The Bachelor of Science in Medicine Program
Bachelor of Science in Medicine

The B.Sc. (Med) program gives medical students an opportunity to engage in original academic research, in basic medical, clinical, or community sciences, under the supervision of a member of the Medical Faculty.

The specific aim of the program is to develop within the student, skills at experimental design, hypothesis testing, critical evaluation of data and the effective communication of results.
Dr. Henry G. Friesen
B.Sc.(Med) 1958

Gairdner Award
Royal Society of Canada
President of CIHR (MRC)
Order of Canada
Canadian Medical Hall of Fame
Dr. John H. Dirks
B.Sc.(Med) 1957

Chair of Medicine (UBC)
Dean of Medicine (UofT)
Chair of COMGAN
Royal Society of Canada
Order of Canada
Canadian Medical Hall of Fame
Dr. Charles H. Hollenberg
B.Sc.(Med) 1955
Chair of Medicine (UofT)
Director of Banting & Best Diabetes Centre
President & CEO of Ontario Cancer Treatment and Research Foundation
Order of Canada
Canadian Medical Hall of Fame
The opportunity to engage in original research in both general and specialized medicine

Develop skills in research design, hypothesis testing, critical evaluation of data and effective communication of results
Dr. Christopher M. Robertson  
B.Sc. (Med) 2005  

“Mycophenolic acid inhibits avian reovirus replication”  
*Antiviral Research* 64 (2004)  

Christopher M. Robertson, Laura L. Hermann, Kevin M. Coombs
Dr. Gary Allan Harding

B.Sc. (Med) 2000

“In Vitro Characterization of Aminoglycoside Adaptive Resistance in Pseudomonas aeruginosa”
Antimicrobial Agents and Chemotherapy 40:6 (June 1996)

James A. Karlowsky, Marilyn H. Saunders, Gary A. J. Harding, Daryl J. Hoban, and George G. Zhanel
Dr. Harry Ronald Hoff

B.Sc. (Med) 1992

“Acetylator Phenotype Does Not Predict Acetylation Of Amantadine In Man”


Harry R. Hoff, Daniel S. Sitar and Fred Y. Aoki
Bachelor of Science in Medicine

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Brett L. Houston

B.Sc. (Med) 2011

“Refinement of the hereditary xerocytosis locus on chromosome 16q in a large Canadian kindred”

*Blood Cells, Molecules, and Diseases* 47:4 (December 2011)

The opportunity to work with basic science and clinical investigators at the University of Manitoba

Establish professional relationships while working on scientific discovery
Dr. Allan R. Ronald
B.Sc.(Med) 1961

Founding member of the Manitoba Infectious Disease Program

Author of over 500 original articles, book chapters and reviews

Founding member of Academic Alliance for AIDS Care and Prevention in Africa

Order of Canada

Canadian Medical Hall of Fame
Dr. Marc R. Del Bigio

B.Sc.(Med) 1982

Canada Research Chair in Developmental Neuropathology

Professor, Department of Pathology, University of Manitoba
Dr. Terry P. Klassen

B.Sc.(Med) 1982

Founder of Pediatric Emergency Research of Canada (PERC)
Founding Director of the University of Alberta Evidence-Based Practice Center

Director of Research, Manitoba Institute of Child Health (MICH)

Associate Dean, Academic, Faculty of Medicine
Dr. Arnold Naimark

B.Sc.(Med) 1957

Head, Department of Physiology, University of Manitoba
Dean, Faculty of Medicine, University of Manitoba
President and Vice-Chancellor, University of Manitoba
Royal Society of Canada
Order of Canada
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Dr. Peter Nickerson

B.Sc.(Med) 1986

Professor, Internal Medicine, University of Manitoba
Director, Immunogenetics Laboratory, Canadian Blood Services
Associate Dean, Research, Faculty of Medicine

Fellow, Canadian Academy of Health Sciences (CAHS)
Dr. Dean Cullen Swedlo

B.Sc. (Med) 2005

“Molecular Epidemiology and Prevalence of Macrolide Efflux Genes $mef(A)$ and $mef(E)$ in *Streptococcus pneumoniae* Obtained in Canada from 1997 to 2002”

*Antimicrobial Agents and Chemotherapy* 49:3 (March 2005)

Aleksandra K. Wierzbowski, Dean Swedlo, Dave Boyd, Michael Mulvey, Kim A. Nichol, Daryl J. Hoban, and George G. Zhanel
Dr. Glen Robert Drobot

B.Sc. (Med) 1996

“Antibiotic Activity in Microbiological Media versus That in Human Urine: Comparison of Ampicillin, Ciprofloxacin, and Trimethoprim-Sulfamethoxazole”

*Antimicrobial Agents and Chemotherapy* 40:1 (January 1996)

**Glen R. Drobot**, James A. Karlowsky, Daryl J. Hoban, and George G. Zhanel
“Effect of dietary hempseed intake on cardiac ischemia-reperfusion injury”

American Journal of Physiology: Regulatory, Integrative and Comparative Physiology 292:3 (November 2006)

Possibility of publication in a peer reviewed journal

Research performed in medical school could improve residency opportunities
The B.Sc. (Med) program gives medical students an opportunity to engage in original academic research, in basic medical, clinical, or community sciences, under the supervision of a member of the Medical Faculty.

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Faculty of Medicine
Dr. Tavis Reid Bodnarchuk

B.Sc. (Med) 2009

“Evaluation of influenza-specific humoral response by microbead array analysis”

*Canadian Journal of Infectious Disease & Medical Microbiology*

22:1 (Spring 2011)

Yoav Keynan, Tavis Bodnarchuk, Stephen Wayne, Yan Li, and Keith R Fowke
Dr. Charles Noah Bernstein

B.Sc. (Med) 1985

“A Prospective Population-Based Study of Triggers of Symptomatic Flares in IBD”


Charles N. Bernstein, Sunny Singh, Lesley A. Graff, John R. Walker, Norine Miller, and Mary Cheang
“Degradation of Endothelial Basement Membrane by Human Breast Cancer Cell Lines”

_Cancer Research_ 46 (April 1986)

Cassian Yee and Robert P.C. Shiu
The opportunity to work with basic science and clinical investigators at the University of Manitoba

Establish professional relationships while working on scientific discovery
Bachelor of Science in Medicine

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Dr. Maxym Choptiany

B.Sc. (Med) 2009

“Risk factors for acquisition of endemic blastomycosis”

*Canadian Journal of Infectious Disease & Medical Microbiology*

20:4 (Winter 2009)

**Maxym Choptiany**, Lyle Wiebe, Bill Limerick, Pete Sarsfield, Mary Cheang, Bruce Light, Greg Hammond, Kerry MacDonald, Elly Trepman, Peter Pappas and John Embil
Dr. Tracy Leanne Crampton
B.Sc. (Med) 2002

“Epidemiology and Clinical Spectrum of Blastomycosis Diagnosed at Manitoba Hospitals”
Clinical Infectious Diseases (CID) 34:15 (May 2002)

Tracy L. Crampton, R. Bruce Light, Greg M. Berg, Michael P. Meyers, Gary C. Schroeder, Earl S. Hershfield and John Embil
“Interprovincial spoke-to-hub transport using the Impella Recover LP 5.0 left ventricular assist device as a bridge to long-term circulatory support”

*Canadian Journal of Cardiology* 26:8 (October 2010)
The opportunity to work with basic science and clinical investigators at the University of Manitoba

Establish professional relationships while working on scientific discovery
Dr. Amit Jagdeo

B.Sc. (Med) 2006

“Negative Attitudes Toward Help Seeking for Mental Illness in 2 Population-Based Surveys from the United States and Canada”

*Canadian Journal of Psychiatry* 54:11 (November 2009)

**Jagdeo, Amit; Cox, Brian; Stein, Murray B; Sareen, Jitender**
Dr. Davinder Jassal

B.Sc. (Med) 1998

“Diagnosis of pericardial cysts using diffusion weighted magnetic resonance imaging: A case series”

Journal of Medical Case Reports 24:5 (September 2011)

Dr. Douglas Kral
B.Sc. (Med) 2007

“Clinical Characteristics and Outcomes in Patients with Pulmonary Blastomycosis”
Mycopathologia 167:3 (March 2009)

Doug Kral, Bruce Light, Mary Cheang, Tracy MacNair, Lyle Wiebe, Bill Limerick, Pete Sarsfield, Greg Hammond, Kerry MacDonald, Elly Trepman and John M. Embil
Bachelor of Science in Medicine

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The Neil John Maclean Health Sciences Library keeps B.Sc. (Med) projects in the UM digital repository in perpetuity
Dr. Bonnie L. Meatherall
B.Sc. (Med) 2004

“Disability and Quality of Life in Canadian Aboriginal and Non-Aboriginal Diabetic Lower-Extremity Amputees”
Archives of Physical Medicine and Rehabilitation 96 (August 2005)

Bonnie L. Meatherall, Mark R. Garrett, Joseph Kaufert, Bruce D. Martin, Monica W. Fricke, Amarjit S. Arneja, Frank Duerksen, Joshua Koulack, Hank M. Fong, J. Neil Simonsen, Lindsay E. Nicolle, Elly Trepman, and John M. Embil
Dr. Bernard R. Mezon

B.Sc. (Med) 1974

“Differing Populations of Mitochondria Isolated from the Skeletal Muscle of Normal and Dystrophic Hamsters”


B.J. Mezon, K. Wrogemann, M.C. Blanchaer
Dr. Alia Wetherow Norman

B.Sc. (Med) 2001

“Family physicians and cancer care: Palliative care patients’ perspectives”

*Canadian Family Physician* 47 (October 2001)

Alia Norman, Jeffrey Sisler, Thomas Hack and Michael Harlos
Bachelor of Science in Medicine

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Dr. Judy E. Anderson

B.Sc.(Med) 1981

Professor, Department of Human Anatomy and Cell Science, University of Manitoba

Associate Dean, Academic, Faculty of Medicine

Head, Department of Biological Sciences, University of Manitoba
Dr. Sharon Macdonald

B.Sc.(Med) 1972
Director, J.A. Hildes Northern Medical Unit, Faculty of Medicine
Vice-President and Chief Operating Officer, Community Health Services, WRHA
Head, Department of Community Health Sciences, Faculty of Medicine
Bachelor of Science in Medicine

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Dr. Mark Oppenheimer
B.Sc. (Med) 2007

“Blastomycosis of Bones and Joints”
*Southern Medical Journal* 100:6 (June 2007)

Mark Oppenheimer, John M. Embil, Brian Black, Lyle Wiebe, Bill Limerick, Kerry MacDonald and Elly Trepman
Possibility of publication in a peer reviewed journal

Research performed in medical school could improve residency opportunities
The Bachelor of Science in Medicine Program

Faculty of Medicine