

Curriculum Vitae Paul Leslie Beck

I. BIOGRAPHICAL DATA

Professor of Medicine
Department of Medicine, University of Calgary
Faculty of Medicine

Academic Address

Dept Medicine, Foothills Hospital
Room HSC 1865, 3330 Hospital Drive NW, Calgary, AB, T2N 4N1,
(403) 220-8389, (403) 875-0357 (cell), Email: plbeck@ucalgary.ca

Date of Birth: March 7, 1961
Place of Birth: Beaumont, Texas, USA
Citizenship: Canadian/American (Dual)

II. ACADEMIC RECORD

- 1996-99** Research Fellowship, With Dr DK Podolsky, Massachusetts, General Hospital, Harvard University, Boston MA.
- 1994-96** Fellowship in Gastroenterology, University of Calgary.
- 1991-94** Residency in Internal Medicine, University of Calgary.
- 1990-91** Rotating Internship, Calgary General Hospital, Calgary, Alberta.
- 1987-90** M.D., University of Calgary, Calgary, Alberta.
- 1984-87** Ph.D. biology, Queen's University, Kingston, Ontario. Thesis title; *Studies on the Pathology and Pathogenesis of Acute and Chronic Ulceration and Inflammation of the Gastrointestinal Tract*. Supervisor: Dr. G.P. Morris.
- 1981-84** B.Sc. (Honors) biology, Queen's University, Kingston, Ontario. Thesis title; *An Immunohistochemical Study of Chronic Ulcers*. Supervisor: Dr. G.P. Morris.

Summary of Recent Highlights *(See details in following sections)*

Dr Beck currently has 202 publications, 18368 citations with an H-index of 64.

Awards

- Awarded as co-founder of Arch Biopartners. \$6.7 million from the department of Innovation, Science and Economic Development (ISED) to support the Phase II development of Metablok (LSALT Peptide), the Company's therapeutic drug candidate to prevent organ inflammation and injury in patients hospitalized with COVID-19. Government of Canada. December 15, 2020.
- Awarded a Tier 1 Canada Research Chair in Precision Medicine (2020-26)
- Awarded the Faculty of Graduate Studies, GREAT Supervisor Award, University of Calgary (2015).
- Awarded the Killam Professorship, University of Calgary, for overall excellence, 2015
- Awarded the Canadian Association of Gastroenterology Research Excellence Award, 2015
- Awarded the University of Calgary Alumni of Distinction, Awarded for Excellence in Mentoring, 2014.
- Awarded the Great Teacher Award, February 2014 by the Medical School Class of 2015
- Awarded the Alberta Society of Gastroenterology Distinguished Research Award, 2013.
- Awarded the Citation Classic Award, University of Calgary for a single paper being cited over 1000 times.
- Awarded the Canadian Association of Gastroenterology Visiting Research Professor Award for 2013.
- Awarded the van de Sande Distinguished Achievement Award for Mentoring, Department of Medicine, University of Calgary, 2012.
- Awarded the International Research Mentor Award, American Gastroenterology Association Institute Council Immunology, Microbiology and Inflammatory Bowel Disease Section, 2012.
- Awarded the Watanabe Distinguished Achievement Award for overall excellence. This is one of the highest awards given out by the University of Calgary, Faculty of Medicine, 2011.
- Awarded the Outstanding Achievement Award for the individual that has contributed the most to the Division of Gastroenterology at the University of Calgary 2011.
- Awarded the Outstanding Clinician Award at the Foothills Hospital 2011.

Recent Grants

- 2010-17** Alberta Heritage Foundation for Medical Research, Clinical Senior Scholar, 1,135,000.00.
- 2014-19** CIHR Team Grant. A Multidisciplinary Approach To Target Chronic Inflammation Of The Gut, Liver And Joint. \$2,443,500 over 5 years. **PL Beck Lead PI**
- 2014-19** CIHR Team Grant. Nod-like receptors: linking innate immunity and inflammation to chronic disease. \$2,441,137 over 5 years.
- 2016-21** CIHR SPOR Grant GI, SPOR IMAGINE, \$12.45 million over 5 years with leveraged funding from industry for a total of **\$36 million over 5 years**. Lead PI; Paul Moayyedi; **PL Beck co-PI**.
- 2016-20** CIHR Project Grant. Fecal microbial transplantation in the management of patients with mild-to-moderate Crohn's disease. \$638,356.00 over 4 years. **PL Beck co-PI**.
- 2017-22** **CIHR Project Grant**. Protease-activated receptor (PAR)-2: A novel effector of mucosal healing in inflammatory bowel diseases \$1,305,000.00 **PL Beck co-PI**.
- 2018-2022** The W. Garfield Weston Foundation, *A clinical trial to evaluate the Safety and Efficacy of Fecal Microbiota Transplantation in a Population with Major Depressive Disorder*. \$150,000. **PL Beck co-PI**
- 2019** CIHR Team Grant Human Immunology Initiative, Reducing Morbidity and Mortality in Inflammatory Bowel Disease by Targeting Intestinal Fibrosis, \$20,000 operating grant for being selected at LOI stage. **PL Beck PI**
- 2019-22** CIHR IMAGINE SPOR Incubator Grant, A clinical trial to evaluate the safety and efficacy of Fecal Microbial Transplantation in a populations with Major Depressive Disorder and Irritable Bowel Syndrome. \$73,600. **PL Beck co-PI**
- 2020-27** **Awarded Tier 1 Canadian Research Chair in Precision Medicine, Reducing Morbidity and Mortality in Inflammatory Bowel Disease by Targeting Intestinal Fibrosis. ~1.4 million over 7 years.**

Publications; 103 publications since 2010 including; A recent review found that one of Dr Beck's articles was in top 100 most cited papers (#33) in the history of publications in the area of inflammatory bowel disease (see PMID 31096525 for details). Papers in; Science, Nature Medicine, JCI, JAMA and Nature Genetics! 5 papers in the top journal in gastroenterology; Gastroenterology and many others in moderate to high levels journals

Awards

- 2020** Awarded as co-founder of Arch Biopartners. \$6.7 million from the department of Innovation, Science and Economic Development (ISED) to support the Phase II development of Metablok (LSALT Peptide), the Company's therapeutic drug candidate to prevent organ inflammation and injury in patients hospitalized with COVID-19. Government of Canada. December 15, 2021.
- 2020** Canadian Research Tier 1 Chair
- 2016** Awarded the Overall Excellence in Teaching Award, the Gastroenterology Fellowship Program, University of Calgary.
- 2015** Awarded the Killam Annual Professorship. Killam Annual Professors are selected for demonstrating excellence in research and teaching for 10 years or more, while serving their academic discipline and their community outside the university, University of Calgary and Killam Foundation.
- 2015** Awarded the Faculty of Graduate Studies, My Supervisor Skills, GREAT Supervisor Award, University of Calgary.
- 2015** Awarded with the Top Clinical Teacher in the Gastroenterology Fellowship Program, University of Calgary.
- 2015** Awarded the Canadian Association of Gastroenterology Research Excellence Award, 2015.
- 2014** University of Calgary Medical School Alumni of Distinction Award for Mentorship.
- 2014** Awarded the Great Teacher Award in 2014 by the Medical School Class of 2015. For teaching excellence.
- 2013** Awarded the 2013AARP Merit Award. This is awarded to two members of each Division who had made especially significant contributions in areas of clinical care, research, education, innovation, and/or administration, University of Calgary.
- 2013** Alberta Society of Gastroenterology Distinguished Research Award, ASG Meet June 2013.
- 2013** Division of Gastroenterology Research Mentor Award, University of Calgary, chosen by the gastroenterology trainees.
- 2013** Awarded the Citation Classic Award, University of Calgary for a single paper being cited over 1000 times.

- 2013** Awarded the Canadian Association of Gastroenterology Visiting Research Professor Award for 2013. This Award is given out annually and involves travelling through Canada to present my research.
- 2010-13** Department of Medicine Merit Award, Award for Overall Excellence (yearly x4).
- 2012** Awarded the van de Sande Distinguished Achievement Award for Mentoring, Department of Medicine, University of Calgary.
- 2012** Awarded the 2011 AARP Merit Award. This is awarded to two members of each Division who had made especially significant contributions in areas of clinical care, research, education, innovation, and/or administration, University of Calgary.
- 2012** Overall Excellence in Teaching Award for Gastroenterology Fellowship Program, University of Calgary, awarded by the graduating fellows in gastroenterology.
- 2012** International Research Mentor Award, American Gastroenterology Association Institute Council Immunology, Microbiology and Inflammatory Bowel Disease Section. Awarded to one mentor throughout the world that is involved in training GI clinical and/or basic science trainees, this award is given on a yearly basis.
- 2011** Awarded the Watanabe Distinguished Achievement Award for overall excellence. This is one of the highest awards given out by the University of Calgary, Faculty of Medicine.
- 2011** Nominated for the Alumnus of Distinction Award, Faculty of Medicine University of Calgary, 2011.
- 2011** Awarded the Outstanding Clinician at the Foothill Medical Center, University of Calgary.
- 2011** Awarded the Outstanding Achievement Award for the individual that has contributed the most to the Division of Gastroenterology at the University of Calgary for clinical excellence, research success and teaching.
- 2010** Nominated for the Dr. John Dawson Award, given out yearly to the top clinician in the Department of Medicine at the Foothill Medical Center, University of Calgary.
- 2010** Awarded the Deans Mentorship Award for having a student publish a paper in a high impact journal (>10), Mr Jeff Ng and Dr Simon Hirota, for a Gastroenterology manuscript.
- 2009** Awarded the Silver Tongue Award, Department of Internal Medicine, University of Calgary. Awarded for excellence in residency teaching.

- 2009** Nominated for the Top Clinician at the Foothill Medical Center, University of Calgary. Nominated by both Internal Medicine Division and by the Gastroenterology Division.
- 2009** Associate Dean's Letter of Excellence for Teaching in the Undergraduate Medical Education Program (Course 1).
- 2008** Nominated for the Watanabe Distinguished Achievement Award, Faculty of Medicine, University of Calgary. This nomination places Dr Beck in the top five percent of the members of the Faculty of Medicine.
- 2007** Awarded the teaching award "Excellence in Endoscopy Teaching" by the Division of Gastroenterology, GI Fellowship Program.
- 2006** Awarded a Letter of Excellence in Teaching by the University of Calgary Medical Student Association (CMSA).
- 2005** Awarded The Research Preceptor of the Year, Department of Medicine, University of Calgary.
- 2005** Awarded a Letter of Excellence in Teaching by the University of Calgary Medical Student Association (CMSA).
- 2004** Awarded a Letter of Excellence in Teaching by the University of Calgary Medical Student Association (CMSA).
- 2002** Selected to be included on the Great Teacher's Web Site, University of Calgary.
<http://greatteachers.ucalgary.ca/>
- 2002** Nominated for Professional Association of Resident of Alberta (PARA) Residents Well Being Award.
- 2001-02** Awarded Teacher of the year by the Alberta Gastroenterology Association
June 2002
- 2000** Calgary Medical Student Association Letter of Excellence for Teaching, Gastrointestinal Course, University of Calgary.
- 99-2002** Medical Research Council of Canada, Clinician-Scientist Award.
- 1997-99** National Institute of Health Training Grant, Center of Study of Inflammatory Bowel Disease, Massachusetts General Hospital.

- 1996** North American Gastroenterology Fellows Abstract Competition. Awarded/abstracts selected by a board of reviewers in association with the American Gastroenterology Association.
- 1995** North American Gastroenterology Fellows Abstract Competition. Awarded/abstracts selected by a board of reviewers in association with the American Gastroenterology Association.
- 1995** Consults in Gastroenterology: A National Case Study Competition for Fellows and Residents in Gastroenterology. Awarded by the Canadian Association of Gastroenterology.
- 1993** Canadian Research Award for Specialty Residents in the Division of Medicine. Awarded by The Royal College of Physicians and Surgeons of Canada.
- 1987** Nominated for the Queen's University, Arts and Science Undergraduate Society Teaching Excellence Award.
- 1987** Canadian Association of Gastroenterology Student Research Prize. At The Royal College of Physicians and Surgeons of Canada Meeting, Winnipeg MB.

IV. ACADEMIC APPOINTMENTS

- 2017** Sabbatical, Visiting Scientist, Massachusetts General Hospital and Broad Foundation, Boston, MA.
- 2012 - present** Full Professor, Division of Gastroenterology, Department of Medicine, University of Calgary.
- 2005-11** Associate Professor, Division of Gastroenterology, Department of Medicine, University of Calgary.
- 2007-17** Director of the MD/PhD Program, University of Calgary, Dept. of Medicine.
- 2009** Director of Basic Science Research, Division of Gastroenterology, University of Calgary.
- 2005-11** Associate Professor, Division of Gastroenterology, Department of Medicine, University of Calgary.
- 2005-2006** Program Director for the Graduate Program in Gastrointestinal Sciences, University of Calgary.

2003-2016	Unit Director for Gastrointestinal Course, University of Calgary Medical School.
2001-2007	Director of Research for the Internal Medicine Residency Program, University of Calgary.
2004-2008	Director of Research for the Gastroenterology Fellowship Program, University of Calgary.
1999-2008	Graduate Education Committee, Division of Gastroenterology, University of Calgary
1999-2004	Assistant Professor, University of Calgary, Dept of Medicine, Division of Gastroenterology, Foothills Hospital
1996-1999	Harvard University Medical School, Boston, Mass., Center for Study of Inflammatory Bowel Disease.
1996-1999	Massachusetts General Hospital, Boston, Mass., Center for Study of Inflammatory Bowel Disease.

V. EDUCATION ACTIVITIES

- **Involved in teaching and running the new 755 Individualized Medicine course.** Graduate level course. Chair; Morley Hollenberg. Jan- March 2021.
- **Past director of MD-PhD, Leaders in Medicine Program.**
- Develop/run seminar series for MD-PhD, Leaders in Medicine Program.
- **Part of the Organizing/Executive Committee, Clinical Investigators Program (CIP), Royal College Program that combines Clinical Training and Research Training.**
- University of Calgary, Gastrointestinal Course, MDCN 350 - Integrated GI/Blood/Fever & Sore lecturer and small group teaching (4 hours lectures, 12 hours small group/clinical core).
- University of Calgary, MDSC639 (IMM6/7) Clinical Correlates of Inflammatory Diseases (3 h teaching).
- University of Calgary, MDSC638 - Mucosal Pathophysiology (3 hours teaching).
- GI Course, MDSC 637.01, Graduate School Course GI Physiology
- Unit Chair of Medical School Gastroenterology/Blood Course (diarrhea absorption unit).
- Clinical Teaching: GI fellows, Internal Medicine Residents, Medical Students.
- Chair of the Shaffer Research Day 2001-2014.
- Research Topics in GI Disease, Canadian Digestive Disease Week. Small group, 2 day National Symposium for GI Research Trainees. Montreal February, 2012. Course Staff.
- Symposium Chair Canadian Digestive Disease Week, Resolution of Inflammation: Towards Better Therapies for Inflammatory Diseases, 2012.
- Director of Internal Medicine Resident Research Program for 5 years
- Directors of Gastroenterology Resident research Program for 3 years

Graduate Supervisory Committee Member/Examiner for:

Turesin, Fusun - Cand. Oral Member, MDSC PhD 2004
Warrier, Nirmala - Thesis Oral Member, MDSC MSc 2004
Swaminathan, Sunita, Thesis Oral Chair, MDGI MSc 2004
Wu, Theresa, Sup. Committee Member, MDSC MSc 2005
Martin, Gary - Sup. Committee Member, MDGI PhD 2005
Zhou, Feng - Sup. Committee Member, MDGI MsSc2005
Swaminathan, Sunita – Main Supervisor, MDGI MSc 2002-4
Jason Fedwick - Post Doctorate fellow in my lab. 2005-2007
Kyla Fines- undergraduate student in my lab.2005
Jillian Carey Committee Member, MDSC MSc 2006
Duncan Maccannell, PhD 2006
Andrew Polukoshko MDSC MSc 2004
Elaine Chow MDSC Sup. Committee Member, MSc 2006
Colin Reardon PhD 2007
Humberto Jijon- Post Doctorate fellow in my lab. 2005-2012
Ken Parhar, part-time internal medicine resident--post doctoral student in my lab 2008-9
Andrew Flynn, part-time MD-post doctoral student in my lab 2008-11
Simon Hirota Post Doc 2008-12
Jeffry Ng MSc Student 2008-10
Alexandra Valderrrama Sup. Committee Member, MDSC MSc 2008-9
Misha Bawa Committee Member PhD student 2008-2013
Maitham Khajah Committee Member, PhD student 2008-9
Pam O'Connor Committee Member PhD student 2007-10
Michael Peplowski Committee Member PhD student 2008-2015
Braedon MacDonald Committee Member MD-PhD student 2008-11
Vikram Lekhi Mentor MD-MBA student 2008-10
Eric Hyun PhD Committee Member PhD student 2008-9
Josh Lee Committee Member MSc student 2008-11
Vadim Iablokov Committee Member MSc/PhD student 2008-present
Matt Klompus Examination Committee Member MSc student 2009
Charlotte D'Mello PhD Candidacy Examination Committee Member 2010
Gaby Leung MSc Student Committee Member, 2010 - present
Jasmine Bahrami, External PhD Examiner, University of Toronto, Sept 2010
Sarah Tulk MSc Supervisor (co with Dr J MacDonald), 2010 - 2012
Patrick Schenck co-op (McMaster) student supervisor 2010 (CAG award)
Mireille Potentier co-op (U Victoria) student supervisor 2010 (CAG award, AIHS award)
Jennifer Hahn PhD Defense internal-external examiner 2010
Randall Mason PhD Supervisor (co with Dr D. Muruve), 2010 – 2011
Pedro Boasquevisque co-op student my lab 2011
Sarah Belga MD GI research fellow, 2011-12.
Tamia Santodomingo Garzon, PhD Committee, examining committee 2009-12.
Danielle Reid PhD Supervisory Committee 2011 - present
Nathan Bracey PhD student co-supervised by Henry Duff and me 2010 -2014.
Basmah Al-Hassan Msc Student my Lab 2012-present
Hellen Becker Post-doc in my lab 2011-2012

Tanis Dingle PhD Supervisory committee 2010-2012
Pat Schenck MSc student my lab co-supervisor with J MacDonald 2012-2015.
Wagdi Ali Almishri PhD Supervisory committee 2010-2105
Euan Allan PhD Candidacy examiner 2012
External Examiner, PhD, Megan Himmel, University of British Columbia, April 2012.
Sergei Nikitenko, MSc Superviory committee 2012-present.
Anna Schmidt, PhD/MD supervisor 2013- present.
Troy Perry, PhD external examiner, University of Alberta, October, 2014.
Jessica Tjong, MSc Student 2015 – 2018
Timothy Jayme, MSc Supervisor (co-supervise with Dr D. McKay) 2015-2018
Hao Tang, PhD Supervisor (co-supervise with Dr D. McKay) 2016-18
Jason Bau MD/PhD supervisor 2014 – 2017
Steven Sparksman PhD supervisor, 2016 – 2020
Andrew Vegso MSc, committee member 2017 – present
Cody Doolan MSc, committee member 2018 – present
Victoria Armstrong, committee member 2019 – present
Kayla Merrit, external examinal for MSC thesis, May 2020
Ramsa Mahood, supervisor MSC 2018 2021.

Mentor/Supervisor for , LIM students, medical students, GI residents and juniour staff.

VI. ADMINISTRATIVE RESPONSIBILITIES

As above and below

VII. PROFESSIONAL ACTIVITIES

Regional Committees

- Organizing/Administration Committee, Clinical Investigators Program (CIP), Royal College.
- Basic Science Research Director, Division of Gastroenterology, University of Calgary
- Division of Gastroenterology, Executive Committee
- Director of the Intestinal Inflammation Tissue Bank Committee, University of Calgary.
- University of Calgary, Colon Cancer Screening Clinic, Research Committee.
- Alumni Committee, faculty of Medicine, University of Calgary.
- Professional Advisory Board Canadian Celiac Association, Calgary Chapter.

National Committees

2016-20 Lead CIHR Team Grant, A Multidisciplinary Approach To Target Chronic Inflammation Of The Gut, Liver And Joint. \$2,443,500 over 5 years.

2007-22 National lead of capacity building and education. CIHR SPOR Grant GI, SPOR IMAGINE.

2012-14 Executive Committee Canadian Society of Clinical Investigation

2010, 12 Crohn's and Colitis Foundation of Canada Grant Review Committee.

- 2008-11 Canadian Association of Gastroenterology Research/Scientific Committee
- 2008-11 Canadian Association of Gastroenterology/CIHR Granting Committee
- 2007-present GEM Project Crohn's and Colitis Foundation of Canada, Steering Committee.
- 2005-7 Crohn's and Colitis Foundation of Canada Granting Committee.
- 2002-5 Canadian Institute of Health Research, HPA Grant review Committee.
- 2002-3 Crohn's and Colitis Foundation of Canada Granting Committee.

Grant/Journal Reviewer;

Grant Reviewer for;

Crohn's and Colitis Foundation of Canada, Canadian Institute of Health Research, Alberta Heritage Foundation for Medical Research, Dairy Farmers of Canada, Nutrition Research Funding Program, Burroughs Wellcome Fund, Broad Medical Research Program, IBD Research Granting Foundation, International Science and Technology Partnerships, Canadian Association of Gastroenterology/CIHR Partnership Program

Journal Reviewer for;

Gastroenterology, Clinical Journal of Gastroenterology and Hepatology, Gut, Hepatology, American Journal of Physiology, Alimentary Pharmacology and Therapeutics, American Journal of Gastroenterology, Canadian Journal of Gastroenterology, Nutrition, Cancer Research, J Immunology, Sports Medicine, Endoscopy, J Endocrinology, Nature Gastroenterology, Journal of Cellular and Molecular Medicine.

Associate Special Editor;

Canadian Journal of Gastroenterology 2014-16

Abstract Reviewer for the Annual American Gastroenterology Association Meeting, Digestive Disease week, 2008 - 2017.

VIII. RESEARCH SUPPORT

- 1996-98** Alberta Heritage Foundation for Medical Research Clinical Fellowship Award.
- 1997-99** National Institute of Health Training Grant, Center of Study of Inflammatory Bowel Disease, Massachusetts General Hospital.
- 96-2002** Medical Research Council of Canada, Clinician-Scientist Award.
- 1997-99** National Institute of Health Training Grant, Center of Study of Inflammatory Bowel Disease, Massachusetts General Hospital.
- 1999-02** Alberta Heritage Foundation for Medical Research Clinical Investigator Award

225,000 over three years. Renewal Applied for 2002-2005.

- 2000** Alberta Innovation and Science Research Excellence Envelope Award, 15,000 for equipment support
- 2001-4** IIPP Grant, Gene Therapy Initiative, Alberta Innovation and Science, as a member of the Libin Gene Therapy Unit, Dr N.C.W. Wong Director.
- 2001-4** Canadian Institute of Health Research Operating Grant. 270,600 over three years. “The Role of Nitric Oxide Synthase Isoforms in Inflammatory Bowel Disease and Intestinal Homeostasis”.
- 2001-02** University of Calgary, Faculty of Medicine Endowment Award, The Role of TGF β in Intestinal Epithelial Function in Health and Disease. 20,000.
- 2001-02** University of Calgary, Faculty of Medicine Endowment Award, The role of intestinal Permeability in Congestive Heart Failure. 20,873. Co-awarded to Dr Beck PL and Dr J Meddings.
- 2002-07** Protease activated receptors in Inflammation Group Grant, University of Calgary. Dr JL Wallace, Dr M. Hollenberg, Dr N Vergnolle, Dr Beck PL. CIHR Group Grant Competition. 2002 Successful my share 44,000 operating funds x 5 years.
- 2002-05** Alberta Heritage Foundation for Medical Research Clinical Investigator Award, Renewal. Salary Support.
- 2002-07** Canadian Institute of Health Research New Investigator, 5-year term, salary support.
- 2005-10** Alberta Heritage Foundation for Medical Research, Scholar, 5-year term, salary support.
- 2005-08** Crohn’s and Colitis Foundation of Canada, Operating Grant. Assessment of the Role of Fas and Fas Ligand in Intestinal Homeostasis and Inflammation. 100,000.00 per year x 3 years.
- 2007-13** Crohn’s and Colitis Foundation of Canada, Genetics, Environmental and Microbial (GEM) project. A multicenter national group grant. Member of steering committee. 5,500,000.00 over 6 years.
- 2008-09** Calgary Celiac Association. Assessment of Chemokines and Chemokine Receptors in Celiac Disease. 19,500.00
- 2009-10** Amgen Industry Collaborative Grant. Assessing the Impact of anti-PAR₂ Antibodies in Colitis. 89,500.00

- 2009-14** Canadian Institute of Health Research Operating Grant. Hypoxia-inducible factor-1 (HIF-1) plays an innate protective role in Clostridium difficile-induced colitis 5-year term \$707917.00 over 5 years.
- 2009-14** Alberta Heritage Foundation for Medical Research, Interdisciplinary Team Grant. Etiology of Inflammatory Bowel Disease: Gene, Microbe & Environment Interactions. \$5,000,000.00 over 5 years. Role; team member will be involved in translational and pure basic science studies.
- 2009-11** Alberta Heritage Foundation for Medical Research, Postdoctoral Fellowship Awarded to Dr Simon Hirota in my Lab, 120,000.
- 2009-12** Canadian Institute of Health Research, Postdoctoral Fellowship Awarded to Dr Simon Hirota in my Lab, 130,000.
- 2010-12** Heart and Stroke Foundation, Alberta, Calcineurin induced heart failure and the inflammasome, 100,000.
- 2010-17** Alberta Heritage Foundation for Medical Research, Clinical Senior Scholar, Innate Immune Responses in Clostridium Difficile Toxin-induced Intestinal Injury, 1,135,000.00.
- 2010-13** Crohn's and Colitis Foundation of Canada, Operating Grant. The NLRP3-inflammasome is a key regulator of intestinal homeostasis. 364,500.00 over three years.
- 2013-15** Crohn's and Colitis Foundation of Canada and Vertex, Operating Grant. Aberrant dendritic cell and T cell function driven by IBD associated genetic mutations. Principal investigator S. Ghosh, co-investigators; P. Beck, G. Kaplan, B. Eksteen. 200,000.00 over 2 years.
- 2014-16** Alberta Health Services, Operating Grant. Program of Innovation using Fecal Microbial Transplant (FMT) in the treatment of recurrent Clostridium difficile infection (CDI), Capsule versus Colonoscopy Delivered FMT. Principal Investigator; Dina Kao, co-principle investigators; PL Beck, T Louie, K Madsen, A. Mason. 500,000.00 over 2 years.
- 2014-19** CIHR Team Grant. A Multidisciplinary Approach To Target Chronic Inflammation Of The Gut, Liver And Joint. \$2,443,500 over 5 years. PI
- 2014-19** CIHR Team Grant. Nod-like receptors: linking innate immunity and inflammation to chronic disease. \$2,441,137 over 5 years. Co-PI

- 2014-17** Crohn's and Colitis Canada. Protease-activated receptor 2 reduces apoptosis and induces COX-2 to mediate the resolution of inflammation. Co-investigator with Dr W. MacNaughton. 371,460.00 over 3 years.
- 2014-17** Crohn's and Colitis Canada. Mechanisms of microbiota microfilm disruptions causing post-infectious flare-ups in IBD: The path towards a new therapy for Inflammatory Bowel Disease. Co-investigator with Dr A. Buret. \$371,460 over 3 years.
- 2016-22** CIHR SPOR Grant GI, SPOR IMAGINE, \$12.45 million over 5 years with leveraged funding from industry for a total of **\$36 million over 5 years**. Lead PI; Paul Moayyedi; **PL Beck co-PI**.
- 2016-20** CIHR Project Grant. Fecal microbial transplantation in the management of patients with mild-to-moderate Crohn's disease. \$638,356.00 over 4 years. (Co-Investigator).
- 2017-22** CIHR Project Grant. Protease-activated receptor (PAR)-2: A novel effector of mucosal healing in inflammatory bowel diseases \$1,305,000.00 **PL Beck co-PI**.
- 2018-2022** The W. Garfield Weston Foundation, Weston Family Microbiome Initiative. A clinical trial to evaluate the Safety and Efficacy of Fecal Microbiota Transplantation in a Population with Major Depressive Disorder. Taylor VH, Beck PL, Jijon H, McCoy K, MacQueen G. \$150,000. **PL Beck co-PI**
- 2019** CIHR Team Grant Human Immunology Initiative, Reducing Morbidity and Mortality in Inflammatory Bowel Disease by Targeting Intestinal Fibrosis, \$20,000 operating grant for being selected at LOI stage. **PL Beck PI**
- 2019-22** CIHR IMAGINE SPOR Incubator Grant, A clinical trial to evaluate the safety and efficacy of Fecal Microbial Transplantation in a populations with Major Depressive Disorder and Irritable Bowel Syndrome. Taylor VH, Beck PL, Jijon H, McCoy K, MacQueen G. \$73,600. **PL Beck co-PI**
- 2020-27** Canadian Research Tier 1 Chair in Precision Therapeutics. Reducing Morbidity and mortality in Inflammatory Bowel Disease by Targeting Intestinal Fibrosis. \$1,400,000 over 7 years. **PL Beck PI**
- 2021-23** Awarded as co-founder of Arch Biopartners. \$6.7 million from the department of Innovation, Science and Economic Development (ISED) to support the Phase II development of Metablok (LSALT Peptide), the Company's therapeutic drug candidate to prevent organ inflammation and injury in patients hospitalized with COVID-19. Government of Canada. December 15, 2020. **PL Beck, cofounder of Arch Biopartners.**

IX. INVITED PRESENTATIONS

Annual Meeting of the Royal College of Physicians and Surgeons of Canada; **Beck PL**, Morris GP, Wallace JL. Mast cell stabilizers inhibit both ethanol-induced gastric damage and leukotriene synthesis. 1987.

Annual Meeting of the Royal College of Physicians and Surgeons of Canada; Canadian Research Award for Specialty Residents in the Division of Medicine. Awarded by The Royal College of Physicians and Surgeons of Canada, Vancouver, 1993.

Annual Meeting of the American Gastroenterology Association; **Beck PL**, Lee SS, Wallace JL. Chronic treatment with a PGE1 analog reduces the extent of hepatic and gastric damage in an animal model of cirrhosis. Florida, 1995.

North American Conference of Gastroenterology Fellows. **Beck PL**, Swain MG, Ishii T, Zhang CL, Urbanski SJ, Kossakowska AE. IL-1 β involvement in the response of hypothalamic-pituitary-adrenal axis and immune system to cholestasis. Florida, 1996.

Annual Meeting of the Canadian Gastroenterology Association; **Beck PL**, MG Swain, Urbanski SJ, Kossakowska AE. IL-1 β , IL-6 and TNF α involvement in the response of hypothalamic-pituitary-adrenal axis and immune system to cholestasis. 1996.

Annual Meeting of the American Gastroenterology Association; **Beck PL**, Hilsden R, Meddings J, Lee SS. Sucrose permeability can detect portal hypertensive gastropathy in cirrhotic rats. 1997.

Annual Meeting of the American Gastroenterology Association; Xavier RJ, **Beck PL**, Naifang Lu, Podolsky DK, Seed B. Mice with decreased E-, P and L-selectin ligand biosynthesis are more resistant to dextran sodium sulfate-induced colitis but have more severe TNBS colitis. 1998.

Annual Meeting of the American Gastroenterology Association; Itoh H, **Beck PL**, Rosenberg IM, Podolsky DK. Targeted transgenic ablation of goblet cells: paradoxical reduction in susceptibility to dextran sodium sulfate- and acetic acid-induced experimental colitis. 1998.

Annual Meeting of the American Gastroenterology Association; **Beck PL**, Brandwein SL, Comiskey M, Terhorst C, Podolsky DK. Synergistic interactions between epithelial and immune defects in the development of experimental colitis. 1999.

Annual Meeting of the American Gastroenterology Association; Itoh H, **Beck PL**, Rosenberg IM, Podolsky DK. Targeted transgenic ablation of goblet cells: paradoxical reduction in susceptibility to dextran sodium sulfate- and acetic acid-induced experimental colitis. 1998.

International Meeting On Radiation-induced Injury, Rotterdam, 1998.

Annual Meeting of the American Gastroenterology Association, 1999. Beck PL, Xavier RJ, Naifang Lu, Podolsky DK, Seed B. Targeted disruption of E-, P and L-selectin ligand biosynthesis is associated with a decrease in susceptibility to indomethacin-induced intestinal damage.

Annual Meeting of the American Gastroenterology Association, 1999. Beck PL, Brandwein SL, Comiskey M, Terhorst C, Podolsky DK. Synergistic interactions between epithelial and immune defects in the development of experimental colitis.

Annual Meeting of the American Gastroenterology Association, 1999. Beck PL, Podolsky DK. Intestinal trefoil factor reduces the severity of chemotherapy and radiotherapy-induced intestinal mucositis.

Annual Meeting of the American Gastroenterology Association, 1999. Beck PL, Xavier R, Ezedi I, Mizoguchi E, Mashimo H, Bhan AK, Podolsky DK, Paradoxical roles of different nitric oxide synthase isoforms in colonic injury.

Center of Study of Inflammatory Bowel Disease Meeting, Massachusetts General Hospital Boston, 1999.

Canadian Association for the Study of Liver Disease, Kananaskis, Alberta, 1999. Portal Hypertensive Gastropathy,

Annual Meeting of the American Gastroenterology Association, 2000. Beck PL, Rosenberg IM, Xavier RJ, Podolsky DK. Intestinal Epithelial Cell Expression of TGF β Dominant Negative Receptor II (DNRII) Results in Decreased Wound Healing *in vitro* and Increased Susceptibility to Colonic Injury *in vivo*.

Annual Meeting of the American Gastroenterology Association, 2000. Beck PL, Xavier R, Ezedi I, Mizoguchi E, Mizoguchi A, Bhan AK, Podolsky DK. Targeted Disruption of Fucosyltransferase VII (FTVII) Significantly Attenuates Dextran Sodium Sulfate (DSS)-Induced Colitis in Intestinal Trefoil (ITF) Deficient Mice.

Annual Meeting of the American Gastroenterology Association, 2000. Andres PG, Beck PL, Mizoguchi E, Mizoguchi A, Bhan AK, Dawson T, Kuziel WA, Maeda N, MacDermott RP, Podolsky DK, Reinecker HC. Mice with a Selective Deletion of the Chemokine Receptors CCR5 or CCR2 Are Protected from Dss-Mediated Colitis: Lack of Ccr5 Expression Results in Th2 Type Immune Response in the Intestine.

Annual Meeting of the American Gastroenterology Association, 2000. Saubermann LJ, Beck PL, de Jong YP, Pitman RS, Terhorst C, Exley M, Snapper S, Balk SP, Hagen SJ, Podolsky DK, Koezuka Y, Blumberg RS. Natural Killer (NK)-T Cell Activation by α -galactosylceramide in the Presence of Cd1d Provides Protection Against Colitis.

Annual Meeting of the American Gastroenterology Association, 2000. Fox JG, Dangler CA, Beck PL, Wang TC, Whary MT, Shi HN, Nagler-Anderson C. Intestinal Helminth Infection

Modulates Inflammation and Reduces Gastric Atrophy in a Mouse Model of Helicobacter Infection.

Crohn's and Colitis Foundation of Canada, Calgary Chapter, March 4, 2000. Basic Science in Inflammatory Bowel Disease.

Calgary Gastroenterology Symposium, Banff, Alberta, 2000. Lymphocyte Regulation of Colitis.

Canadian Celiac Association Meeting, Calgary Chapter 2000. Updates on Celiac Disease Diagnosis and Management.

Canadian Digestive Disease Week, Banff, 2001. Targeted epithelial cell expression of TGF- β dominant negative receptor II (DNRII) results in decreased wound healing in vitro and increased susceptibility to colonic injury in vitro.

Canadian Digestive Disease Week, Banff, 2001. Defining the role of the host response in Helicobacter in induced gastric injury.

University of Calgary Intercity Rounds, 2001. Chemoprevention of Colon Cancer.

Advances In Immunology Speakers Program, Boston Medical Center, May 3, 2001. Novel Insights in the Pathogenesis of Inflammatory Bowel Disease.

Massachusetts General Hospital Division of Gastroenterology, May 5, 2001. The Role of TGF β in Inflammatory Bowel Disease.

Alberta Heritage Foundation Research Public Symposium, Oct, 2001. Advances in Inflammatory Bowel Disease Research.

University of Calgary Gastroenterology Research Group Annual Meeting, Banff, Alberta, Jan 2002. Repair Mechanisms in Inflammatory Bowel Disease.

Eighth Annual American-Japan Meeting of Gastroenterology, Kyoto Japan, June 2003. Moderator for Session on Intestinal Inflammation.

Eighth Annual American-Japan Meeting of Gastroenterology, Kyoto Japan, June 2003. Oral presentation; The role of TGF β in intestinal inflammation.

University of Miyazaki, Dept of Pathology, Japan, June 2003. The role of regulation of the intestinal inflammatory response in inflammatory bowel disease.

Keio University, Tokyo, Japan, June 2003. The role of Fas and Fas ligand in intestinal inflammation.

Canadian Digestive Disease Week, Banff, 2003. Beck PL, Wallace LE, Wong J, Urbanski S, O'Loughlin EV, MacNaughton W, Gall DG, Aquaprotein Expression Is Downregulated In An Animal Model Of Colitis, And In Ulcerative Colitis (UC), Crohn's Disease (CD) and Infectious Colitis In Man, Can J Gastro 2003;17:89A

Canadian Digestive Disease Week, Banff, 2003. Andrews CN, Beck PL. Massive Hemorrhage From Cytomegalovirus (CMV) Colitis Treated With Octreotide. Can J Gastro 2003;17:142A

Canadian Digestive Disease Week, Banff, 2003. Beck PL, Li Y. Adherence To a Gluten Free Diet Is The Main Determinant Of Chemokine Expression In Celiac Disease. Can J Gastro 2003;17:31A.

Canadian Digestive Disease Week, Banff, 2003. Armstrong C, Mokashi S, Wong J, Swaminathan S, Hollenberg M, Beck PL. Proteinase Activated Receptors (PAR-1, 2) Regulate Intestinal Wound Repair in vitro. Can J Gastro 2003;17:102A

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Orlando, Florida 2003, Beck PL, Li Y. Adherence to a Gluten Free Diet is the Main Determinant of Chemokine Expression in Celiac Disease.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Orlando, Florida 2003 C Armstrong, Mokashi S, Wong J, Swaminathan S, Hollenberg M, Beck PL. Proteinase Activated Receptors (PAR-1, 2) Regulate Intestinal Wound Repair in vitro.

International Air Seminar between University of Calgary and Sapporo University, Japan. Regulation of Intestinal Inflammation. March 2003.

Canadian Digestive Disease Week, Banff, 2004. Andrews CN, Urbanski S, Beck PL. Gastrointestinal Lymphoma: Histological and Endoscopic Features, Calgary 1999-2003.

Canadian Digestive Disease Week, Banff, 2004. Makhija S, von der Weid P-Y, Meddings J, Beck PL. Is there a role for octreotide in intestinal lymphangiectasia?

Canadian Digestive Disease Week, Banff, 2004. Heemskerk L, Gan I, Urbanski S, Falck V, McLaughlin K, Burak K, Yilmaz S, Seminowich S, Martin G, Beck PL. Characterization of Mycophenolate Mofetil-Induced Intestinal Injury in Transplant Patients.

Canadian Digestive Disease Week, Banff, 2004. Swaminathan S, Armstrong C, Mokashi S, Wong J, Hollenberg MD, Beck PL. PAR-1 & 2 Enhance Intestinal Epithelial Cell Migration via an EGF Receptor Dependent Pathway.

Canadian Digestive Disease Week, Banff, 2004. Li Y, McCafferty DM, Chen C, MacNaughton C, Sharkey K, Beck PL. Bone Marrow Derived Cells Mediate the Reduced Susceptibility of Inducible Nitric Oxide Synthase Deficient (iNos -/-) Mice to Dextran Sodium Sulfate (DSS)-Induced Colonic Injury. Canadian Digestive Disease Week, Banff, 2004.

Canadian Digestive Disease Week, Banff, 2004. Martin G, Armstrong C, Sigalet DL, Heemskerk LM, **Beck PL**. Mycophenolate Mofetil Treatment Induces an Upregulation of TGF- β , IL-1B and Activated Caspase-3 in the Colonic Epithelium of M.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, New Orleans, 2004. C. N. Andrews, S. Urbanski, C. Nash, MJ Gilll, P. L. Beck. Introduction Of Enhanced Antiretroviral Therapy Has Altered The Natural History, Risk Factors Associated With Gastrointestinal Lymphoma.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, New Orleans, 2004. Li Y, McCafferty DM, Chen C, MacNaughton C, Sharkey K, **Beck PL**. Bone Marrow Derived Cells Mediate the Reduced Susceptibility of Inducible Nitric Oxide Synthase Deficient (iNos -/-) Mice to Dextran Sodium Sulfate (DSS)-Induced Colonic Injury.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, New Orleans, 2004. Heemskerk L, Gan I, Urbanski S, Falck V, McLaughlin K, Burak K, Yilmaz S, Seminowich S, Martin, G **Beck PL**. Characterization of Mycophenolate Mofetil-Induced Intestinal Injury in Transplant Patients.

Future of Therapy for Inflammatory Bowel Disease, Western Canadian Inflammatory Bowel Disease Symposium, Lake Louise, November 2004.

Increasing the Safety of NSAIDs in Clinical Practice, Continuing Medical Education Series for Family Practitioners, University of Calgary, November 2004.

Diagnosis and Management of Celiac Disease in Primary Care, Continuing Medical Education Series for Family Practitioners, University of Calgary, October 2004.

Celiac Disease Workshop. 50th Annual Scientific Assembly, Alberta College of Family Physicians. Banff February 2005.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Chicago 2005. **Beck PL**, L Heemskerk, J Wong, A Li, C Armstrong, G Martin, D Sigalet, SJ Urbanski. Characterization of the Mechanisms of Mycophenolate Mofetil (MMF)-Induced Intestinal Injury; An Insight Into Factors Critical to Intestinal Homeostasis.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Chicago 2005. S. Swaminathan, C.S. Armstrong, S. Mokashi, J.F. Wong, M.D. Hollenberg, **Beck.PL** Proteinase-activated Receptors (PARs) 1 and 2: modulation of intestinal epithelial wound repair in vitro. Oral presentation.

World Congress of Gastroenterology Meeting, Montreal 2005. **Beck PL**, L Heemskerk, J Wong, A Li, C Armstrong, G Martin, D Sigalet, SJ Urbanski. Characterization of the mechanisms of mycophenolate mofetil (MMF)-induced intestinal injury; An insight into factors critical to intestinal homeostasis.

World Congress of Gastroenterology Meeting, Montreal 2005. S Makhija, JJ Williams, R Hilsden, SJ Urbanski and **Beck PL.** How often does the endoscopic observation of scalloping of the duodenum correlate with celiac disease on the biopsy and what is the incidence of biopsy proven celiac disease in the Calgary Health Region?

World Congress of Gastroenterology Meeting, Montreal 2005. S Makhija, JJ Williams, R Hilsden, A. Lyon and **Beck PL.** Assessing the Incidence of Celiac Disease and Immunoglobulin Deficiency in the Calgary Health Region.

World Congress of Gastroenterology Meeting, Montreal 2005. Beck PL, T Alain, A Kossakowska, S Urbanski, R Johnston, D Morris and P Lee. Reovirus is Effective in the Prevention and Treatment of Azoxymethane-induced Aberrant Crypt Foci and Colon Cancer.

World Congress of Gastroenterology Meeting, Montreal 2005. S. Swaminathan, C.S. Armstrong, S. Mokashi, J.F. Wong, M.D. Hollenberg, **Beck PL.** Proteinase-activated Receptors (PARs) 1 and 2: modulation of intestinal epithelial wound repair in vitro.

World Congress of Gastroenterology Meeting, Montreal 2005. J Williams, G Kaplan, S Makhija, S Urbanski, R Panaccione, **Beck PL.** Population-based study of the epidemiology of and the risk factors for microscopic colitis.

World Congress of Gastroenterology Meeting, Montreal 2005. B Yan, G Kaplan, S Urbanski, **Beck PL** Epidemiology of gastrointestinal stromal tumors in the Calgary Health Region: A population based study.

Immunology Retreat University of Calgary Nov 2005, Kananaskis. From Bedside to Bench; Characterization of Factors That Are Critical in Intestinal Homeostasis.

Educational Update for Family Physicians, University of Calgary, Nov 2005, Update on Irritable Bowel Syndrome.

University of Calgary Mini-Medical School 2005. A mini-medical school put on for the general public. Topic; The Gut.

Calgary Health Region Transplantation Group Meeting, University of Calgary, Nov 2005. Assessing the GI Problems Associated with Mycophenylate Mofetil.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Los Angeles 2006. HB Jijon, A Buret, K Fines, S Mokashi, H Parsons, **Beck PL.** Characterization of a Novel TNF-Alpha Signalling Cascade Involving Autocrine EGF Receptor Transactivation in Human Intestinal Epithelial Cells.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Los Angeles 2006. B Yan, GG Kaplan, S Urbanski, C Nash, **Beck PL.** Epidemiology of Gastrointestinal Stromal Tumors in a Defined Canadian Health Region: A Population Based Study.

American Association of Gastroenterology, Digestive Disease Week Review Course, Lake Louise Alberta, 2006. Basic Science that Will Change My Clinical Practice.

Canadian Digestive Disease Week, Banff, 2007. P Belletrutti, J Love, J Romagnuolo, R Hilsden, B Kaplan, F Chen, **Beck PL.** Complications of gluing gastric varices.

Canadian Digestive Disease Week, Banff, 2007. K Novak, S Medlicott, S Bass, R Cowie, **Beck PL.** Gastrointestinal manifestations of mycobacterium tuberculosis A population-based study in the Calgary Health Region.

Canadian Digestive Disease Week, Banff, 2007. S Asfaha, S Alqahtani, RJ Hilsden, AR MacLean, **Beck PL.** Assessment of endoscopic training of general surgery residents.

Canadian Digestive Disease Week, Banff, 2007. J Strauss, C Ambrose, S Ness, K Rioux, **P Beck,** R DeVinney, E Allen-Vercoe A potential role for fusobacterium nucleatum in the aetiology of inflammatory bowel diseases.

Canadian Digestive Disease Week, Banff, 2007. H Wang, R Zhang, DM McCafferty, **Beck PL,** SJ Urbanski, WK MacNaughton. Nitric oxide in colitis-associated colonic neoplasia: Role of WNT-induced secreted protein-1 (WISP-1).

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Washington, 2007. Increased Microscopic Colitis Following Renal and Liver Transplantation: A population-Based Study. G Kaplan, S Seminowich, J Williams, M Dupre, SJ Urbanski, S Yilmaz, K Burak, **Beck PL.**

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Washington, 2007. Assessment of Efficacy and Complications of Gluing Gastric Varices in Large North American Center. P Belletrutti, J Love, J Romagnuolo, R Hilsden, B Kaplan, F Chen and **Beck PL.**

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Washington, 2007. Patients with Inflammatory Bowel Disease Have Evidence of Systemic Endothelial Dysfunction. I Roifman, JP Fedwick, R Panaccione, H Lui, TJ Anderson, **Beck PL.**

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Washington, 2007. Incidence Rates and Risk Factors for Microscopic Colitis: A Large Population-Based North American Study. JJ Williams, GG Kaplan, S Makhija, SJ Urbanski, M Dupre, R Panaccione, **Beck PL.**

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Washington, 2007. TGF-alpha mediates AUTOCRINE EGF Receptor Trans-Activation following Tnf-alpha stimulation in human intestinal epithelial Cells.HB Jijon, A Buret, S Mokashi, H Parsons, M Hollenberg, **Beck PL.**

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Washington, 2007. Surgeons Are Doing More Endoscopic Procedures: Are They Being Appropriately Trained? S. Asfaha; S. Alqahtani; R. J. Hilsden; A. R. MacLean; **P. L. Beck**.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Washington, 2007. Nitric Oxide in Colitis-associated Colonic Neoplasia: Role of Wnt-Induced Secreted Protein-1 (WISP-1). H. Wang; R. Zhang; D. McCafferty; **P. L. Beck**; S. J. Urbanski; W. K. MacNaughton.

Continuing Education Program, Faculty of Medicine, University of Calgary, Feb 2007, Update on Celiac Disease.

Continuing Education Program, Faculty of Medicine, University of Calgary, Feb 2007, Update on general gastroenterology for family medicine.

American Association of Gastroenterology, Digestive Disease Week Review Course, Lake Louise Alberta, 2007. Update on Advances in Management of Ulcerative Colitis.

Institute on Infection, Inflammation and Immunity, University of Calgary. Research Symposium 2007.

Western Canadian IBD Symposium, Banff, Nov 2007. Immunology of Inflammatory Bowel Disease; more than just Th1 and Th2.

Julia McFarlane Diabetes Research Symposium, University of Calgary, Nov 2007. Sugar and the Gut. The Impact of Diabetes on the Gastrointestinal Tract.

University of Calgary Gastrointestinal Research Group Annual Meeting, Banff 2008. Insights into the Pathogenesis of Inflammatory Bowel Disease from the Field of Transplantation Medicine.

Canadian Digestive Disease Week, Montreal March 2008, Chaired a research symposium entitled; Canadian Association of Gastroenterology Clinical Paper Session.

Canadian Digestive Disease Week, Montreal March 2008, Organized and Chaired a research symposium entitled; New Insights In to the Pathogenesis of IBD and How They May Change Clinical Practice.

Canadian Digestive Disease Week, Montreal March 2008, Chaired and presented at a small group session entitled; Management of Microscopic Colitis.

Canadian Digestive Disease Week, Montreal March 2008, plenary session talk entitled; Insights into the Pathogenesis of Inflammatory Bowel Disease from the Field of Transplantation Medicine.

University of Calgary Min-Medical School March 2008, A Review of Gastroenterology.

University of Calgary Min-Medical School January 2008, Drug development.

Anaerobe Meeting, June 2008. Characterization of fusobacteria nucleatum isolated from human intestinal biopsies – are strains from inflammatory bowel disease patients more virulent? Strauss,

J.C.; Sibley, C.; Kaplan, G.G.; Rioux, K.P.; Panaccione, R.; **Beck, P.L.**; Lynch, T.; Surette, M.G.; Allen-Vercoe, E.

Canadian Digestive Disease Week, Montreal March 2008, E Ihara, SA Hirota, **PLBeck**, JA MacDonald. Upregulation of HIF-1 α is associated with augmented Rho-kinase-mediated contraction of ileal smooth muscle following exposure to Clostridium difficile toxins in a mouse ileal loop model.

Canadian Digestive Disease Week, Montreal March 2008, E Ihara, S Hirota, K Fines, **Beck PL**, JA MacDonald. Alterations in the contractile properties of ileal smooth muscle exposed to clostridium difficile toxins: the involvement of HIF-1 α .

Canadian Digestive Disease Week, Montreal March 2008, S Asfaha, M Geddes, Y Leung, J Storek, S Devlin, J Jones, G Kaplan, **Beck PL**, R Panaccione. Risk-aversion profile of Crohn's patients in Calgary: A feasibility study for stem cell transplantation.

Canadian Digestive Disease Week, Montreal March 2008, C Williams, M Dupre, GG Kaplan, CN Andrews, E Shaffer, **Beck PL**. Risk of Endoscopic complications in patients with eosinophilic esophagitis.

Canadian Digestive Disease Week, Montreal March 2008, CI Williams, M Dupre, GG Kaplan, CN Andrews, EA Shaffer, **Beck PL**. Rising Incidence of eosinophilic esophagitis in the Calgary Health Region: A population-based study.

Canadian Digestive Disease Week, Montreal March 2008, E Ihara, **P Beck**, J MacDonald. Ca²⁺ Sensitization of colonic smooth muscle as altered in a murine experimental colitis model.

CAG Research Topics in GI Disease VIII. Toronto, 2008. S. Hirota, J. Ng, Y. Li, E. Ihara, J.A. MacDonald, **P.L. Beck**. (2008) Pharmacological stabilization of HIF-1 α is protective in a mouse model of Clostridium difficile-associated colitis.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, San Diego, 2008. S Asfaha, M Geddes, Y Leung, J Storek, SM Devlin, J Jones, GG Kaplan JA Heatherington, RJ Hilsden, **Beck PL**, R Panaccione. Risk-aversion profile of Crohn's patients: A Feasibility study for stem cell.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, San Diego, 2008. **Beck PL**, GR Martin, Y Li, JF Wong, SJ Urbanski. Unravelling the link between solid organ transplantation and the increased risk for developing inflammatory bowel disease, microscopic colitis and celiac disease.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, San Diego, 2008. **Beck PL**, S Makhija, GR Martin, Y Li, SJ Urbanski, SA Medlicott. Severe immunosuppressant induced ileal Crohn's Disease-like injury in solid organ transplantation recipients treated with mycophenolate mofetil (MMF).

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, San Diego, 2008. Beck PL, GR Martin, Y L, JF Wong, SJ Urbanski. The mechanisms involved in celiac-like lesions induced by mycophenolate mofetil (MMF).

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, San Diego, 2008. CI Williams, MP Dupre, GG Kaplan, CN Andrews, EA Shaffer, Beck PL. Rising incidence of eosinophilic esophagitis in the Calgary Health Region: a population-based study.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, San Diego, 2008. E. Ihara, S. Hirota, P.L. Beck and J.A. MacDonald. (2008) Upregulation of HIF-1 α is associated with augmented Rho-kinase-mediated contraction of ileal smooth muscle following exposure to *Clostridium difficile* toxins in a mouse ileal loop model.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, San Diego, 2008. E. Ihara, S. Hirota, P.L. Beck and J.A. MacDonald. Bacterial translocation induced by chronic stress during the remission phase of rat model of enteritis: A possible risk of inflammatory reactivation?

American Association of Gastroenterology, Digestive Disease Week Review Course, Lake Louise Alberta, 2008. Update on Advances in Management of Crohn's Disease.

Banff Inflammation Workshop, Jan 2009. The Innate Protective Role of HIF-1 α in *Clostridium Difficile*-induced Intestinal Injury.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Chicago, 2009. SA Hirota, J Ng, E Ihara, Y Li, DI Muruve, GD Armstrong, SP Colgan, D Chung, PL Beck, JA MacDonald. Hypoxia Inducible Factor (HIF-1 α) plays a critical innate protective role in *Clostridium difficile* (Cdif) toxin-induced intestinal injury and inflammation. Oral.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Chicago, 2009. SA Hirota, J Ng, MA Khajah, K Parhar, Y Li, DM McCafferty, JA MacDonald, J Tschopp, D Muruve, PL Beck. The NALP-3 inflammasome plays a critical innate immune protective role in intestinal homeostasis and inflammation. Plenary Session, Oral.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Chicago, 2009. M Storr, CN Andrews, SJ Urbanski, MP Dupre, PL Beck. Detection Bias Influences Increasing Rates of Microscopic Colitis: A population based study.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Chicago, 2009. L Vong, JG Ferraz, I Rabbani, R Panaccione, PL Beck, JL Wallace. Regulation of the pro-resolution mediators prostaglandin D₂ and lipoxin A₄ in quiescent human colitis.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Chicago, 2009. P Rousset, N Cenac, D Balz-Hara, S Asfaha, JG Ferraz, PL Beck, R Panaccione, J Selves, L Alric, JP Vinel, N Vergnolle. Protease-Activated Receptor-4 (PAR4) activation:

evidences for its role and activation in the pathogenesis of colitis and in Inflammatory Bowel Diseases. Oral.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Chicago, 2009. JA Ng, SA Hirota, Y Li, JA MacDonald, D Muruve, PL Beck. *Clostridium difficile* (Cdif) toxin-induced intestinal injury is modulated by NALP signaling and activation of the inflammasome. Oral.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Chicago, 2009. K Parhar, MM Hunter, AN Flynn, DM McKay, PL Beck. Alternatively Activated Macrophages Play an Anti-inflammatory Role in Inflammatory Bowel Disease.

Digestive Disease Week and Annual Meeting of American Gastroenterological Association, Chicago, 2009. Chaired a research symposium session entitled; Regulation of Mucosal Immune Responses and Mesenchymal Cell Function.

Canadian Digestive Disease Week, Banff, 2009. J Ng, S Hirota, Y Li, PL Beck, D Muruve, JA MacDonald. Assessment of the Role of Innate Immune Response and NALP Signaling in Inflammatory Bowel Disease.

Canadian Digestive Disease Week, Banff, 2009. J Ng, S Hirota, Y Li, PL Beck, D Muruve, JA MacDonald. NALP Signaling and Innate Immune Responses in Clostridium Difficile Mediated Intestinal Injury.

Canadian Digestive Disease Week, Banff, 2009. S Hirota, E Ihara, J Ng, Y Li, D Muruve, J MacDonald, P Beck. Pharmacological Stabilization of HIF-1 α is Protective in a Mouse Model of Clostridium Difficile-Associated Intestinal Inflammation.

GRIT (Gastroenterology Residents in Training) Course, Canadian Association of Gastroenterology Meeting, Banff, 2009, Innate Immune Responses in Intestinal Inflammation.

Canadian Digestive Disease Week, Banff, 2009. Chaired a small group session entitled; Microscopic Colitis and Other Non-IBD Inflammatory Conditions.

Crohn's and Colitis Foundation, Inflammatory Bowel Disease 2009. Chaired a symposium on stem cell transplantation in inflammatory bowel disease.

American Association of Gastroenterology, Digestive Disease Week Review Course, Lake Louise Alberta, 2009. Basic science that will change clinical practice.

Neuroimmunophysiology of the Gastrointestinal Tract, An International Conference, Banff. Innate Immune responses in Clostridium difficile-induced intestinal Injury, October, 2009.

University of Toronto, Visiting Lecture. The Inflammasome in Intestinal Inflammation and Homeostasis, November, 2009.

University of Toronto, The Hospital for Sick Children, Journal Club. Mechanisms Involved in Clostridium Difficile-induced Intestinal Injury, November, 2009.

Plenary Session Organizer and Chair of a research symposium entitled; Danger Signaling and Host Defense; NODs, TLRs, NLRPs and more! Canadian Digestive Disease Week, Toronto 2010.

Small Group Presenter; Microscopic Colitis and other non-IBD Inflammatory Condition of the GI Tract. **Canadian Digestive Disease Week, Toronto 2010.**

Small Group Presenter; Eosinophilic Esophagitis, Treatment Across the Age Spectrum. **Canadian Digestive Disease Week, Toronto 2010.**

Chair American Association of Gastroenterology Meeting, New Orleans, May 2010.
Animal Models: Mechanisms of Intestinal Inflammation.

Hirota SA, Ng J, Khajah MA, Li Y, Lam V, Rioux KP, Tschopp J, McCafferty D-M, Muruve D, MacDonald JA, **PL Beck**. Loss of the NOD2-Related Molecule NLRP3 Results in Broad Changes in the Innate Immune Response and Intestinal Microbiota Resulting in an Increased Susceptibility to Intestinal Inflammation. **Oral presentation, American Association of Gastroenterology Meeting, New Orleans, May 2010**

Ng J, Hirota SA, Gross O, Li Y, Armstrong GD, Feng H, MacDonald JA, Tschopp J, Muruve D, **PL Beck**. Inflammasome Activation is a Critical Signaling Pathway in *Clostridium difficile* Toxin-Induced Intestinal Injury Which Requires Conservation of Specific Toxin Processing Events, Toxin Domains and Downstream Signaling. **Oral presentation, American Association of Gastroenterology Meeting, New Orleans, May 2010.**

Andrews CN, Syed A, Urbanski SJ, **PL Beck**, Storr M. The rising Incidence of Eosinophilic Esophagitis Correlates With Increased Awareness of the Disease. **Poster presentation, American Association of Gastroenterology Meeting, New Orleans, May 2010.**

Jijon H, Buret AG, Hirota CL, Hollenberg MD, **PL Beck**. TGF-Alpha Autocrine Signaling is a Key Step in TNF-Alpha-Stimulated Proinflammatory Signaling in Intestinal Epithelial Cells. **Poster presentation, American Association of Gastroenterology Meeting, New Orleans, May 2010.**

Ueno A, Hirota SA, Ng J, Li Y, Muruve D, Tschopp J, **PL Beck**, Ghosh S. Loss of NLRP-3 Signaling Results in Altered Dendritic Cells (DC) Population and Impaired Induction of Regulatory T-Cells (Treg): Implications for Intestinal Inflammation. **Poster presentation, American Association of Gastroenterology Meeting, New Orleans, May 2010.**

Defining the Role of the Inflammasome in Intestinal Inflammation and Homeostasis, **University of Toronto** (invited by D. Drucker) September, 2010.

Update on the Diagnosis and Management of Celiac Disease, Calgary Family Physicians Educational Series, Nov, 2010.

Stem Cells in the Treatment of Inflammatory bowel disease, New Therapeutic Approaches in IBD, **Crohn's and Colitis Foundation of Canada**, Edmonton, AB, November 14th, 2010. Public Educational Forum "Living With Inflammatory Bowel Disease".

Visiting Speaker, **Harvard University, Massachusetts General Hospital**. December 7th, 2010. Host; Dr Ramnik Xavier.

The Role of the Inflammasome in Intestinal Inflammation and Homeostasis. **Banff Inflammation Workshop, Jan 2011.**

The Role of the Inflammasome in Intestinal Homeostasis. **GI Research Group Retreat, Banff, March, 2011.**

Stem Cells in the Treatment of Inflammatory bowel disease, New Therapeutic Approaches in IBD, **Crohn's and Colitis Foundation of Canada**, Calgary, AB, March 27th, 2011. Public Educational Forum "Living With Inflammatory Bowel Disease".

The Role of the Inflammasome in Intestinal Homeostasis. McMaster University, June 2011.

Finding the Balance. The Career Development of a Clinician Scientist, Canadian National Medical Student Research Symposium, **Winnipeg, June 2011.**

Insights into the Pathogenesis of IBD from the Field of Transplantation, University of Manitoba, Division of Gastroenterology, June 2011.

Post Hotel DDW Review Course Faculty, Presented Session on **Basic Science That Will Change Clinical Practice**, Lake Louise, June 2012.

Diagnosis and management of irritable bowel syndrome, CME event Family Medicine University of Calgary, Dr N. Yee contact person. November 2011.

Unusual IBD – mycophenolate induced IBD post-transplant. GIRG Symposium, Banff Centre, January, 2012.

Developing a Translational Research Program: Perspectives From a Clinician Scientist. Research Topics in GI Disease, Canadian Digestive Disease Week. National Symposium for GI Research Trainees. Montreal February, 2012. Course Staff.

Research Topics in GI Disease, Canadian Digestive Disease Week. Small group, 2 day National Symposium for GI Research Trainees. Montreal February, 2012. Course Staff

Canadian Digestive Disease Week. **Presented a Small Group Session on Microscopic Colitis**, Montreal February, 2012. Course Staff.

Canadian Digestive Disease Week. Organized and Chaired a Session on Resolution of Inflammation, Montreal February, 2012

University of British Columbia, NLRs in Intestinal Homeostasis, 2012.

Snyder Institute of Chronic Diseases. University of Calgary. NLRs in Intestinal Homeostasis. 2012.

Inflammation Research Network, IL 15 and the Gut. 2013.

Crohn's and Colitis Foundation, Public Forum. Research in Inflammatory Bowel Disease. Calgary Chapter, 2013.

Moderator, American Gastroenterology Association Meeting, Orlando, Florida. Experimental Models of Inflammatory Bowel Disease May 2013.

Fecal Transplantation for Diarrheal Diseases, Hot Topics in Gastroenterology, University of Manitoba, May 2013.

Crohn's and Colitis Foundation of Canada Laboratory Tour. Hosted and presented to a group of lay public that toured our labs on the possible causes of IBD and how we do research on IBD, with special focus on the CCFC GEM Project and the Alberta IBD Consortium, July 2013.

Immunosuppression as a Cause of Inflammatory Bowel Disease, 10th Annual Symposium on the Physiology and Diseases of the Digestive Tract, University of Sherbrooke, October 2-4, 2013.

Immunosuppression as a Cause of Inflammatory Bowel Disease, Basic Science Research Rounds, University Of Alberta, October 8th, 2013.

Beating the Difficult, Assessing the Pathogenesis of *C. difficile* colitis Towards Developing a Cure. Intercity City Gastroenterology Rounds, University Of Alberta, October 8th, 2013.

Mount Sinai Hospital, University of Toronto. Beating the Difficult, Assessing the Pathogenesis of *C. difficile* colitis Towards Developing a Cure. January, 2014.

University of British Columbia. Beating the Difficult, Assessing the Pathogenesis of *C. difficile* colitis Towards Developing a Cure. February, 2014.

University of British Columbia. Fecal Transplantation for Diarrheal Diseases. February, 2014

Queen's University. Beating the Difficult, Assessing the Pathogenesis of *C. difficile* colitis Towards Developing a Cure. March, 2014

Sick Kids Hospital, University of Toronto. Beating the Difficult, Assessing the Pathogenesis of *C. difficile* colitis Towards Developing a Cure. March, 2014

PUMCH International Digestive Disease Forum. Peking Union Medical College, Beijing, China. Immunosuppression as a cause of IBD. April, 2014

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Peking Union Medical College, Beijing, China. Fecal Transplantation for Diarrheal Diseases . April, 2014.

Chongqing Medical University, Refractory Celiac Disease, State of the Art. Chongqing, China, April, 2014.

Chongqing Medical University, Fecal Transplantation for Diarrheal Diseases, Chongqing, China, April, 2014.

Atlantic Association of Gastroenterology. Beating the Difficult, Assessing the Pathogenesis of C. difficile colitis Towards Developing a Cure. June, 2014.

Atlantic Association of Gastroenterology. Fecal Transplantation for Diarrheal Diseases. June, 2014.

University of Calgary, CME Family Medicine Project, Celiac Disease Update, slide presentations and pod-cast, Dr R. Ward coordinator, June 2014.

Vancouver, Family Medicine Conference, Update on Celiac Disease, 2017.

Toronto, Family Medicine Conference, Update on Celiac Disease, 2017.
CIHR Human Immunology Initiative, Defeating Fibrosis in IBD, Toronto, 2019.

American Gastroenterology Association Meeting, Fibrocytes in Inflammatory Bowel Disease, San Diego, 2019.

University of Calgary, Annual Gastroenterology Research Group Meeting, Targeting Fibrosis in Inflammatory Bowel Disease, 2019.

Mini Medical School, University of Calgary, Gluten Sensitivity and Celiac Disease, 2019.

Mentoring in IBD, The Master Class. Panel Member and mentor. National Conference, Toronto 2019

Drug-Induced Colitis and what We Can Learn About IBD Pathogenesis, Canada Future Directions in IBD. National Conference, Toronto 2019

WISHES (Wellness Innovation Scholarship for Health Professions Education and Sciences) Symposium March 18th 2021. A day long symposium where I was an invited speaker and panelist.

X. PUBLICATIONS

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