

SCN 2016 Funding Results: Disease Team Program

Principal Investigator	Co-Investigator	Project Title	SCN funds allocated
Timothy Kieffer – UBC	James Johnson (UBC), Francis Lynn (UBC), Brad Hoffman (UBC)	Optimizing stem cell derived beta-cell therapy for diabetes	\$ 500,000
Anne Marinier – U de M	Guy Sauvageau (U de M), Connie Eaves (UBC), Keith Humphries (UBC)	Development of hematopoietic stem cell expanding molecules towards the ideal transplant	\$ 500,000
Freda Miller – Hospital for Sick Children (HSC)	Cindi Morshead (U of T), Jing Wang (OHRI), Paul Frankland (HSC), David Kaplan (HSC), Ann Yeh (HSC), Doug Munoz (Queen’s U), Donald Mabbott (HSC), Wolfram Tetzlaff (UBC)	Pharmacological recruitments of endogenous neural precursors to promote pediatric white matter repair	\$ 500,000
Andras Nagy – Lunenfeld-Tanenbaum Research Inst.	Armand Keating (UHN), Mohit Kapoor (UHN), Sowmya Viswanathan (U of T)	Combining gene and mesenchymal stromal cell therapies: steps toward curing arthritis	\$ 394,623
Massimiliano Paganelli – CHU Sainte-Justine		Treatment of chronic liver failure by stem cell-derived mature liver tissue	\$ 199,982
James Shapiro – U of A	Gregory Korbitt (U of A)	Development of a novel stem cell-derived transplant modality for type 1 diabetes	\$ 496,905

Vahab Soleimani – McGill	Colin Crist (McGill), Simon Tran (McGill), Faleh Tamimi Marino (McGill), Hamed S. Najafabadi (McGill)	Interfering Niche-related Reprogramming of stem cells during aging	\$ 200,000
Bruce Verchere – UBC	Francis Lynn (UBC), Timothy Kieffer (UBC), Megan Levings (UBC)	Genetic manipulation of hESC-derived insulin-producing cells to improve graft outcomes	\$ 490,000

*** Project titles posted as per language of submission**

SCN 2016 Funding Results: Clinical Trials

Principal Investigator	Co-Investigators	Project Title	SCN Funds Allocated
Harold Atkins – OHRI	Gary Levy – UHN	Using hematopoietic stem cell transplantation to regenerate a naïve immune system tolerant to liver allografts	\$ 215,700
Sandra Cohen – Hôpital Maisonneuve-Rosemont (HMR)	Jean-Sébastien Delisle (HMR), Guy Sauvageau (HMR)	Making cord blood hematopoietic stem cell expansion competitive	\$ 999,968
Timothy Kieffer – UBC	David Thompson (UBC), Garth Warnock (UBC), Graydon Meneilly (UBC), Megan Levings (UBC)	A stem cell therapy for insulin replacement in patients with diabetes	\$ 500,000
Lauralyn McIntyre – OHRI	John Marshall (U of T), Keith Walley (UBC), Claudia dos Santos (St Michael’s Hospital), Brent Winston (U of C), Shane English (OHRI), Alexis Turgeon (Laval U), Geeta Mehta (Sinai Health System), Robert Green (Dalhousie), Alison Fox-Robichaud (McMaster), Margaret Herridge (U of T), John Granton (U of T), Paul Hebert (CRCHUM), Duncan Stewart (OHRI), Shirley Mei (OHRI), Dean Fergusson (OHRI), Kednapa Thavorn (OHRI), Timothy Ramsay (OHRI)	Cellular immunotherapy for septic shock (CISS): A Phase II Multicenter Clinical Trial	\$ 1,000,000

James Shapiro - U of A	Peter Senior (U of A)	Clinical trials in stem cell transplantation - solving the supply and the survival problem in Type 1 diabetes	\$ 499,596
Duncan Stewart - OHRI	David Courtman (OHRI)	Enhanced angiogenic Cell Therapy in Acute Myocardial Infarction (ENACT-AMI)	\$ 999,546

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SCN 2016 Funding Results: Impact Research Program

Investigators	Project Stream	Project Title	SCN Funds Allocated
Liam Brunham - UBC (Principal Investigator) CI: Glen Tibbits – SFU	Clinical Translation	Using human pluripotent stem cell-derived cardiomyocytes to investigate the mechanisms of ibrutinib-induced atrial fibrillation	\$ 100,000
Timothy Caulfield – U of A (Principal Investigator) CI: Amy Zarzeczny – U of R	Public Policy	Stem Cells and Misleading Marketing Claims	\$ 50,000
Colin Crist – McGill (Principal Investigator) CI: Jean-Philip Lumb – McGill	Clinical Translation	Activation of muscle stem cells by pharmacological inhibitors of eIF2a phosphorylation	\$ 99,842
Lucie Germain – Laval U (Principal Investigator) CI: Bartha Knoppers – McGill	Clinical Translation	Treatment of Patients with Corneal Limbal Stem Cell Deficiencies using Cultured Epithelial Corneal Autografts	\$100,000
Kristin Hope – McMaster (Principal Investigator)	Commercialization	Methods and Compositions for Expansion of Human Hematopoietic Stem and Progenitor Cells	\$ 100,000
Judy Illes – UBC (Principal Investigator)	Public Policy	Decision-Making in Translation: Urgency, Access, and Evaluation in Off-Label Stem Cell Interventions	\$ 50,000
James D. Johnson – UBC (Principal Investigator)	Clinical Translation	Imaged-based screening to enhance insulin production in human embryonic stem cells	\$ 100,000

Timothy J. Kieffer – UBC (Principal Investigator)	Clinical Translation	Biodistribution of Differentiated Stem Cells Following Subcutaneous Transplant	\$ 100,000
Megan Levings – UBC (Principal Investigator) CI: Lori West – U of A	Clinical Translation	Garbage To Gold: Expansion of Therapeutic Regulatory T Cells From Discarded Thymus	\$ 100,000
Joanne Matsubara – UBC (Principal Investigator) CI: Marinko Sarunic – SFU	Commercialization	Treating advanced retinal degeneration - rebuilding multiple co-dependent retinal layers with a single injection of stem-cell-derived-graft	\$ 99,502
Kelly McNaghy – UBC (Principal Investigator)	Clinical Translation	CAR-T cell therapy targeting tumor-specific modifications of Podocalyxin in triple negative breast cancer	\$ 100,000
Ubaka Ogbogu – U of A (Principal Investigator) CI: Amy Zarzeczny – U of R	Public Policy	Regulating the Future: Model Policies for Emerging Stem Cell Research Activities, including Research on Gene-Edited and Reconstituted Embryos	\$ 50,000
Ian Rogers – Mount Sinai Hospital (Principal Investigator)	Commercialization	Improving efficacy and economics of kidney disease therapies using iPS cells	\$ 90,811
Mark Ungrin – U of C (Principal Investigator)	Commercialization	Scalable production of engineered microtissues	\$ 100,000
Sowmya Viswanathan – U of T (Principal Investigator) CI: Paula Foster – UWO	Clinical Translation	Iron labeled-mesenchymal stromal cells for clinical tracking in ameded Phase 1 trial in Osteoarthritis patients	\$ 100,000

CI: Mohit Kapoor – U of T			
Stephanie Willerth – U of V (Principal Investigator)	Commercialization	3D bioprinting of neural tissue from human pluripotent stem cells	\$100,000
Peter Zandstra – U of T (Principal Investigator)	Clinical Translation	Clinical Culture Optimization to Maximize Cord Blood Derived Hematopoietic Stem Cell Expansion	\$ 100,000
CI: Guy Sauvageau – U de M			
CI: Julie Audet – U of T			

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