

SCN 2020-2022 Round 2 Funding Results: Accelerating Clinical Translation program

Principal Investigator with Co-Investigators and Collaborators	Project Title	SCN Funds Allocated
<p>Lucie Germain, Université Laval (ULaval)</p> <p>Manuel Caruso (ULaval), Bartha Knoppers (McGill University), Elena Pope (The Hospital for Sick Children)</p>	<p>Towards an epidermolysis bullosa clinical trial with tissue-engineered skin after ex vivo gene therapy correction</p>	<p>\$400,000</p>
<p>Guy Sauvageau, Université de Montréal (UMontréal), Hôpital Maisonneuve-Rosemont (HMR)</p> <p>Vincent-Philippe Lavallée (UMontréal), Peter Zandstra (University of British Columbia), Silvy Lachance (HMR)</p>	<p>Bone marrow stem cell expansion with UM171: a better solution for patients and donors</p>	<p>\$400,000</p>
<p>James Shapiro, University of Alberta (UAlberta)</p> <p>Gregory Korbitt (UAlberta), Patrick MacDonald (UAlberta), Colin Anderson (UAlberta), Jean Buteau (UAlberta), Andrew Pepper (UAlberta), Timothy Kieffer (University of British Columbia)</p>	<p>Autologous Patient-derived Islets from Induced Pluripotent Stem Cells (iPSC): The Next Generation Diabetes Therapy</p>	<p>\$400,000</p>
<p>Glen Tibbits, Simon Fraser University, BC Children's Hospital Research Institute</p> <p>Filip Van Petegem (University of British Columbia), Shubhayan Sanatani (University of British Columbia), Francis Lynn (University of British Columbia), SR Wayne Chen, (University of Calgary), Mu Chiao (University of British Columbia), Zachary Laksman (University of British Columbia), Patrice Eydoux (BC Children's Hospital Research Institute), Leif Hove-Madsen (Institut d'investigacions Biomèdiques de Barcelona)</p>	<p>Developing a hiPSC-CM based model for personalized treatment of catecholaminergic polymorphic ventricular tachycardia (CPVT)</p>	<p>\$399,950</p>

<p>Ann Yeh, The Hospital for Sick Children (SickKids), University of Toronto</p> <p>Donald Mabbott (SickKids), Douglas Munoz (Queen’s University), Freda Miller (SickKids), David Kaplan (SickKids), Cindi Morshead, (University Health Network), Jing Wang (Ottawa Hospital Research Institute), Paul Frankland (SickKids), Wolfram Tetzlaff (University of British Columbia), Jiwon Oh (St. Michael’s Hospital), Giulia Longoni (SickKids)</p>	<p>Pharmacological recruitment of endogenous neural precursors to promote white matter repair in MS</p>	<p>\$399,997</p>
<p>J.C. Zúñiga-Pflücker, Sunnybrook Research Institute</p> <p>Donna Wall (The Hospital for Sick Children), Jonas Mattsson (Princess Margaret Cancer Centre)</p>	<p>Production of progenitor T cells for immune-reconstitution and targeted immunotherapies (ProTImm)</p>	<p>\$400,000</p>

SCN 2020-2022 Round 2 Funding Results: *Fueling Biotechnology Partnerships* program

Principal Investigator with Co-Investigators and Collaborators	Project Title	SCN Funds Allocated
<p>Bernard Thébaud, Ottawa Hospital Research Institute (OHRI), University of Ottawa, Children’s Hospital of Eastern Ontario (CHEO)</p> <p>Sarah Wootton (University of Guelph), Dean Fergusson (OHRI), Rénauld Gilbert (National Research Council Canada), Parminder Chahal (National Research Council Canada), John Bell (OHRI), Amine Kamen (McGill University), Larry Nogee (John Hopkins University School of Medicine), Jeffrey Whitsett (University of Cincinnati), Alice Tarantal (UC Davis School of Medicine), Michael Jamieson (OHRI), Hartmut Grasmann (University of Toronto), Nicolaus Schwerk (Hannover Medical School), Matthias Griese (Ludwig-Maximilian Universität), Kednapa Thavorn (OHRI)</p>	<p>AAVenger: Adeno-Associated Virus Engineered Gene Epithelial progenitor cell Regeneration</p>	<p>\$364,000</p>

<p>Peter Zandstra, University of British Columbia (UBC)</p> <p>Robert Holt (UBC), David Knapp (Université de Montréal), J.C. Zúñiga-Pflücker (Sunnybrook Research Institute), Christopher Sturgeon (Washington University School of Medicine)</p>	<p>Enabling a platform for customized pluripotent stem cell derived T-cell therapies</p>	<p>\$350,000</p>
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SCN 2020-2022 Round 2 Funding Results: *Innovative Research Program for Early Career Investigators*

Principal Investigator with Co-Investigators and Collaborators	Project Title	SCN Funds Allocated
<p>Natasha Chang, McGill University</p> <p>Imed Gallouzi (McGill University), Jerry Pelletier (McGill University), Gerald Pfeffer (University of Calgary)</p>	<p>Targeting muscle stem cells to enhance endogenous repair in Duchenne muscular dystrophy</p>	<p>\$150,000</p>
<p>Jessica Esseltine, Memorial University of Newfoundland</p> <p>Kathleen Hodgkinson (Memorial University of Newfoundland), Terry-Lynn Young (Memorial University of Newfoundland), Darren O’Rielly (Eastern Health Molecular Genetics Lab), Sean Connors (Memorial University of Newfoundland), Bruno Stuyvers (Memorial University of Newfoundland)</p>	<p>A personalized, translational approach to understanding inherited Arrhythmogenic Right Ventricular Cardiomyopathy in Newfoundland</p>	<p>\$150,000</p>
<p>Mireille Khacho, University of Ottawa (UOttawa)</p> <p>Jodi Warman (UOttawa), Mary-Ellen Harper (UOttawa), Julie St. Pierre (UOttawa), William Stanford (UOttawa), Michael Rudnicki (UOttawa), Valentina Perissi (Boston University)</p>	<p>Mitochondrial dynamics as a therapeutic target for muscle stem cells in muscle wasting diseases</p>	<p>\$150,000</p>
<p>Yun Li, The Hospital for Sick Children (SickKids)</p> <p>Julien Muffat (SickKids), Michael Wilson (SickKids), Lu-Yang Wang (SickKids)</p>	<p>Engineering an organoid model of the hippocampal neurogenic niche for basic and translational research</p>	<p>\$150,000</p>

<p>Stephanie Protze, McEwen Stem Cell Institute, University Health Network</p> <p>Zachary Laksman (University of British Columbia), Michael Laflamme (University Health Network), Gary Bader (University of Toronto), Igor Efimov (George Washington University)</p>	<p>Developing stem cell-based biological pacemakers for patients with sick sinus syndrome</p>	<p>\$150,000</p>
<p>Jo Anne Stratton, McGill University</p> <p>Tom Durcan (McGill University), Luke Healy (McGill University)</p>	<p>Human iPSC ependymal cells: An innovative model to study human brain in health and disease</p>	<p>\$150,000</p>
<p>Amy Wong, The Hospital for Sick Children (Sickkids)</p> <p>Sidhartha Goyal (University of Toronto), Brent Stead (Specific Biologics Inc.)</p>	<p>Elucidating the role of CFTR in human fetal lung lineage development</p>	<p>\$150,000</p>

SCN 2020-2022 Round 2 Funding Results: *Translation & Society Team Awards*

Principal Investigator with Co-Investigators and Collaborators	Project Title	SCN Funds Allocated
<p>Bernard Thébaud, Ottawa Hospital Research Institute (OHRI), University of Ottawa, Children’s Hospital of Eastern Ontario (CHEO)</p> <p>Manoj Lalu (OHRI), Kelly Cobey (OHRI), Jacques Galipeau (University of Wisconsin-Madison), Donald G. Phinney (The Scripps Research Institute), Douglas Sipp (Keio University), Michael Matthay (University of California), Tania Bubela (Simon Fraser University), Michael Rosu-Myles (Health Canada), Dean Fergusson (OHRI), David Moher (OHRI), Jeremy Grimshaw (OHRI)</p>	<p>Clearing-up the stem-cell-mess: Delphi-based definition and reporting guidelines to improve transparency in MSC research</p>	<p>\$175,000</p>

SCN COVID-19 Rapid Response Research Initiative Funding Results

Principal Investigator with Co-Investigators and Collaborators	Project Title	SCN Funds Allocated
<p>Duncan Stewart, Ottawa Hospital Research Institute (OHRI)</p> <p>Dean Fergusson (OHRI), Shane English (OHRI), Manoj M. Lalu (OHRI), Bernard Thébaud (OHRI), David Courtman (OHRI)</p>	<p>Cellular Immuno-Therapy for COVID-19 induced Acute Respiratory Distress Syndrome: the CIRCA-19 Trial</p>	<p>\$300,000</p>
<p>William Stanford, Ottawa Hospital Research Institute (OHRI)</p> <p>Amy Wong (The Hospital for Sick Children), Molly Shoichet (University of Toronto), Stephen Juvet (University of Toronto), Samira Mubareka (Sunnybrook Research Institute), Scott Gray-Owen (University of Toronto), Mitchell Sabloff (OHRI)</p>	<p>Identifying and targeting pulmonary and immune mechanisms in COVID-19 using human stem cell derived lineages</p>	<p>\$195,870</p>
<p>Julien Muffat, The Hospital for Sick Children (SickKids)</p> <p>Yun Li (SickKids), Samira Mubareka (Sunnybrook Research Institute), Scott Gray-Owen (University of Toronto), Jason Moffat (University of Toronto), Louis Flamand (CHU de Québec-Université Laval)</p>	<p>Investigating the role of inflammatory responses in neurological effects of COVID-19, using patient-derived stem cell models</p>	<p>\$180,000</p>

SCN 2019-2022 Round 1 Funding Results: *Accelerating Clinical Translation* program

Principal Investigator with Co-Investigators and Collaborators	Project Title	SCN Funds Allocated
<p>Zachary Laksman, University of British Columbia (UBC)</p> <p>Gordon Keller (University Health Network) Glen Tibbits (UBC), Liam Brunham (UBC), David Voadlo (Simon Fraser University), Francis Lynn (UBC), Lior Gepstein (Technion – Israel Institute of Technology), Patrick Boyle (University of Washington), Shubhayan Sanatani (BC Children’s Hospital Research Institute)</p>	<p>Pipeline Towards Stem Cell Driven Personalized Medicine for Atrial Fibrillation</p>	<p>\$586,000</p>
<p>Michael Laflamme, McEwen Stem Cell Institute, University Health Network (UHN)</p> <p>Nilesh Ghugre (Sunnybrook Research Institute), Graham Wright (Sunnybrook Research Institute), Gordon Keller (UHN), Ren-Ke Li (UHN), Terrence Yau (UHN), Kumaraswamy Nanthakumar (UHN), Lior Gepstein (Technion – Israel Institute of Technology), Matthew Kay (George Washington University)</p>	<p>Heart Regeneration with Mature Ventricular Cardiomyocytes from Human Pluripotent Stem Cells</p>	<p>\$599,685</p>
<p>M. Cristina Nostro, McEwen Stem Cell Institute, University Health Network (UHN), University of Toronto</p> <p>Greg Korbitt (University of Alberta), Andrew Pepper (University of Alberta), Esmé Dijke (University of Alberta), James Shapiro (University of Alberta), Joanna Preston (TEC Edmonton), Atul Humar (UHN)</p>	<p>Co-localized hiPSC-derived Beta Cells and Immunosuppression-loaded Micelles as a Novel Approach for T1D Treatment</p>	<p>\$600,000</p>
<p>Bruce Verchere, University of British Columbia (UBC)</p>	<p>Genetic Manipulation of hES-derived Insulin-producing Cells to</p>	<p>\$600,000</p>

Francis Lynn (UBC), Megan Levings (UBC), Tim Kieffer (UBC), Dina Panagiotopoulos (UBC), Brad Hoffman (UBC), Greg Korbutt (University of Alberta)	Improve Graft Outcomes	
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SCN 2019-2022 Round 1 Funding Results: *Fueling Biotechnology Partnerships* program

Principal Investigator with Co-Investigators and Collaborators	Project Title	SCN Funds Allocated
Gilbert Bernier , Hôpital Maisonneuve-Rosemont (HMR), Université de Montréal (UMontréal) May Griffith (HMR), Jean-François Bouchard (UMontréal), Stéphane Faubert (St-Hyacinthe Veterinary School), Cynthia Qian (HMR), Flavio Rezende (HMR)	Photoreceptor Transplantation for the Treatment of Retinal Degenerative Diseases	\$500,000
Tim Kieffer , University of British Columbia (UBC) Corinne Hoesli (McGill University), James Piret (UBC), Megan Levings (UBC), Steven Paraskevas (The Research Institute of McGill University Health Centre), Richard Leask (McGill University), Patrick MacDonald (University of Alberta)	A Bioprinted Insulin-Producing Device for Diabetes	\$500,000
Massimiliano Paganelli (CHU-Sainte-Justine, Université de Montréal (UMontréal) Christopher Rose (UMontréal), Michel Lallier (CHU-Sainte-Justine), Constantine Karvellas (University of Alberta), Siofradh McMahon (CCRM)	iPSC-derived Encapsulated Liver Tissue to Treat Acute Liver Failure: Pivotal Confirmation in Large Animals	\$500,000

SCN 2019-2022 Round 1 Funding Results: *Advancing Clinical Trials* program

Principal Investigator with Co-Investigators and Collaborators	Project Title	SCN Funds Allocated
Sandra Cohen , Hôpital Maisonneuve-Rosemont (HMR), Université de Montréal (UMontréal)	UM171-Expanded Cord Blood Grafts Offer Potential Cure for Very	\$1,000,000

<p>Jean-Sébastien Delisle (HMR), Gizelle Popradi (McGill University Hospital Center), Frédéric Barabé (Centre de recherche CHU de Québec-Université Laval), Nadia Bambace (HMR), Léa Bernard (HMR), Guy Sauvageau (UMontréal), Josée Hébert (UMontréal), Filippo Milano (Fred Hutchinson Cancer Research Center), Peter Zandstra (University of British Columbia), Sébastien Lemieux (UMontréal), Gabriel Tremblay (Purple Squirrel Economics), Lambert Busque (HMR), Denis-Claude Roy (HMR)</p>	<p>High-Risk Leukemia Patients</p>	
<p>Lucie Germain, Université Laval (ULaval)</p> <p>François A. Auger (ULaval), Bartha M. Knoppers (McGill University), Richard Bazin (ULaval), Isabelle Brunette (UMontréal), Allan Slomovic (Toronto Western Hospital), Mohib Morcos (McGill University), Michel Ouellet (Patient representative), Charles Giguère (Centre de recherche de l'Institut universitaire en santé mentale de Montréal)</p>	<p>Cultured Epithelial Corneal Autografts for the Treatment of Canadians with Limbal Stem Cell Deficiency</p>	<p>\$500,000</p>
<p>Véronique Moulin, Université Laval (ULaval)</p> <p>François A. Auger (ULaval), Lucie Germain (ULaval), Bartha M. Knoppers (McGill University), Isabelle Perreault (CHU-Sainte-Justine), Sarvesh Logsetty (Winnipeg Burn Unit), Ariane Bussière (Québec Burn Unit), Patricia Bortoluzzi (CHU-Sainte-Justine), Vince Gabriel (Calgary Firefighter Burn Treatment Centre), Duncan Nickerson (Calgary Firefighter Burn Treatment Centre), Sally Hynes (BC Children's Hospital Research Institute), Edward Tredget (Walter C. Mackenzie Health Sciences Centre), Josh Wong (Walter C. Mackenzie Health Sciences Centre), Peter Kwan (Walter C. Mackenzie Health Sciences Centre), Joel Fish (The Hospital for Sick Children), Claudia Malik (Children's Hospital of Eastern Ontario), Marc Jeschke (Sunnybrook Research Institute), Sue-Ling Chang (Patient representative)</p>	<p>Self-Assembly Skin Substitutes (SASS) for the Treatment of Acute Wounds of Canadian Burn Patients</p>	<p>\$470,645</p>
<p>Bernard Thébaud, Ottawa Hospital Research Institute (OHRI), University of Ottawa (UOttawa), Children's Hospital of Eastern Ontario (CHEO)</p>	<p>HULC-I: Helping Underdeveloped Lungs with Mesenchymal</p>	<p>\$638,150</p>

Dean Fergusson (OHRI), Justin Presseau (UOttawa), Kednapa Thavorn (UOttawa), Brigitte Lemyre (CHEO), Mario Ruediger (Technische Universität Dresden), Nadya Ben Fadel (CHEO), Robert Jankov (CHEO), Jana Feberova (CHEO), David Courtman (OHRI)	Stromal Cells – A phase I Trial	
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SCN 2019-2022 Round 1 Funding Results: *Translation and Society* program

Principal Investigator with Co-Investigators and Collaborators	Project Title	SCN Funds Allocated
Bartha M. Knoppers , McGill University Christine Bear (The Hospital for Sick Children), Felix Ratjen (The Hospital for Sick Children), Amy Wong (The Hospital for Sick Children), Paul Eckford (The Hospital for Sick Children), Elizabeth Stephenson (The Hospital for Sick Children), Michael Szego (University of Toronto), Julie Fradette (Université Laval), Mark Rothstein (University of Louisville School of Medicine)	Ethical and Legal Framework for <i>Direct-to-Participant</i> (DTP) Recruitment	\$ 75,000

SCN 2019-2022 Round 1 Funding Results: *Disruptive Research Award*

Principal Investigator with Co-Investigators and Collaborators	Project Title	SCN Funds Allocated
Florian Bentzinger , Université de Sherbrooke (USherbrooke) Eric Marsault (USherbrooke), Penney Gilbert (University of Toronto), Mannix Auger-Messier (USherbrooke), Ubaka Ogbogu (University of Alberta), Jerome Feige (Nestlé Research), Nicolas Dumont (CHU-Sainte-Justine), Alison McGuigan (University of Toronto)	Targeting Endogenous Repair: A Novel Mutation Independent Pharmacological Approach for Treatment of Muscular Dystrophy	\$330,000

SCN 2019-2022 Round 1 Funding Results Summary

Applications Received	Applications Recommended for Funding	Percentage of Successful Applications	Total Investment
37	13	35%	\$6.9 million

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SCN 2018-2019 Funding Results: *Clinical Trials* program

Principal Investigator with Co-Investigators and Collaborators	Project Title	SCN Funds Allocated
<p>Jean Roy, Hôpital Maisonneuve-Rosemont (HMR)</p> <p>Guy Sauvageau (UMontréal), Jean-Sebastien Delisle (HMR), Richard Leblanc (HMR), Sandra Cohen (HMR), Silvy Lachance (HMR), Imran Ahmad (HMR), Émilie Lemieux-Blanchard (CRCHUM), Michael Sebag (MUHC), Sebastien Lemieux (UMontréal), Gabriel Tremblay (Geneconomic)</p>	Allogeneic stem cell transplant using UM171 expanded cord bloods for patients with high-risk multiple myeloma	\$500,000
<p>James Shapiro, U of A</p> <p>Peter Senior (U of A), Peter Light (U of A), Gregory Korbitt (U of A), Eugene Brandon (Viacyte Inc.), Howard Foyt (Viacyte Inc.), Sylvain Bedard (CEPPP), Bart Roep (U Leiden), Joanna Preston (TEC Edmonton), Chris McCabe (U of A)</p>	Pancreatic Progenitor Cell Therapy: Solving Supply and Survival Issues of Islet Cell Transplantation for T1DM	\$500,000
<p>Duncan Stewart, OHRI</p> <p>David Courtman (GMP Facility OHRI), Michael Kutryk (SMH), Chris Glover (UOHI), Hung-Ly Quoc (MHI), Alexander Dick (UOHI), Michel Lemay (UOHI), Kim Connelly (SMH), Howard Leong Poi (SMH), Josep Rodes-Cabau (U Laval), Dominique Joyal (JGH), Vincent Laroche (U Laval)</p>	Enhanced Angiogenic Cell Therapy for Acute Myocardial Infarction (ENACT-AMI)	\$500,000

SCN 2018-2019 Funding Results: *Disease Team* program

Principal Investigator with Co-Investigators and Collaborators	Project Title	SCN Funds Allocated
<p>Gilbert Bernier, Hôpital Maisonneuve-Rosemont (HMR)</p> <p>May Griffith (UMontréal), Jean-Francois Bouchard (UMontréal), Flavio Rezende (HMR), Cynthia Qian (UMontréal), Mario Filion (INRS)</p>	Macula transplantation for the treatment of retinal degenerative diseases	\$200,000
<p>Joanna Matsubara, UBC</p> <p>Marinko Sarunic (SFU), Orson Moritz (UBC), Sean Lumb (UBC), Christopher Laver (UBC)</p>	Treating advanced retinal degeneration – rebuilding multiple co-dependent retinal layers with stem cells	\$100,000
<p>Lauralyn McIntyre, OHRI</p> <p>Shirley Mei (OHRI), Duncan Stewart (OHRI), Dean Fergusson (OHRI), John Marshall (SMH), Keith Walley (UBC), Claudia dos Santos (SMH), Brent Winston (U of C), Shane English (OHRI), Alexis Turgeon (U Laval), Geeta Mehta (U of T), Robert Green (DU), Alison Fox-Robichaud (Hamilton Health Sciences Corporation), Margaret Herridge (UHN), John Granton (U of T), Paul Hebert (CRCHUM), Kednapa Thavorn (OHRI), Timothy Ramsay (OHRI), David Courtman (GMP Facility OHRI), Dana Devine (CBS), Sowmya Viswanathan (UHN)</p>	Cellular Immunotherapy for Septic Shock (CISS2): A Phase II Multicentre Clinical Trial	\$200,000
<p>Freda Miller, The Hospital for Sick Children (HSC)</p> <p>Donald Mabbott (HSC), David Kaplan (HSC), Cindi Morshead (U of T), Jing Wang (OHRI), Ann Yeh (HSC), Douglas Munoz (Queens U), Paul Frankland (HSC), Wolfram Tetzlaff (UBC)</p>	Pharmacological recruitment of endogenous neural precursors to promote pediatric white matter repair	\$200,000
<p>Massimiliano Paganelli, CHU Sainte-Justine</p> <p>Elie Haddad (UMontréal), Christian Beausejour (UMontréal)</p>	Safety and efficacy of stem cell-derived encapsulated liver tissue to treat liver	\$100,000

	failure without immunosuppression	
James Shapiro, U of A Gregory Korbitt (U of A), Joanna Preston (TEC Edmonton), Peter Senior (U of A), Bruce Verchere (UBC)	Development of a novel stem cell-derived transplant modality for type 1 diabetes	\$100,000
Bruce Verchere, UBC Francis Lynn (UBC), Megan Levings (UBC), Tim Kieffer (UBC), Dina Panagiotopoulos (UBC), Brad Hoffman (UBC), Garth Warnock (UBC), Gregory Korbitt (UofA)	Genetic manipulation of hES-derived insulin-producing cells to improve graft outcomes	\$200,000

SCN 2018-2019 Funding Results: *Impact* program

Principal Investigator with Co-Investigators and Collaborators	Project Title	SCN Funds Allocated
Commercialization		
Derrick Rancourt, U of C	Enhancing the Efficiency of Genome Engineering in Human Pluripotent Stem Cells	\$100,000
Peter Zandstra, UBC Fiona Watt (King's College, London, UK), Davide Danovi (King's College, London, UK)	A robust, quantitative, and high-throughput assay to rapidly characterize human induced pluripotent stem cells	\$100,000
Public Policy		
Timothy Caulfield, U of A Amy Zarzeczny (UofR), Barbara von Tigerstrom (UofA), Tania Bubela (SFU), Yann Joly (McGill), Zubin Master (Mayo Clinic), Jeremy Snyder (SFU), Ubaka Ogbogu (UofA)	The Next Step: Specific Strategies for Addressing the Marketing of Unproven Stem Cell Therapies	\$40,000
Bartha Knoppers, McGill	Reforming Canadian Stem Cell Policy: Moving Beyond the Assisted	\$39,736

Rosario Isai (OHRI), Tim Caulfield (UofA), Amy Zarzeczny (UofR), Tania Bubela (SFU), Ubaka Ogbogu (UofA), Vardit Ravitsky (UMontréal)	Human Reproduction Act (AHRA)	
<i>Discovery Translation</i>		
Florian Bentzinger, USherbrooke Eric Marsault (USherbrooke), Mannix Auger-Messier (USherbrooke), Nicolas Dumont (CHU-Sainte-Justine, UMontréal), Frederic Balg (USherbrooke)	Apelinergic Compounds for the treatment of muscular dystrophy	\$99,000
Mick Bhatia, McMaster Rima Al-Awar (OICR)	Identification of kinases and their target substrates in early human PSC specification	\$100,000
Nicolas Dumont, CHU Sainte-Justine, UMontréal Sylvie Girard (UMontréal), Cam-Tu Nguyen (UMontréal), Phillipe Campeau (UMontréal), Christian Beauséjour (UMontréal)	Targeting muscle stem cells to mitigate Duchenne muscular dystrophy	\$100,000
John Hassell, McMaster Rima Al-awar (OICR)	HTR5A as a target for anticancer stem cell drug discovery	\$99,500
<i>Clinical Translation & Accelerator</i>		
Timothy Kieffer, UBC Ali Rezania (Viacyte Inc.)	Assessment of Cell Maturation and Function in Subcutaneous Macroencapsulation Devices in Rodents	\$100,000
Zachary Laksman, UBC Glen Tibbits (SFU)	Using stem cells to test new drugs for atrial fibrillation	\$100,000
Lauralyn McIntyre, OHRI Shirley Mei (OHRI), Duncan Stewart (OHRI), Dean Fergusson (OHRI), John Marshall (SMH), Keith Walley (UBC), Claudia dos Santos (SMH), Brent Winston (U of C), Shane English (OHRI), Alexis Turgeon (U Laval), Geeta Mehta (U of T), Robert Green (DU), Alison Fox-Robichaud (McMaster),	Cellular Immunotherapy for Septic Shock (CISS): A Phase II Multicentre Clinical Trial	\$100,000

Margaret Herridge (U of T), John Granton (U of T), Paul Hebert (CRCHUM), Kednapa Thavorn (OHRI), Timothy Ramsay (OHRI), Sowmya Viswanathan (UHN)		
Bernard Thébaud, OHRI Mervin Yoder (Hospital for Children, Indianapolis), Dylan Burger (U of O)	Endothelial Progenitor Cell-derived Therapies for Neonatal Pulmonary Hypertension	\$99,905
Glen Tibbits, SFU Thomas Claydon (SFU), Zachary Laksman (UBC), Shubhayan Sanatani (UBC)	Developing an hiPSC-CM based protocol to investigate SIDS-implicated sudden cardiac arrest in infants	\$99,500
Eve Tsai, OHRI Xudong Cao (U of O), Ruth Slack (U of O)	Translating an animal endogenous stem/progenitor cell repair strategy for stroke to humans	\$100,000

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SCN 2016-2018 Funding Results: *Clinical Trials* program

Principal Investigator with Co-Investigators and Collaborators	Project Title	SCN Funds Allocated
Harold Atkins, Ottawa Hospital Research Institute (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 (U de M)	Making cord blood hematopoietic stem cell expansion competitive	\$999,968

<p>Timothy Kieffer, UBC</p> <p>David Thompson (UBC), Garth Warnock (UBC), Graydon Meneilly (UBC), Megan Levings (UBC)</p>	<p>A stem cell therapy for insulin replacement in patients with diabetes</p>	<p>\$500,000</p>
<p>Lauralyn McIntyre, OHRI</p> <p>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)</p>	<p>Cellular immunotherapy for septic shock (CISS): A phase II multicenter clinical trial</p>	<p>\$1,000,000</p>
<p>James Shapiro, U of A</p> <p>Peter Senior (U of A)</p>	<p>Clinical trials in stem cell transplantation - solving the supply and the survival problem in Type 1 diabetes</p>	<p>\$499,596</p>
<p>Duncan Stewart, OHRI</p> <p>David Courtman (OHRI)</p>	<p>Enhanced angiogenic Cell Therapy in Acute Myocardial Infarction (ENACT-AMI)</p>	<p>\$999,546</p>

SCN 2016-2018 Funding Results: *Disease Team* program

Principal Investigator with Co-Investigators and Collaborators	Project Title	SCN Funds Allocated
<p>Timothy Kieffer, UBC</p> <p>James Johnson (UBC), Francis Lynn (UBC), Brad Hoffman (UBC)</p>	<p>Optimizing stem cell derived beta-cell therapy for diabetes</p>	<p>\$500,000</p>
<p>Anne Marinier, U de M</p> <p>Guy Sauvageau (U de M), Connie Eaves (UBC), Keith Humphries (UBC)</p>	<p>Development of hematopoietic stem cell expanding molecules towards the ideal transplant</p>	<p>\$500,000</p>

<p>Freda Miller, The Hospital for Sick Children (HSC)</p> <p>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)</p>	Pharmacological recruitments of endogenous neural precursors to promote pediatric white matter repair	\$500,000
<p>Andras Nagy, Lunenfeld-Tanenbaum Research Inst.</p> <p>Armand Keating (UHN), Mohit Kapoor (UHN), Sowmya Viswanathan (UHN)</p>	Combining gene and mesenchymal stromal cell therapies: steps toward curing arthritis	\$394,623
<p>Massimiliano Paganelli, CHU Sainte-Justine</p>	Treatment of chronic liver failure by stem cell-derived mature liver tissue	\$199,982
<p>James Shapiro, U of A</p> <p>Gregory Korbitt (U of A)</p>	Development of a novel stem cell-derived transplant modality for type 1 diabetes	\$496,905
<p>Vahab Soleimani, Jewish General Hospital</p> <p>Colin Crist (McGill), Simon Tran (McGill), Faleh Tamimi Marino (McGill), Hamed S. Najafabadi (McGill)</p>	Interfering niche-related reprogramming of stem cells during aging	\$200,000
<p>Bruce Verchere (UBC)</p> <p>Francis Lynn (UBC), Timothy Kieffer (UBC), Megan Levings (UBC)</p>	Genetic manipulation of hESC-derived insulin-producing cells to improve graft outcomes	\$490,000

SCN 2016-2018 Funding Results: *Impact Research* program

Principal Investigator with Co-Investigators and Collaborators	Project Title	SCN Funds Allocated
<i>Clinical Translation</i>		
<p>Liam Brunham, UBC</p> <p>Glen Tibbits (SFU)</p>	Using human pluripotent stem cell-derived cardiomyocytes	\$100,000

	to investigate the mechanisms of ibrutinib-induced atrial fibrillation	
Colin Crist, Jewish General Hospital Jean-Philip Lumb (McGill)	Activation of muscle stem cells by pharmacological inhibitors of eIF2a phosphorylation	\$99,842
Lucie Germain, Laval U Bartha Knoppers (McGill)	Treatment of patients with corneal limbal stem cell deficiencies using cultured epithelial corneal autografts	\$100,000
James D. Johnson, UBC	Imaged-based screening to enhance insulin production in human embryonic stem cells	\$100,000
Timothy J. Kieffer, UBC	Biodistribution of differentiated stem cells following subcutaneous transplant	\$100,000
Megan Levings, UBC Lori West (U of A)	Garbage to gold: expansion of therapeutic regulatory t-cells from discarded thymus	\$100,000
Kelly McNagny, UBC	CAR-T cell therapy targeting tumor-specific modifications of podocalyxin in triple negative breast cancer	\$100,000
Sowmya Viswanathan, UHN Paula Foster (UWO), Mohit Kapoor (UHN)	Iron labeled-mesenchymal stromal cells for clinical tracking in amended phase 1 trial in osteoarthritis patients	\$100,000
Peter Zandstra, U of T	Clinical culture optimization to	\$100,000

Guy Sauvageau (U de M), Julie Audet (U of T)	maximize cord blood derived hematopoietic stem cell expansion osteoarthritis patients	
Public Policy		
Timothy Caulfield, U of A Amy Zarzeczny (U of R)	Stem cells and misleading marketing claims	\$50,000
Judy Illes, UBC	Decision-making in translation: urgency, access, and evaluation in off-label stem cell interventions	\$50,000
Ubaka Ogbogu, U of A Amy Zarzeczny (U of R)	Regulating the future: model policies for emerging stem cell research activities, including research on gene-edited and reconstituted embryos	\$50,000
Commercialization		
Kristin Hope, McMaster	Methods and compositions for expansion of human hematopoietic stem and progenitor cells	\$100,000
Joanne Matsubara, UBC Marinko Sarunic (SFU)	Treating advanced retinal degeneration - rebuilding multiple co-dependent retinal layers with a single injection of stem-cell-derived-graft	\$99,502
Ian Rogers, Lunenfeld-Tanenbaum Research Institute	Improving efficacy and economics of kidney disease therapies using iPS cells	\$90,811
Mark Ungrin, U of C	Scalable production of engineered micro tissues	\$100,000

Stephanie Willerth, U of V	3D bioprinting of neural tissue from human pluripotent stem cells	\$100,000

* Project titles posted as per the language of submission

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