60,000

PIKE, G.B. (total grant amount)

G.B. Pike et al.
Quantitative magnetic resonance imaging of multiple sclerosis
Canadian Institutes of Health Research (CIHR), operating grant
(2010-2015).....\$805,242

R. Zatorre, V. Penhume (PIs), A. Evans, K. Hyde, **G.B. Pike**
Brain anatomy in auditory and motor learning: Predispositions & plasticity
Canadian Institutes of Health Research (CIHR), operating grant
(2010-2015).....\$609,163

T. Paus, **G.B. Pike**, D. Gaudet
Programming brains across generations: How early environment and genes shape the risk of addiction
Canadian Institutes of Health Research (CIHR), team grant (Canada-Finland)
(2011-2014).....\$1,000,000

D.L. Arnold, S. Narayanan, **G.B. Pike**
Imaging inflammation in MS
MSSS, operating grant
(2011-2013).....\$238,564

D.L. Arnold, G.B. Pike , S. Narayanan <i>MTR assessment of remyelinating therapies</i> MSSS, operating grant (2011-2013).....	\$183,194
M. Beauregard, A Brunet, G.B Pike <i>Self-regulation of ventromedial prefrontal activity in post-traumatic stress disorder: A real-time fMRI neurofeedback study</i> Quebec Bio-Imaging Network, Strategic Initiative Program (2011-2013).....	\$49,925
V. Gracco, G.B. Pike et al. <i>Regroupement pour la recherche sur le cerveau, le langage et la musique</i> FQRNT and FQRSC (2011-2017).....	\$2,250,000
K. Siddiqi, D.L. Collins, G.B. Pike <i>Reconstruction angulaire et radiale dan l'IRM de diffusion (Radian and angular reconstruction in diffusion MRI)</i> FQRNT, team grant (2011-2014).....	\$126,000
K. Hyde, G.B. Pike , E. Fombonne <i>Auditory processing in typical development and in autism spectrum disorder: Insight from the brain and behavior</i> Canadian Institutes of Health Research (CIHR), operating grant (2011-2016).....	570,545
G.B. Pike (McGill) (PI), J. Near (Oxford) <i>Undersampled two-dimensional magnetic resonance spectroscopy for accurate quantification of tissue metabolites in-vivo</i> Oxford-McGill Neuroscience Collaboration Funding (OMNC) (2011-2014).....	\$10,800
G.B. Pike et al. <i>Functional MRI of brain physiology</i> Canadian Institutes of Health Research (CIHR), operating grant (2012-2017).....	\$1,031,795
G.B. Pike et al. <i>MRI acquisition and analysis methods for image guided neurosurgery</i> Natural Sciences & Engineering Research Council (NSERC), discovery grant (2012-2017).....	\$260,000
G.B. Pike et al. <i>CREATE program in medical image analysis</i> Natural Sciences & Engineering Research Council – Collaborative Research & Training Experience (NSERC-CREATE), CREATE grant (2012-2018).....	\$1,650,000
J. Seuntjens, G.B. Pike et al. <i>Medical Physics Research Training Network (MPRTN)</i> Natural Sciences & Engineering Research Council – Collaborative Research & Training Experience (NSERC-CREATE), CREATE grant (2013-2019).....	\$2,000,000

G.B. Pike et al.

Electrical and metabolic analysis of human epileptogenic lesions
Canadian Institutes of Health Research (CIHR), operating grant
(2013-2018).....\$805,000

G.B Pike

Health brain aging
Campus Alberta Innovates Chair, grant
(2013-2020).....\$4,500,000

READER, A. (total grant amount)

A.J. Reader

Canada Research Chair in Positron Emission Tomography
Canada Research Chairs Program
(2008-2013).....\$500,000

A.J. Reader

*Scanner-adaptive image reconstruction platform for accelerated technology transfer in
Positron emission tomography*
Centre of Excellence in Commercialization & Research (CECR)
(2010-2013).....\$100,000

A.J. Reader

Task-oriented optimization of high- performance positron emission tomography
Natural Sciences & Engineering Research Council (NSERC)
(2010-2015).....\$135,000

A.J. Reader

Infrastructure operating grant
McGill University
(2012-2013).....\$24,000

A.J. Reader

Canada Research Chair in Positron Emission Tomography
Canada Research Chairs Program (renewal)
(2013-2018).....\$500,000

J. Seuntjens, A.J. Reader et al.

Medical Physics Research Training Network (MPRTN)
Natural Sciences & Engineering Research Council – Collaborative Research
& Training Experience (NSERC-CREATE), CREATE grant
(2013-2019).....\$2,000,000

SEUNTJENS, J.

J. Seuntjens et al.

*Accurate reference dosimetry of non-standard beams using water calorimetry,
ionization chambers and Monte Carlo dose calculations*
Natural Sciences & Engineering Research Council (NSERC), discovery grant
(2009-2013).....\$267,000

D. Roberge (PI), J. Seuntjens , et al. <i>Evaluation de l'impact potentiel d'un centre Québécois de protonthérapie chez les jeunes survivants de cancer</i> Fonds de la recherche en santé de Québec (FRSQ), research grants (2010-2013).....	\$285,955
J. Seuntjens et al. <i>Monte Carlo-based mixed electron/photon beam inverse treatment planning, delivery & verification</i> Canadian Institutes for Health Research (CIHR), operating grant (2010-2015).....	\$300,000
J. Seuntjens <i>"Bourse" for students in medical physics</i> Ministère de la santé et des services sociaux du Québec (2011-2013).....	\$34,000
J. Seuntjens , M. Evans, J. Kildea <i>Research collaboration: Radiation protection for neutrons</i> Canadian Nuclear Safety Commission (CNSC) (2012-2013).....	\$15,000
J. Seuntjens <i>"Bourse" for students in medical physics</i> Ministère de la santé et des services sociaux du Québec (2012-2014).....	\$34,000
J. Seuntjens <i>"Bourse" for students in medical physics</i> Ministère de la santé et des services sociaux du Québec (2013-2015).....	\$34,000
J. Seuntjens et al. <i>Medical Physics Research Training Network (MPRTN)</i> Natural Sciences & Engineering Research Council – Collaborative Research & Training Experience (NSERC-CREATE), CREATE grant (2013-2019).....	\$2,000,000
 <u>SOISSON, E.T.</u>	
D. Roberge (PI), E.T. Soisson et al. <i>Evaluation de l'impact potentiel d'un centre Québécois de protonthérapie chez les jeunes survivants de cancer</i> Fonds de la recherche en santé de Québec (FRSQ), research grants (2010-2013).....	\$285,955
 <u>SYME, A.</u>	
A. Syme (co-applicant) et al. <i>VIRA – Virtual Isocenter RapidArc</i> Varian, research grant (2013-2014).....	\$25,000