FACULTY OF MEDICINE

FACULTY OF MEDICINE

SECTION CONTENTS

Personnel . . . 351

1 The Memorial University of Newfoundland Code . . . 360

2 Background . . . 361

3 Mission and Objectives of the Faculty of Medicine . . . 361

4 Affiliated Teaching Sites . . . 362

5 Description of Medical Training Program . . . 362

6 Continuing Medical Education . . . 362

7 Postgraduate Medical Training Programs . . . 362
- 7.1 Family Emergency Medicine . . . 362
- 7.2 Residency Training Programs . . . 362
- 7.3 Clinical Fellowships . . . 362
- 7.4 Registration . . . 363
- 7.5 Licensure in Newfoundland and Labrador . . . 363
- 7.6 Evaluation . . . 363
- 7.7 Probation . . . 363
- 7.8 Promotion . . . 363
- 7.9 Dismissal . . . 363

8 Graduate Studies . . . 363

9 Regulations for the Degree of Doctor of Medicine . . . 364
- 9.1 Admission to the Faculty of Medicine . . . 364
- 9.2 Licensure in Newfoundland and Labrador and Other Approvals . . . 364
- 9.3 Evaluation . . . 365
- 9.4 Promotion . . . 365
- 9.5 Curricular Requirements (M.D.) . . . 366

10 Course Descriptions . . . 366
- 10.1 Courses in the First and Second Year of Medical Studies . . . 366
- 10.2 Courses in the Third and Fourth Year of Medical Studies . . . 366
- 10.3 Courses Offered By the Faculty of Medicine for Non-Medical Students . . . 367

N.B. Designation "Clinical" indicates a part-time appointment.

Dean of Medicine
Rourke, J.T.B., M.D. *Western,* CCFP(EM), MClSc(FM), FCFP

Vice Dean
Peters, S., M.D. *Memorial*, MPH *Milwaukee*, FRCPC

Associate Dean for BioMedical Sciences
Mearow, K.M., B.Sc., M.Sc. *Brock*, Ph.D. *McMaster*

Associate Dean for Clinical Research
Parfrey, P., M.B., B.Ch., M.D. *Cork*, M.R.C.P., FRCPC

Associate Dean for Community Health and Humanities
Mulay, S., B.Sc. *Delhi, India,* M.Sc., Ph.D *McGill*

Associate Dean for Research and Graduate Studies (Medicine)
Moody-Corbett, F., B.Sc. *Dalhousie*, M.A. *New Brunswick*, M.Sc., Ph.D. *McGill*

Associate Dean for Undergraduate Medical Education
Farrell, G., M.D. *Memorial*

Assistant Dean for Admissions
Parsons, W., M.D. *Memorial*, C.C.F.P.

Assistant Dean for Continuing Medical Studies
Bursey, R.F., B.Sc, M.D. *Memorial*, FRCPC

Assistant Dean for Post-Graduate Medical Education
Samarasena, L.D.A., M.B., B.S. *Ceylon*, F.F.A.R.C.S. *Ireland*, FRCPC

Assistant Dean for Student Affairs
Harris, J.A., B.Sc., M.D., B.P.E. *Memorial*

Director of Administrative Services
Peddigrew, G., B.Comm. *Memorial*

Manager, Academic Affairs
Corbett, P., B.Voc.Ed. *Memorial*

Manager, Human Resources
Wooley, E., B.Comm.(Co-op) *Memorial*

Division of BioMedical Sciences

Associate Dean & Professor
Mearow, K.M., B.Sc., M.Sc. *Brock*, Ph.D. *McMaster*

Professores Emeriti
Allderdice, P., M.A. *Chicago*, M.S. *Utah*, Ph.D. *Montana*
Bieger, D., M.D., Ph.D. *Kiel*
Orr, J.C., B.Sc. *London*, Ph.D. *Glasgow*, A.R.C.S.
Tomlinson, J.D.W., M.A., M.B., B.Chir. *Cambridge*

Professor of Neuroscience and Anatomy
McLean, J., B.Sc. *New Brunswick*, Ph.D. *Dalhousie*

Assistant Professor of Neurosciences
Yuan, Q., Ph.D. *Memorial*

Professor of Anatomy
Harris, J.A., B.Sc, B.Med. Sc., M.D., B.P.E. *Memorial*, Dip. Med.Ed. *Dundee*

Associate Professor of Anatomy
Chandra, S., M.B., B.S. *New Delhi*

Professor of Neuro/Molecular Biology
Mearow, K.M., B.Sc., M.Sc. *Brock*, Ph.D. *McMaster*

Professor of Molecular Virology and Medicine (Hepatology)
Michalak, T.I., M.D., Ph.D. *Warsaw*

Assistant Professor of Molecular Signalling in Human Health & Disease
Dorward, A.M., B.Sc., Ph.D. *McMaster*; Canada Research Tier II; Cross appointment with Genetics

Professors of Immunology
Grant, M., B.Sc., M.Sc. *British Columbia*, Ph.D. *McMaster*; Joint appointment with Laboratory Medicine
Hirasawa, K., Bc.D., Ph.D. *Tokyo*

Associate Professor of Immunology
Drover, S., M.Sc., Ph.D. *Memorial*

Assistant Professors of Immunology
Larijani, M., B.Sc.(Hons.), Ph.D. *Toronto*; Cross appointment with Discipline of Oncology
Russell, R., M.Sc. *Memorial*, Ph.D. *McGill*

Professor of Endocrinology
Carayanniotis, G., B.Sc. *Patras*, Ph.D. *Toronto*; Joint appointment with Medicine

Professors of Oncology
Church, J., B.Sc.(Hons.) *Queen's*, M.Sc., Ph.D. *Toronto*
Gillespie, L.L., B.Sc., Ph.D. *Ottawa*
Kao, K.R., B.Sc., M.Sc., Ph.D. *Toronto*
Paterno, G.D., B.Sc., M.Sc. *Toronto*, Ph.D. *Ottawa*

Professor of Cancer/Cardiovascular Biology
Gendron, R., B.Sc., Ph.D. *McGill*; Cross appointment with Oncology

Associate Professor of Vascular Molecular Biology/Pediatric Cancers
Paradis, H., B.Sc., Ph.D. *Montreal*

Associate Professor of Cardiovascular Cellular and Molecular Physiology
Stuyvers, B.D., B.Sc., M.Sc., Ph.D. *Bordeaux, France*

Associate Professor of Cell Biology
Doré, J., B.Sc. *UBC*, M.S. *Florida*, Ph.D. *Tennessee*

Professor of Pharmacology (Cardiovascular)
Tabrizchi, R., B.Sc.(Hons.) *Sunderland*, M.Sc., Ph.D. *British Columbia*

Professor of Physiology (Neurosciences)
Corbett, D., B.A. *Dalhousie*, M.Sc. *Memorial*, Ph.D. *Concordia*; Cross appointment with Psychology

Professors of Physiology
Moody-Corbett, F., B.Sc. *Dalhousie*, M.A. *New Brunswick*, M.Sc., Ph.D. *McGill*
McKay, D., B.Sc., M.S., Ph.D. *Michigan State*

Associate Professor of Cardiovascular Sciences
McGuire, J.J., B.Sc.(Hons.), Ph.D. *Queen's University of Kingston*

Associate Professor of Reproductive and Cell Biology/Physiology
MacPhee, D., B.Sc.(Hons.) *Prince Edward Island*, Ph.D. *Western Ontario*; Cross appointment with Biochemistry

Professor of Neurosciences
Hirasawa, M., Bc.D., Ph.D. *Tokyo*

Assistant Professor of Neurosciences
Vanderluit, J.L., B.A./BPHED *Ontario*, M.Sc. *Ottawa*, Ph.D. *British Columbia*

Professors of Cardiovascular/Renal Physiology
Smeda, J., B.Sc.(Hons.), M.Sc. *Brock*, Ph.D. *McMaster*
Van Vliet, B.N., B.Sc. *Toronto*, Ph.D. *Saskatchewan*

Professor (Biological Psychiatry)
Chen, X., M.B. *China*, Ph.D. *Cambridge*; Joint appointment with Psychiatry

Professor (Oncology Research)
Richardson, V.J., B.Sc., Ph.D. *Sheffield*

Joint Appointment with Medicine
Vasdev, S.C., B.Sc., M.Sc., Ph.D., D.V.M. *Punjab*

Cross Appointments from Biochemistry
Brosnan, J.T., B.Sc.(Hons.), M.Sc. *National University of Ireland*, D.Phil. *Oxford*; University Research Professor, Awarded 1990; CIHR Senior Investigator
Brosnan, M.E., B.A.(Hons.), M.Sc., Ph.D. *Toronto*
Kaur, S., B.Sc. *Punjab*, M.Sc. *Punjab Agricultural*, Ph.D. *Post Graduate Institute of Medical Education and Research*

Cross Appointment from Genetics
Young, T., Ph.D. *Memorial*; Winner of the President's Award for Outstanding Research, 2009

Cross Appointment from Medicine
Kovacs, C., M.D., B.A. *Queen's*, FRCPC

Cross Appointments from Pharmacy
Liu, H., B.Sc., M.S. *Beijing*, Ph.D. *Alberta*
Weber, J., M.S. Pharm., Ph.D. *Medical College of Virginia*

Adjunct Professors
Cermack, M., M.D. *Applied Space Technologies, Switzerland*
Mandal, S.K., M.Sc. *Banaras Hindu University*, Ph.D. *Calcutta University*
Mansour, A., B.V.Sc., M.V.Sc., Ph.D. *Cairo University, Egypt*

Clinical Sciences

Anesthesia

Associate Professor and Chair
Pridham, J.N., M.D. *Western Ontario*, FRCPC

Professor
King, F.G., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC

Professor Emeritus
Henderson, C.U., M.D., C.M. *Dalhousie*, F.A.C.A., FRCPC, F.A.A.P.

Associate Professors of Anesthesia
Jamieson, J.W., B.Sc., M.D. *Memorial*, FRCPC
LeDez, K.M., M.B., Ch.B. *Dundee*, FRCPC
Pridham, J.N., M.D. *Western Ontario*, FRCPC

Assistant Professors of Anesthesia
Bautista, M.J., B.Med.Sc., M.D. *Memorial*, FRCPC
Harris, J., B.Sc., M.D. *Memorial*, FRCPC
Howells, S., B.Sc., M.D. *Dalhousie*, FRCPC
O'Leary, S., M.D. *Memorial*, FRCPC
O'Regan, N., M.D. *Dalhousie*, FRCPC
Samarasena, L.D.A., M.B., B.S. *Ceylon*, F.F.A.R.C.S. *Ireland*, FRCPC
Sampson, S., M.D. *University of British Columbia*, FRCPC
Thiessen, B., M.D. *University of British Columbia*, FRCPC
Zbitnew, G., B.Sc., M.D. *University of Alberta*, FRCPC

Clinical Associate Professors of Anesthesia
Bergstrome, D., M.D. *University of Western Ontario*, FRCPC
Davies, E., M.D. *Dublin*, FRCPC
Kamra, C.P., M.B.B.S. *India*, D.A., F.F.A.R.C.S. *England*, F.F.A.R.C.S. *Ireland*, FRCPC

Clinical Assistant Professors of Anesthesia
Barrett, A., M.D. *Memorial*, FRCPC
Casey, A.P., B.Med.Sc., M.D. *Memorial*, FRCPC
Chedore, T., M.D. *Memorial*, FRCPC
Chisholm, J., M.D. *Dalhousie*, FRCPC
Chu, C., M.D. *University of Western Ontario*, FRCPC
Clark, A., M.D. *Leeds*, FRCPC
Clarke, B.A, B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC
Cloutier, J., M.D. *University of Toronto*, FRCPC
Cowan, G., B.Sc., M.D. *Memorial*, FRCPC
Daly, M., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC
Flynn, J.F., B.Sc., M.D. *Memorial*, FRCPC
Forward, R.G., B.Med.Sc., M.D. *Memorial* FRCPC
Gammal, A., B.Sc., M.D. *University of Alberta*, FRCPC
Hughes, D., M.D. *University of Toronto*, FRCPC
Keeping, B., M.D. *Memorial*, FRCPC
Keith, I., M.D. *Aberdeen*, FFARCS., FRCA
Kollipara, S., M.D. *India*, FCARCSI
Lacey, D., B Sc., B.Med.Sc., M.D. *Memorial*, FRCPC
Lee, S., M.D. *Queen's*
Major, A.E., M.D. *Memorial*, FRCPC
Mir, J., M.D. *Stockholm*
Nice, A., M.D. *McGill*, FRCPC
Noel, F.D., B.Sc., M.D. *Memorial*, FRCPC
Redmond, E.B, B.Sc., M.D. *Memorial*, FRCPC
Ridi, A. , M.D., *Dalhousie*, FRCPC
Roob, O., M.D. *University of Alberta*, FRCPC
Sadowski, Z., M.D. *Poland*, FRCPC
Saeed, M., M.D. *Pakistan*
Scovil, J., M.D. *Dalhousie*, FRCPC
Seidmann, T., M.D. *Czechoslovakia*, FRCPC
Suppiah, N , M.B.B.S. *India*, F.FARC.S. *Ireland*
Sweeney, T., B.Sc., M.D. *Memorial*, FRCPC
Szarvas, S., M.D. *Hungary*
Tucker, J.H., M.D. *Western Ontario*, FRCPC
Vermooten, C., M.B., Ch.B. *South Africa*
Williams, J.T.L., B.Sc., M.D. *Dalhousie*, FRCPC

Clinical Lecturer of Anesthesia
Badrudin, N., M.B., B.S., LRCP, MRCS, F.F.A.R.C.S. *England*

Family Medicine

Associate Professor and Chair
Miller, R., M.D. *Western Ontario*, C.C.F.P., F.C.F.P.

Professors of Family Medicine
Bethune, C., M.D. *McMaster*, C.C.F.P., F.C.F.P., M.Cl.Sc. *Western Ontario*; Cross appointment to Counselling Center
Godwin, M., B.Med.Sc., M.D. *Memorial*, M.Sc. *Queen's*, C.C.F.P., F.C.F.P.
Jong, M., M.B.B.S. *Malaya*, M.R.C.P. *U.K.*, C.C.F.P., F.C.F.P.
Rourke, J.T.B., M.D. *Western,* CCFP(EM), MClSc(FM), FCFP

Associate Professors of Family Medicine
Butler, R., B.Sc., M.D. *Memorial*, C.C.F.P., F.C.F.P.
Duke, P., B.Med.Sc., M.D. *Memorial*, C.C.F.P., F.C.F.P.
Eaton, W.H., M.D. *Memorial*, C.C.F.P.
Farrell, G., M.D. *Memorial*
MacDonald, S.M., B.Sc.N., M.D. *McMaster*, C.C.F.P.; Joint appointment with Medicine
Moffatt, S.M., B.Sc. *Acadia*, B.A. *New Brunswick*, M.D. *Memorial*, C.C.F.P., F.C.F.P.
O'Maonaigh, C., M.B., B.Ch., B.A.O., M.P.H. *Ireland*, C.C.F.P., M/CGP
Parsons, E., B.Med.Sc., M.D. *Memorial*, C.C.F.P., F.C.F.P., Dip. Sport Med.
Parsons, W., M.D. *Memorial*, C.C.F.P.
Ravalia, M., L.R.C.P.(Ed.) *Zimbabwe*, C.C.F.P.
Rourke, L., M.D. *Western*, C.C.F.P., F.C.F.P., M.Clin.Sc.
Tarrant, G.M., B.Med.Sc., M.D. *Memorial*, C.C.F.P., F.C.F.P., C.G.P.P., Fellowship in Psychotherapy *Toronto*; Cross appointment to Psychiatry

Assistant Professors of Family Medicine
Asghari, S., M.D., MsPH., Ph.D. *Sherbrooke*
Aubrey, K., B.A.(Hons.), M.Sc. *Western Ontario*, M.D. *Ottawa*
Broderick, V., M.D. *Memorial*, C.C.F.P.
Brown, G., B.Sc., M.D. *Memorial*, C.C.F.P.-E.M.
Duggan, N., M.D. *Memorial*, C.C.F.P.
Flynn, H., M.D. *Memorial*, C.C.F.P.
Graham, W., M.D. *Memorial*, C.C.F.P.
Morgan, D., M.D. *Memorial*, C.C.F.P.-E.M.
Sherman, G.P., B.A. *Cleveland*, M.D. *McGill*, C.C.F.P.
Snow, P., M.D., B.N. *Memorial*, C.C.F.P.
Stringer, K., M.B.Ch.B. *South Africa*, C.C.F.P.

Clinical Associate Professors of Family Medicine
Costello, T., M.D. *Memorial*, C.C.F.P., F.C.F.P.
Doulton, B., B.Sc. *Queen's*, M.D. *Calgary*, C.C.F.P.
Hall, J., M.Sc., M.D. *Memorial*, C.C.F.P.
Hatcher, L., M.D. *Memorial*, C.C.F.P.
St. Croix, E., M.D. *Memorial*, F.C.F.P.

Clinical Assistant Professors of Family Medicine
Aziz, M., M.B.Ch.B. *Baghdad*
Bannister, E., M.D. *Memorial*
Barter, R., M.D. *Dublin*, R.C.S., L.R.C.P.S.I.
Battcock, N., B.Sc., M.D. *Memorial*, C.C.F.P.
Bautista, E., B.Sc. *Memorial*, M.D. *Dalhousie*, C.C.F.P.
Black, D., B.Sc., M.D. *Dalhousie*, C.C.F.P.
Blagrave, D., M.D. *Dalhousie*
Bowen, J., M.D. *Ottawa*
Brake, S., M.D. *Memorial*, C.C.F.P.
Brien, D., B.Sc., M.D. *Dalhousie*, C.C.F.P.
Bugden, G., M.D. *Memorial*, C.C.F.P.(E.M.)
Burton, C., B.Sc., M.D. *Memorial*, C.C.F.P.
Button, L., M.D. *Dalhousie*, C.C.F.P., F.C.F.P.
Callahan, P., M.D. *Memorial*, C.C.F.P.
Campbell, J., B.Sc. *Victoria*, M.D. *Memorial*, C.C.F.P.(E.M.), M.Cl.Sc.
Campbell, S., B.Sc. *Memorial*, M.Sc. *Dalhousie*, M.D. *Memorial*
Canete, Y., M.D. *Philippines*
Canty, A., M.Sc., M.D. *Dalhousie*, C.C.F.P., F.C.F.P.
Carlos, M.A., B.Sc., M.D. *Dalhousie*
Carson, B., M.D. *Dalhousie*, C.C.F.P.
Casey, C., M.D. *Memorial*, C.C.F.P.
Clark, G., M.D. *Dalhousie*, C.C.F.P.(E.M.)

Collings, J., B.Sc., M.D. *Dalhousie*, Ph.D., L.M.C.C.
Combden, S., B.Sc., M.D. *Memorial*, C.C.F.P.(E.M.)
Comeau, L., B.Sc., B.Ed., M.D. *Dalhousie*, C.C.F.P.
Craig, B., B.Sc., M.D. *Dalhousie*
Crocker, P., M.D. *Memorial*, C.C.F.P.
Cutler, M., M.D. *Memorial*, C.C.F.P.
Daraei, N., M.D. *Shahid Beheshti*
Darcy, S., M.D. *Memorial*, C.C.F.P.
Davies, C., M.B., B.Ch., BAD *Dublin*, C.C.F.P., F.C.F.P.
Dufour, K., B.Sc., M.D. *Dalhousie*, C.C.F.P., *Virginia*
Elliott, J., B.N., M.D., C.C.F.P. *Memorial*
Fellows, J., B.Sc., M.D. *Dalhousie*
Fisher, R., M.Sc., M.D. *Dalhousie*, C.C.F.P.
Fitzgerald, C., B.A., M.D. *McMaster*, C.C.F.P.
Forsey, R., B.Sc., B.Med.Sc., M.D. *Memorial*, C.C.F.P.
Goodfellow, M., B.Sc., *St. Dunstan's*, M.D. *Dalhousie*, C.C.F.P.
Goodridge, M., M.D. *Memorial*, C.C.F.P.
Grabove, M., M.D. *Memorial*, C.C.F.P.
Grandy, B., M.D. *Memorial*, C.C.F.P.
Griffin, G., B.Sc., M.D. *Ottawa*, F.R.C.P.
Hall-Losier, S., B.Sc., M.D. *Dalhousie*
Hannigan, J.M., M.D. *Dalhousie*, C.C.F.P.
Hannigan, J.P., M.B., B.Ch., B.A.O., B.A. *Ireland*, C.C.F.P.(E.M.), C.E.U.S.
Hewitt, D., B.Sc. *McMaster*, M.D. *Ontario*, C.C.F.P.
Hicks, F., B.Sc., M.D. *Memorial*, C.C.F.P.
Higgins, G.A., B.Sc., B.Med.Sc., M.D. *Memorial*, C.C.F.P.
Hollway, G., M.D. *Dalhousie*, C.C.F.P., F.C.F.P.
Horwood, K., M.D. *Memorial*, C.C.F.P.
Howell, O., M.Sc. *McGill*, B.Med.Sc., M.D. *Memorial*, C.C.B.O.M.
Howlett, M., B.Sc., M.D. *Dalhousie*, C.C.F.P.(E.M.), M.H.S.A.
Hudson, C., M.D. *Memorial*, C.C.F.P.
Humes, R.T., B.Sc., M.D. *Memorial*, C.C.F.P.(E.M.)
Irfan, M., M.B.B.S. *Sri Lanka*, C.C.F.P.
Jansen, A., M.B.Ch.B. *South Africa*, C.C.F.P.
Jardine, F., M.D. *Memorial*, C.C.F.P.
Karaivanov, Y., M.D. *Sofia Medical University Bulgaria*, C.C.F.P.
Keith, K., M.D. *Memorial*, C.C.F.P.
Keyes, P., M.D. *Memorial*, C.C.F.P.(E.M.)
King, J.F., B.Sc., B.Med.Sc., M.D. *Memorial*, C.C.F.P.
Laurie, A., M.R.C.S., L.R.C.P., D.C.H. *United Kingdom*, C.C.F.P.
Lee, N., B.Med.Sc., M.D. *Memorial*, C.C.F.P. (E.M.)
Lee, W., B.Sc., M.D. *Dalhousie*
Lemire, F., M.D., C.M. *McGill*, C.C.F.P.
Locke, A., M.D. *Memorial*, C.C.F.P.(E.M.)
Lohoar, A., M.D. *Queen's*, C.C.F.P.(E.M.), F.C.F.P.
MacCallum, M., B.B.A., M.D. *Dalhousie*, C.C.F.P.
MacDonald, G., M.D. *Dalhousie*, C.C.F.P.
MacLeod, S., B.Sc., M.D. *Memorial*, C.C.F.P.
MacNeil, M., M.D. *Dalhousie*, C.C.F.P.
Mangat, B., M.B.B.S., M.S.(E.N.T.) *India*
Martin, W., M.D. *Dalhousie*, C.C.F.P.
Mayo, E., M.D. *Memorial*, C.C.F.P.
McCarthy, J., B.Sc., M.D. *Memorial*, C.C.F.P.
McComiskey, A., M.D. *Ireland*
Mercer, G., M.D. *Memorial*, C.C.F.P.
Morris, A., M.D. *University of British Columbia*, C.C.F.P.
Moulton, W., M.D. *Memorial*
Murphy, K., B.Sc., M.D. *Memorial*, C.C.F.P.(E.M.)
O'Brien, C., M.D. *Memorial*, C.C.F.P.
O'Keefe, D., M.D. *Memorial*
O'Keefe, M., B.Sc., M.D. *Toronto*, C.C.F.P.
O'Shea, P.M., B.Sc. *St. Francis Xavier*, M.D. *Queen's*, C.C.F.P., F.C.F.P.
Parsons, M., B.Sc., M.D. *Memorial*, C.C.F.P.
Patel, K., M.D. *Ireland*, L.R.C.P., L.R.S.I., E.C.F.M.G.
Paul, A., M.D. *Memorial*
Pearce, B., M.D. *Memorial*
Penney, C., M.B., B.S. *London*
Perley, M., M.D. *Dalhousie*, C.C.F.P.
Pishe, T., M.D. *Dalhousie*, C.C.F.P.(E.M.), C.E.U.S.
Pollock, C., B.Sc., M.D. *Memorial*, C.C.F.P.(E.M.)
Postuma, P., B.Sc., M.D. *McMaster*, C.C.F.P.(E.M.), F.C.F.P.
Powell, L., B.Sc., M.Sc., M.D. *Memorial*
Power, L., M.D. *Memorial*, C.C.F.P.
Pugh, E., M.D. *Dalhousie*
Ralph, S., B.Sc., M.D. *Memorial*
Rashleigh, D., M.D. *Queen's*
Renouf, T., M.D. *Memorial*, C.C.F.P.(E.M.)
Roberts, S., M.Sc., M.D. *Manitoba*
Rogers, P., B.Sc., M.D. *Memorial*, C.C.F.P.(E.M.)
Ross, P., B.Sc. *U.N.B.*, M.D. *Memorial*, C.C.F.P.
Safar, M., M.B.Ch.B. *Baghdad*
Silver, K., B.Sc., M.D. *Dalhousie*, C.C.F.P., F.C.P.C.
Simon, L.M., M.D. *Dalhousie*
Sinnott Drover, A., B.Sc. *Memorial*, B.ScO.T. *Edinburgh*, M.B.Ch.B. *Bristol*
Sohn, M., M.D. *Alberta*, C.C.F.P.(E.M.)
Sparrow, C., M.D. *Memorial*, C.C.F.P., F.C.F.P.
Spencer, P., B.Sc., M.D. *Dalhousie*, C.C.F.P.
Squires, T., B.Med.Sc., M.D. *Memorial*, C.C.F.P.
St. Croix, E., M.D. *Memorial*, C.C.F.P.
Stevenson, R., M.D. *Memorial*
Sullivan, S., B.Sc.(Hons.), M.D. *Memorial*
Sutherland, L., B.Sc., M.D. *Dalhousie*, C.C.F.P.
Taor, R., M.R.C.P., L.R.C.S. *England*, F.R.C.S.
Telfer, C., M.D. *Memorial*
Tobin, C., B.Sc. *Dalhousie*, M.D. *Memorial*, C.C.F.P.
Vaillancourt, C., M.D. *Ottawa*, C.C.F.P.(E.M.), F.C.F.P.
Verge, J., M.D. *Memorial*, C.C.F.P.
Verheul, G., M.D. *University of British Columbia*, C.C.F.P.(E.M.), F.C.F.P.
Walter, A., B.Sc., B.M.B.S. *Australia*, C.C.F.P.
Way, T., M.D. *Memorial*, C.C.F.P.(E.M.)
White, J., B.Med.Sc., M.D. *Memorial*, C.C.F.P.
Wilson, K., M.D. *Memorial*
Wilson, S. M.D. *Memorial*
Woodman, M., M.D. *Memorial*, C.C.F.P.
Woolfrey, J., M.D. *Memorial*, C.C.F.P.
Woollam, G., M.D. *University of British Columbia*, C.C.F.P.
Young, M., B.Sc., B.M.Sc., M.D. *Memorial*, C.C.F.P.
Young, N., B.Sc., M.D. *Ottawa*, C.C.F.P.(E.M.), F.C.F.P.
Young , T., B.Sc.N., M.D. *Ontario*, C.C.F.P.
Zigante, N., M.D. *Memorial*, C.C.F.P.

Cross Appointed from Counselling Center
Cornish, P., B.Sc., M.A., Ph.D. *Saskatchewan*
Doyle, M., B.Sc.(Hons.) *Memorial*, Med.Ed.D. *Toronto*
Hurley, G., B.A. *Colorado College*, M.Sc., Ph.D. *Missouri*

Cross Appointed from School of Pharmacy
Bishop, L., Pharm.D. *Colorado*
Dillon, C., B.Sc.Pharm., A.C.P.R., Pharm.D. *Toronto*
Law, R., Pharm.D. *Buffalo*

Cross Appointed from Discipline of Psychiatry
Oldford, J., M.S.W., R.S.W. *Toronto*

Adjunct Professor
Harrop, V., Ph.D. *Massachusetts*

Honourary Research Professor
Worrall, G., B.Sc., M.B.B.S. *University of London, England,* MRCS, MRCGP, C.C.F.P., M.Sc. *McMaster*

Professional Associate
Cahill, D., Nurse Practitioner; Cross appointed by School of Pharmacy

Genetics

Associate Professor and Acting Chair
Fernandez, B., M.D. *Memorial*, FRCPC, FCCMG *Toronto*

Professor Emeritus
Ives, E.J., M.B., Ch.B. *Glasgow*, DCH *London*, MS *Michigan*, FRCPC

Professors of Genetics
Green, J., M.Sc. *British Columbia*, Ph.D. *Memorial*
Green, R.C., B.Sc., Ph.D. *Birmingham*

Associate Professor of Genetics
Young, T., B.Sc.(Hons.), Ph.D. *Memorial*; Winner of the President's Award for Outstanding Research, 2009

Assistant Professors of Genetics
Savas, S., B.Sc., M.Sc., Ph.D. *Bogazici, Turkey*
Turner, L., M.D.,FRCPC *Memorial*, FCCMG *British Columbia*
Woods, M., B.Sc., Ph.D. *Memorial*

Adjunct Professor of Genetics
Bassett, A., B.Sc., M.D. *British Columbia*, FRCPC

Cross Appointed from Laboratory Medicine
Han, F-Y, M.D. *Henan*, FCCMG *McGill*
Randell, E.W., Ph.D. *Memorial*, DCC, FCACP *Toronto*

Xie, Y-G., M.D. *Henan*, Dr.Med. *Zurich*, FCCMG *Queen's*

Cross Appointed from BioMedical Sciences
Dorward, A.M., B.Sc., Ph.D. *McMaster*

Cross Appointed from Clinical Epidemiology
Hodgkinson, K., B.Sc., M.Sc., Ph.D. *Memorial*

Cross Appointed From Medicine
Rahman, P., M.D. *Memorial*, M.Sc. *Toronto*, FRCPC; Winner of the President's Award for Outstanding Research, 2003-2004

Medicine

Professor and Chair
Gulliver, W.P., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC

Professor and Vice Chair
Goodridge, A.E., M.D. *Memorial*, FRCPC; Winner of the President's Award for Distinguished Teaching, 1998

Professores Emeritis
Bowmer, M.I., B.Sc., M.D., C.M. *McGill*, FRCPC
House, A.M., eHRU, M.D. *Dalhousie*, FRCPC
Pryse-Phillips, W.E.M., M.D. *London*, M.R.C.P., FRCPC, Neuro., M.R.C. Psych., F.R.C.P.

Professors of Medicine
Carayanniotis, G., B.Sc. *Patras*, Ph.D. *Toronto*; Joint appointment with BioMedical Sciences
Peters, S., M.D. *Memorial*, MPH *Milwaukee*, FRCPC

Professor of Medicine (Biochemistry)
Vasdev, S.C., B.Sc., M.Sc., Ph.D., D.V.M. *Punjab*; Cross appointment to BioMedical Sciences

Professor of Medicine (Cardiology)
Sussex, B.A., M.B.B.S. *Melbourne*, M.Sc. *Alberta*, FRCPC

Professor of Medicine (Endocrinology)
Kovacs, C.S., M.D., B.A. *Queen's*, FRCPC; Cross appointment to Obstetrics & Gynecology; Winner of the President's Award for Outstanding Research, 2002-2003

Professor of Medicine (Geriatrics)
Sclater, A., B.Sc. Windsor, M.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC

Professor of Medicine (Gastroenterology)
Fardy, J.M., B.Med.Sc., M.D. *Memorial*, M.Sc. *Western Ontario*, FRCPC

Professors of Medicine (Nephrology)
Barrett, B.J., M.B., B.Ch., B.A.O. *Cork*, M.Sc., FRCPC
Harnett, J., M.B., B.Ch., B.A.O. *Cork*, F.R.C.P.I., FRCPC
Parfrey, P., M.B., B.Ch., M.D. *Cork*, M.R.C.P., FRCPC; University Research Professor, Awarded 1995

Professor of Medicines (Neurology)
Ogunyemi, A.O., M.B., B.S. *Lagos*, FRCPC

Professor of Medicine (Respirology)
Fox, G.A., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC

Professor of Medicine (Rheumatology)
Rahman, P., M.D. *Memorial*, M.Sc. *Toronto*, FRCPC; Winner of the President's Award for Outstanding Research, 2003-2004

Professor of Medicine and Therapeutics (Part-time)
Ingram, D.W., M.B., B.Ch., B.A.O. *Queen's University, Belfast*, M.S.(Med.) *Minnesota*, M.C.F.P.(Honorary), F.R.C.P.(C), F.A.C.P.

Associate Professors of Medicine
MacDonald, S.M., B.Sc.N., M.D. *McMaster*, C.C.F.P.; Joint appointment with Family Medicine
Mugford, G., B.Sc., Ph.D. *Memorial*
Sun, G., M.D., Ph.D. *Shenyang*

Associate Professor of Medicine (Cardiology)
Connors, S., D.Phil. *Oxford*, M.D. *Memorial*, FRCPC

Associate Professors of Medicine (Endocrinology)
Galway, A.B., B.Med.Sc., M.D. *Memorial*, FRCPC; Cross appointment to Obstetrics & Gynecology
Joyce, C.J., M.D. *Dalhousie*, FRCPC; Cross appointment to Obstetrics & Gynecology

Associate Professors of Medicine (Gastroenterology)
Borgaonkar, M., B.Sc., M.D. *Memorial*, FRCPC
Bursey, F., B.Sc., M.D. *Memorial*, FRCPC

Associate Professors of Medicine (Hematology)
Grewal, K.S., B.Med.Sc., M.D. M.Sc. *Memorial*, FRCPC
Scully, M.F., M.B., B.A.O., B.Ch. *Dublin*, F.R.C.P.I., FRCPC

Associate Professors of Medicine (Nephrology)
Murphy, S., B.Sc. *St. Francis Xavier*, B.Med.Sc., M.D. *Memorial*, FRCPC
Paul, M., M.D. *Toronto*, FRCPC

Associate Professor of Medicine (Neurology)
Stefanelli, M., B.Sc., M.D. *University of British Columbia*, FRCPC

Associate Professor of Medicine (Rheumatology)
Hamilton, S.F., M.D. Memorial, FRCPC

Associate Professor of Nursing and Medicine
Way, C., B.N., B.A. *Memorial*, M.Sc.(A) *McGill*, Ph.D. *Virginia*

Assistant Professor of Medicine/Clinical Education
Lush, R.B., M.D. *Memorial*, FRCPC

Assistant Professors of Medicine
Berman, M.I., M.B., B.Ch. *South Africa*, FRC(SA)
Hodgkinson, K.A., B.Sc., M.Sc., Ph.D. *Memorial*
Iqbal, S.J., B.Sc., M.B., B.S. *Rawalpindi Medical College*, M.Sc. *Memorial*, FRCPC, ABIM
Trahey, J., B.Med.Sc., M.D. *Memorial*

Assistant Professor of Medicine (Critical Care)
Bandrauk, N.A., M.D., C.M. *McGill*, FRCPC, ABIM

Assistant Professor of Medicine (Endocrinology)
Chandurkar, V., M.B., B.S. *Bombay*, ABIM, ABEM

Assistant Professors of Medicine (Emergency Medicine)
Baggs, D., M.Sc., M.D. *Memorial*, FRCPC
Seviour, C., B.Sc., M.D. *Memorial*, FRCPC

Assistant Professors of Medicine (Gastroenterology)
Leonard, J.R., B.Sc., M.D. *Memorial*, FRCPC
McGrath, J.S., B.Sc., M.D. *Memorial*, FRCPC

Assistant Professors of Medicine (Hematology)
Bergstrom, D., B.Sc., M.D. *Memorial*, FRCPC
Hickey, J.M., B.Sc., M.D. *Memorial*, FRCPC
Tompkins, K.A., B.Med.Sc., M.D. *Memorial*, FRCPC

Assistant Professors of Medicine (Infectious Diseases)
Missaghi, B., B.Sc., M.D. *Saskatchewan*, FRCPC
Nguyen, C., B.Sc., M.Sc., M.D. *Toronto*, FRCPC

Assistant Professors of Medicine (Neurology)
Eustace, M.L., B.Sc., M.D. *Memorial*, FRCPC
Kelly, L.P., B.Sc.(Hons.), M.D. *Memorial*, FRCPC

Assistant Professors of Medicine (Nephrology)
Curtis, B.M., B.Sc. *McGill*, B.Med.Sc., M.D. *Memorial*, FRCPC
Pike, A.P., B.Sc. *McGill*, M.D. *Memorial*, FRCPC
Shik, J., B.Sc., M.D. *Toronto*, FRCPC

Assistant Professors of Medicine (Respirology)
Anwar, M.A.Q., M.B., B.S. *Rawalpindi Medical College*, ABIM, ABPM
Azher, T., M.B., B.S. *Allama Iqabqal*, MRCPI, CSCST, FCCP
Farrell, J., B.Sc., M.D. *Memorial*, FRCPC
Lockyer, J.M., B.Sc., M.Sc., M.D. *Memorial*, FRCPC

Assistant Professor of Pharmacy and Medicine (Clinical Epidemiology)
Twells, L., B.A. *Memorial*, M.Sc. *London*, Ph.D. *Memorial*

Clinical Professors of Medicine
Duguid, N., B.S., M.B., Ch.B. *Edinburgh*, M.R.C.P. (U.K.), FRCPC
Handa, S.P., MB, B.S. *Punjab*, FRCPC, DABIM, FACP, DABN
Young, R.W., M.D., C.M. *Dalhousie*, FRCPC

Clinical Professor of Medicine (Hematology) (Part-time)
Adams, G.B., M.D. *McGill*, FRCPC

Clinical Professor of Medicine (Neurology)
Jacob, J.C., M.B., B.S. *Vellore*, FRCPC

Clinical Associate Professors of Medicine
Al-Amri, A.S., M.D., FRCPC
Andreani, O., M.D. *Geonoa*
Atkinson, P., B.Sc., M.B., B.Ch., B.A.O., M.R.C.P. (U.K.) FCEM
Joshi, P.J., B.Sc., M.D. *Manchester*, ABIM, FRCPC
Landells, I.D.R., B.Med.Sc., M.D. *Memorial*, FRCPC
McGibbon, A., M.D. *Dalhousie*, FRCPC
MacCallum, G.C., M.D. *Dalhousie*, FRCPC
Rose, B.F., B.Med.Sc., M.D. *Memorial*, FRCPC
Stone, E., B.Sc., M.D. *Memorial*, FRCPC

Clinical Associate Professors of Medicine (Cardiology)
Bewick, D.J., B.Sc., M.D. *Dalhousie*, FRCPC
Marr, D.R., B.A. *New Brunswick*, M.D. *Dalhousie*, FRCPC
Williams, A., B.Med.Sc., M.D. *Memorial*, FRCPC

Clinical Associate Professor of Medicine (Geriatrics)
Jarrett, P.G., B.Sc., M.D. *Dalhousie*, FRCPC

Clinical Associate Professor of Medicine (Gastroenterology)
Cockeram, A.W., B.Sc., M.D. *Calgary*, FRCPC, ABIM, ABG

Clinical Associate Professors of Medicine (Rheumatology)
Grant, E., B.Sc., M.D. *Dalhousie*, FRCPC
Khraishi, M., M.B., B.Ch. *Cairo*, M.D. *Memorial*, FRCPC

Clinical Assistant Professors of Medicine
Al-Karain, M.Y., M.B., B.S. Jordan, ABIM, FRCPC
Alqdah, M.A., M.D. *Jordan*, FRCPC, FCCP
Anees, I., M.B., B.S. *Fatima Jinnah*, ABIM, ABN
Assi, H.I., M.D. *Lebanese University, Lebanon*
Baer, C., B.Sc.(Hons.) *McGill*, M.D. *Ottawa*, FRCPC, ABIM
Barry, C.A., B.Sc. *Western Ontario*, M.D. *Memorial*, FRCPC
Boodhun, M.S., M.B., B.S. *Karachi*
Borgaonkar, R.D., M.B., B.S. *India*, FRCPC
Costain, G.A., B.Sc. *New Brunswick*, M.D. *Dalhousie*, FRCPC
Daley, P.K., M.D. *Dalhousie*, FRCPC, DTM&H
Desai, D.K., M.B., Ch.B. *Univeristy of Natal*, FCP (SA)
Docherty, P.S., B.Sc., M.D. *Western Ontario*, ABIM, FRCPC
Dolan, S.P., B.Sc. *New Brunswick*, B.Med.Sc., M.D. *Memorial*, FRCPC, ABIM
Dow, G.C.K., B.Sc. *New Brunswick*, M.D. *Dalhousie*, M.Sc. *Manitoba*, FRCPC
Fong, P.M., B.Sc., M.D. *Dalhousie*, FRCPC
Furlong, M.B., B.Sc. *Dalhousie*, M.D. *Memorial*, FRCPC
Gedmintas, A., M.D. *London*, MBBS
Graham, J.D., M.D. *Toronto*, FRCPC
Hannaford, M., B.Sc., M.D. *Memorial*, FRCPC
Hayes, R., M.D. *Dalhousie*, FRCPC
Hiscock, J.G., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC
Hobbs, C., M.D., FRCPC
Jones, D.M. , B.Sc.(Hons.), M.Sc. (Neuroscience), M.D. *Memorial*, FRCPC
Kemp, K.M., B.Sc. *New Brunswick*, M.D. *Western Ontario*, ABIM, FRCPC
Kuriakose, R., MBBS *India*
Lightfoot, P.D., B.A., M.D. *Dalhousie*, FRCPC
MacLean, G.L., M.D. *Dalhousie*
MacSween, M.C., B.Sc.(Hons.), M.D. *Dalhousie*, FRCPC
McAvinue, T.G., M.B., Ch.B. *Glasgow*, M.D. *Memorial*, FRCPC
O'Brien, M.H., B.Sc. *Ireland*, M.B., B.A.O., B.Ch. *Cork*, FRCPC
Raju, M.R., B.Sc. *Dalhousie*, M.B., B.S. *Mysore*, FRCPC
Rebello, R., M.B., B.Ch. *Manchester*, M.R.C.P. (U.K.), FRCPC
Reddy, S.B., M.D. *Memorial*, FRCPC
Rhynold, E., M.D. *Sasketchewan*
Rubin, S.H., M.D. *Dalhousie*, FRCPC
Saeed, K., M.D. *Pakistan*
Sekhar, H.B.C., B.Sc., M.B., B.S., M.D. *India*, M.R.C.P. *United Kingdom*, FRCPC
Shaikh, A., M.D. *Mumbai, India*, ABIM
Sheehan, W., B.A., M.D., CCFP, FCFP
Sheridan, J.J., M.B., B.A.O., B.Ch. *Dublin*, M.R.C.P.I., FRCPC
Shrayyef, M.K., M.D., CCD
Sullivan, G., B.Sc., M.D. *University of Kentucky*, FRCPC
Sutherland, D., M.D. *Dalhousie*
Talbot, J., M.D. *Manitoba*, FRCPC
Tavenor, T., B.Med.Sc., M.D. *Memorial*, FRCPC
Toal, S.C., M.B., B.S., M.D. *Nagpur, India*, D.N.B. *Mumbai, India*
Tong, A., M.B., B.S. *Hong Kong*, FRCPC
Trudeau, C.M., B.Sc. *Dijon, France*, FRCPC
Vanhoutte, P., LRCPSI, M.B. *Ireland*, B.Ch., B.A.O.
Vasiliu, I.M.D., M.D. *Bucharest*, ABIM

Clinical Assistant Professors of Medicine (Cardiology)
Bessoudo, R., M.D. *Mexico*, FRCPC, FACC, FACP
Douglas, J.G., B.Sc. *King's College*, M.D. *Dalhousie*, FRCPC
Fagan, S., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC
Furey, M.U., M.D. *Memorial*, FRCPC
Lutchmedial, S.R., B.A. *Queens*, M.D., C.M. *McGill*, FRCPC
Paddock, V., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC
Pearce, N., B.Sc., M.D., M.Sc. *Memorial*, FRCPC
Teskey, R., B.Sc., *Carlton*, M.D. *Ottawa*, FRCPC

Clinical Assistant Professor of Medicine (Critical Care)
West, P.H.F., B.Sc., M.D. *Dalhousie*, FRCPC

Clinical Assistant Professors (Dermatology)
Baxter, K.L., B.N., B.Sc. *Dalhousie*, B.Sc. *New Brunswick*, B.Med.Sc., M.D. *Memorial*, FRCPC, ABD
Brown-Maher, T., B.Sc., M.D. *Memorial*, FRCPC, ABD
Clarke, G.I., M.D. *Memorial*, FRCPC
Hayes, R., B.Sc. *New Brunswick*, M.D. *Dalhousie*, FRCPC
Keeling, D.N., B.Sc. *New Brunswick*, M.D. *Dalhousie*, CCFP, FRCPC, FABD
Landells, I.D.R., B.Med.Sc., M.D. *Memorial*, FRCPC
Ohson, K., M.B., B.S. *Bombay*, M.D. *Memorial*, FRCPC
Pirzada, S.M., M.B.B.S., *Karachi*
Tomi, Z., M.B., B.Ch. *Alfata*, M.R.C.P.(UK), FRCPC
Teskey, R., B.Sc. *Carlton*, M.D. *Ottawa*, FRCPC

Clinical Assistant Professor of Medicine (Endocrinology)
Dornan, J.M., B.Med.Sc., M.D. *Memorial*, FRCPC

Clinical Assistant Professor of Medicine (Gastroenterology)
Schweiger, F., B.Sc.(Hons.) *Windsor*, M.D. Toronto, FRCPC, ABIM, FACG, FACP

Clinical Assistant Professors of Medicine (Geriatrics)
MacDonald, E., B.Sc., M.D. *Dalhousie*, FRCPC
MacNeil, D., B.Sc.(Hons.) *Dalhousie*, M.Sc., Ph.D., M.D. *Alberta*, FRCPC

Clinical Assistant Professor of Medicine (Infectious Diseases)
Thompson, B., B.A. *Toronto*, B.Sc.(Hons.), M.D. *Western Ontario*, FRCPC

Clinical Assistant Professors of Medicine (Nephrology)
Gogan, N., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC
MacKinnon, M., B.Sc.(Hons.), M.Sc., M.D. *Dalhousie*, FRCPC
Pippy, C., B.Sc. *McGill*, M.D. *Dalhousie*, FRCPC
Sohi, P.S., B.Sc., B.A.Sc. *Ottawa*, M.A.Sc. *Waterloo*, M.D., C.M. *McGill*, FRCPC

Clinical Assistant Professors of Medicine (Neurology)
Hoppe, B.J., M.D., Ph.D. *Warsaw*
Mumtaz, S., M.B., B.S. *Dow Medical College*, A.B.P.N.
Scott, J.L., B.Sc., M.D. *Memorial*, FRCPC

Clinical Assistant Professor of Medicine (Physical Medicine & Rehabilitation)
Forgeron, P., B.Sc.(Hons.) *Dalhousie*, M. Sc. *Queen's*, M.D. *Memorial*, FRCPC
Reid, P.H., B.Sc. *Memorial*, M.D. *Dalhousie*, MRCPC
Woolfrey, P., B.Sc. *Acadia*, B.Ed., B.Med.Sc., M.D. *Memorial*, FRCPC

Clinical Assistant Professors of Medicine (Respirology)
Bishop, G.W., B.Sc. *Prince Edward Island*, M.D. *Waterloo*, FRCPC
Joshi, P.C., M.B., B.S. *Grants Medical College*, M.Sc. *Jefferson Medical College*, FRCPC, ABIM

Clinical Assistant Professors of Medicine (Rheumatology)
Sadowska, E.D., M.D. *Bialystok*, FRCPC
Searles, G.R., B.Sc. *New Brunswick*, M.D. *Dalhousie*, FRCPC

Professioal Associates
Dicks, E.L., R.N., B.N., ACNP, M.Sc., Ph.D.
Hawboldt, J., B.S.P., ACPR, Pharm.D.
Kelly, D., B.Sc., Pharm.D.
MacDonald, D., M.Sc., Ph.D.
Watkins, K., Ph.D. *Memorial*; Cross appointed from Pharmacy

Obstetrics & Gynecology

Associate Professor and Chair
O'Grady, T.F., M.D. *Memorial*, FRCSC

Professor Emeritus
Walley, R.L., M.B., B.S. *London*, M.P.H. *Harvard*, L.R.C.P., F.R.C.O.G., FRCSC

Professor of Obstetrics & Gynecology
Crane, J.M., M.D. *Memorial*, FRCSC; Winner of the President's Award for Outstanding Research, 2004-2005

Associate Professors of Obstetrics & Gynecology
Dawson, L., M.D. *Memorial*, FRCSC
Gill, A., M.B., B.S. *India*, FRCSC, FACOG
Popadiuk, C., M.D. *Toronto*, FRCSC

Assistant Professors of Obstetrics & Gynecology
Bajzak, K., M.D. *Memorial*, FRCSC, FACOG
Delaney, T., M.D. *Memorial*, FRCSC
Healey, S., M.D. *Memorial*, FRCSC
Parsons, S., M.D. *Memorial*, FRCSC
Kum, F., M.D. *Ireland*, FRCSC, DABOG
Power, P., M.D. *Memorial*, FRCSC
Strand, T., M.D. *Alberta*, FRCSC

Cross Appointed from Medicine
Kovacs, C.S., M.D. *Queen's*, FRCPC; Winner of the President's Award for Outstanding Research, 2002-2003

Cross Appointed from Laboratory Medicine
Han, F.Y., M.D. *Henan*, FCCMG, *McGill*

Clinical Associate Professors of Obstetrics and Gynecology
Bartellas, E., M.D. *Israel*, FRCSC

Clinical Assistant Professors of Obstetrics & Gynecology
Bernadin, J., M.D. *Montreal*, FRCSC
Brown, K., M.D. *Memorial*, FRCSC
Colford, D., M.D. *Dalhousie*, FRCSC
Cook, C., M.D. *Memorial*, FRCSC
Desrosiers, K., M.D. *Sherbrooke*, FRCSC
Gillespie, K., M.D. *Dalhousie*, FRCSC
Healey, C., M.D. *London*, FRCSC
Kennedy, R., M.D. *Memorial*, FRCSC
Kogan, D., M.D. *Autonomous*, FRCSC
Kravitz, H., B.A., B.S., M.A. *Penn.*, M.D. *Memorial*, FRCSC
LeBlanc, C., M.D. *Montreal*, FRCSC
Lord, H., M.D. *West Indies*, FRCSC
Murphy-Kaulbeck, L., M.D. *McMaster*, FRCSC
Ojuawo, A., M.D. Obafemi Awolowo, FRCSC
Olufowobi, O., M.B., B.S., M.Med.Sci., MRCOG/CCT, LMCC
Patterson, L., M.D. *Dalhousie*, FRCSC
Pike, C., M.D. *Memorial*, FRCSC
Reardon, E., M.D. *Dalhousie*, FRCSC
Sanderson, F., M.D. *McMaster*, FRCSC
Satya, S.S., M.D. *Austraila*, FRCSC
Sheppard, K., M.D. *Memorial*, FRCSC
Trites, K., M.D. *Dalhousie*
White, J., M.D. *Memorial*, FRCSC

Professional Associate
Murphy, P., M.Sc. *Memorial*

Laboratory Medicine

Professor and Chair of Laboratory Medicine (Forensic)
Avis, S., B.Med.Sc., M.D. *Memorial*, FRCPC

Professor of Laboratory Medicine (Immunology)
Grant, M., B.Sc., M.Sc. *British Columbia*, Ph.D. *McMaster*

Professor of Laboratory Medicine (Molecular Genetics)
Xie, Y.G., M.D. *Henan*, Dr.Med. *Zurich*, FCCMG *Queen's*; Cross appointments with the Discipline of Medicine, the Discipline of Pediatrics and the Discipline of Genetics

Associate Professor of Medicine & Laboratory Medicine (Hematology)
Whitman, L.A., B.Sc. *McGill*, M.D. *Memorial*, FRCPC

Associate Professor of Laboratory Medicine (Pathology)
Morris-Larkin, C., M.D. *Memorial*, FRCPC

Associate Professor Laboratory Medicine (Biochemistry)
Randell, E.W., Ph.D. *Memorial*, DCC, FCACB *Toronto*; Cross appointments with the Discipline of Genetics, the School of Pharmacy and the Department of Biochemistry

Associate Professor of Laboratory Medicine (Cytogenetics)
Han, F.Y., M.D. *Henan*, FCCMG *McGill*, Cross appointments with the Discipline of Pediatrics, the Discipline of Obstetrics & Gynecology and the Discipline of Genetics

Assistant Professors of Laboratory Medicine
Makretsov, N., M.D. *Far Eastern State Medical, Khabarovsk, Russian Federation*, Ph.D. *N.N. Blokhim Cancer Research Centre of Academy of Medical Sciences, Moscow, Russian Federation*, FRCPC
Pirzada, A., F.Sc., H.Sc., M.D. *Karachi*
Taher A., M.D., FRCPC, FCAP

Assistant Professor of Laboratory Medicine (Neuropathology)
Barron, J., M.Sc., M.D. *Memorial*, FRCPC

Clinical Associate Professor of Laboratory Medicine
Pushpanathan, C., M.B., B.S. *India*, FRCPC

Clinical Assistant Professors of Laboratory Medicine
Afrouzian, M., M.D., FABP, FCAP, *Tehran University, Iran*, Nephropathology clinical & research fellowships, A.F.I.P. *University of Alberta*, *University of North Carolina*
Aljerian, K., MBBS *King Saud*, MHSc, FRCPC *Toronto*, Fellowship of Forensic Pathology, Fellowship of Neuropathology *McMaster*
Anwar, S., M.D., ECFMG
Cook, D.M., B.Med.Sc., M.D. *Memorial*, FRCPC, FCAP
Denic, N., M.Sc., M.D., Ph.D. *Belgrade*, FRCPC
El-Gohary, Y., M.D., FCAP
Gallagher, B., M.Med.Sc, M.D. *Dublin*, FRCPC, FCAP
Ghosh, C., MBBS, M.D., DNB, FACP, FRCPC
Maksymov, V., M.D., Ph.D., FRCPC
Wadden, P., M.D., B.Med.Sc., B.Sc. *Memorial*, FRCPC

Clinical Lecturer of Laboratory Medicine (Biochemical Pathology)
Varghese, A., B.Sc., M.Sc. *India*

Adjunct Professor
Madhavankutty, K.M., B.Pharm. *B.H.U. India*, Ph.D. *London*, *England*, FCACG

Clinical Associate Professors of Laboratory Medicine (New Brunswick)
Flick, J.T., M.D., Ph.D.
Godlewski, M., M.D., M.Sc., FRCPC
Hussein, M., M.B.C.H.B., M.Sc. Ph.D., FRCPath *European Board of Pathology*, Diploma in Dermatopathology (ICDP)
Morava-Protzner, I., M.D., Ph.D., FRCPC
Taylor, S., Ph.D., FCCMG (Molecular Genetics)

Clinical Assistant Professors of Laboratory Medicine (New Brunswick)
Acar, B., M.D.
El Bailey, M., M.D.
Hossain, M., M.D.
Obenson, K., MBBS, DABPATH, FRCPC
O'Brien, A., B.Sc.(Chemistry), B.MedSc., M.D.
Protzner, K., M.D., FRCPC
Rahmeh, T., M.D.
Rajappannair, L., M.D.
Umar, I., M.D.

Oncology

Professor and Chair
Saltman, D.L., M.D. *Memorial*, Ph.D. *Edinburgh,* FRCPC

Associate Professor of Oncology
Laing, K., M.D. *Memorial*, FRCPC

Clinical Associate Professor of Oncology (Radiation Oncology)
Ganguly, P., M.B., B.S. *Calcutta*, D.M.R.T. *London*, FFRCSI

Clinical Assistant Professors of Oncology (Radiation Oncology)
Greenland, J., M.D. *Memorial*, FRCPC
Kamran, A., M.B., B.S., FRCSI, FFRCSI, FRCPC
Norman, A., M.D. *Manitoba*, FRCPC

Pochini, C., B.A., M.D. *Memorial*, FRCPC
Sathya, J., DRM, M.B.B.S., FRCPC *India*, FRCR *England*
Stuckless, T., M.D., *Memorial*, FRCPC
Tompkins, B., M.D. *Memorial*, FRCPC

Clinical Assistant Professors Oncology (Medical Oncology)
Ahmad, C., M.B., B.S., FRCPC
McCarthy, J., M.D. *Memorial*, FRCPC
Powell, E., B.A., B.Sc., M.D. *Memorial*
Rorke, S., M.D. *Memorial*, FRCPC
Seal, M., B.Sc.(Hons.), Dip.Clin.Epi., M.D. *Memorial*, FRCPC
Siddiqui, J., M.B., B.S., FRCPC

Clincal Assistant Professor Oncology (Palliative Care)
O'Shea, F., M.B., Bc.H., BAO, LRCPSI & NUI, ABHPM *Ireland*

Clinical Assistant Professor Oncology (Pharmaceutical Sciences)
Edwards, S., B.Sc.(Pharm.) *Memorial*, Pharm.D. *University of Washington*

Cross Appointed from Genetics
Savas, S., B.Sc., M.Sc., Ph.D. *Bogazici, Turkey*

Cross Appointed from Biomedical Sciences
Gendron, R. , B.Sc., Ph.D. *McGill*
Larijani, M., Ph.D. *Toronto*

Cross Appointed from Surgery
Hogan, M., B.Sc., M.D., FRCSC *Memorial*, M.Med. *University of Dundee*

Pediatrics

Associate Professor & Chair
Vardy, C., M.D. *Memorial*, FRCPC

Professor of Pediatrics
Cooper, A.R., B.Sc. *Memorial*, M.D. *Dalhousie*, FRCPC

Professor of Pediatrics (Neonatology)
Andrews, W., B.Sc. *Memorial*, M.D. *Dalhousie*, FRCPC

Associate Professors of Pediatrics
Barter, O.J., M.D. *Memorial*, FRCPC
Bridger, T., M.D. *Memorial*, FRCPC
Buckley, D., M.B., Ch.B. *Sheffield*, F.R.A.C.P. *Australia*, FRCPC
Curtis, J.A., M.B., B.Ch., B.A.O. *Cork*, M.R.C.P. *UK*, FRCPC
Drover, A., M.D. *Memorial*, FRCPC
Morris, R.F., M.D. *Memorial*, FRCPC
Newhook, L.A., M.D. *Memorial*, FRCPC

Assistant Professors of Pediatrics
Critch, J., M.D. *Memorial*, FRCPC
Dancey, P., M.D. *Memorial*, FRCPC
Deshpandey, A.K., M.D. *Gandhi Medical College*, MBBS
Dominic, A., M.D. *Memorial*, FRCPC
Doyle, T., M.D. *Memorial*, FRCPC
Hickey, D., M.D. *Memorial*, FRCPC
Martin, J., M.D. *Memorial*
Moore, S., M.B., Ch.B. *Edinburgh*, FRCPC
O'Brien, C., M.D. *Memorial*, FRCPC
O'Dea, J., M.D. *Memorial*, FRCPC
Porter, R., M.D. *Memorial*
Sathya, P., M.D. *McMaster*, FRCPC
Shah, S., M.B., Ch.B. *Makerere*, M.Med.(Pediatrics), FRCPC

Assistant Professor of Pediatrics (Research)
Chafe, R., M.A., Ph.D. *Memorial*

Professor (Psychology)
Adams, R.J., B.A. *Concordia*, Ph.D. *McMaster*

Associate Professor (Psychology)
Courage, M.L., B.A. *Memorial*, M.Sc. *Alberta*, Ph.D. *Memorial*

Clinical Associate Professors of Pediatrics
Cheriyan, M., M.B.B.S. *Nagpur*, MRCP *(UK)*, FRCPC
Kamra, P., M.B., B.S. *Punjab*, FRCPC
Muram, B., M.B., B.S. *India*, FRCPC
Hamed, A., M.B., B.Ch. *Cairo*, M.Sc.(Immunology) *Memorial*, FRCPC

Clinical Assistant Professors of Pediatrics
Akhtar, Y., M.B.B.S. *University of the Punjab - Fatima Jinnah*, FRCPC
Aladetoyinbo, A. MBBS *Nigeria*
Alam, M., M.B.B.S. *Pakistan*, FRCPC
Alexander, W.J., M.D. *Memorial*, FRCPC
Bowes, L., M.D. *Memorial*, FRCPC
Bula, L., M.D.
Chrappa, J., M.D. *Bratislava*, FRCPC
Engelbrecht, W., M.B., Ch.B. *University of Orange Free State*
Feener, T., M.D. *Memorial*
Goodyear, L., M.D. *Memorial*, FRCPC
Guntamukkala, P., M.B.B.S. *India*, FRCPC
Hand, J., M.D. *Memorial*, FRCPC
Healey, A., M.D. *Memorial*, FRCPC
Henderson, K., M.D. *Dalhousie*, FRCPC
Hughes, D.M., M.D., FRCPC
Javed, F., M.D. *Pakistan*
Kelly, M., M.B., B.Ch., BAO *Dublin*, FRCPC
Kemp, I., M.B., Ch.B. *South Africa*, FRCPC
Kwa, P.G., M.D. *Taiwan*, FRCPC
Lambert, T.B., M.D. *Memorial*, FRCPC
Luscombe, S., M.D. *Memorial*
Marshall, I., M.D. *Memorial*
McKenna, M., M.D. FRCPC
Meek, D.C., M.B., B.Ch. *Cardiff (Wales)*, FRCPC
Murphy, A., M.D., FRCPC, FAAP
Nicholson, M., M.D., FRCPC
Ojay, C.R. *West Indies*
Paras, E., *Istanbul (Turkey)*, FRCPC
Reid, D., B.Sc. *Dalhousie*, M.D. *Memorial*, FRCPC
Sanderson, S., *Toronto*, FRCPC
Stewart, W., M.D. *Calgary*, FRCPC
VanGelder, R.J., M.D. *Amsterdam*
Vivian, L., M.D. *Memorial*, FRCPC
Zuin, C., M.B.B. *Ch. National University of Cordoba*, FRCPC

Clinical Lecturers of Pediatrics
Bessell, C., R.N., B.Ed.(Voc.) *Memorial*
Rolfe, J., B.N. *Memorial*, M.Sc. *New York*
White, S., B.N. *Memorial*

Cross Appointed from Laboratory Medicine
Han, F.Y., M.D. *China*
Xie, Y.G, M.D. *Hanan*, Dr.Med. *Zurich*

Cross Appointed from Medicine
Hodgkinson, K., Ph.D. *Memorial*
Landells, I.D.R., B.Med.Sc., M.D. *Memorial*, FRCPC

Cross Appointed from Surgery
Price, D.I., B.Med.Sc., M.D. *Memorial*, FRCSC

Adjunct Professors
Acott, P., B.Sc. *New Brunswick*, M.D. *Dalhousie*
Crocker, J., B.Sc. *King's College*, M.D. *Dalhousie*, FRCPC

Professional Associates of Pediatrics
Kitta, A.
Murphy, P.

Psychiatry

Professor and Chair
Callanan, T.S., B.Sc., M.D. *Memorial*, Dip.Psych. *McGill*, FRCPC; Cross appointed to Counselling Centre

Professor
Muhammad, A., M.B.B.S. *Dow*, MRCPsych, FRCP, Ph.D. *Anglia University*, BCPsych, DPM, DCP, MCPS

John Clinch Professor of Medical Humanities and History of Medicine
Connor, J., B.Sc. *Guelph*, M.A. *Western Ontario*, M.Phil., Ph.D. *Waterloo*

Associate Professor (Medical Humanities)
Connor, J., B.A. *Guelph*, M.A. *York*, M.Phil. *Waterloo*, Ph.D. *Western Ontario;* Cross appointed to Department of History

Associate Professors of Psychiatry
Adey, T., M.D. *Memorial*, FRCPC
Craig, D.F., B.Sc. *McGill*, M.D. *Alberta*, FRCPC
Hasnain, M., M.B.B.S. *Rawalpindi Medical College*, DABPN
LeDrew, K., M.D. *Memorial*, FRCPC

Associate Professors of Child and Adolescent Psychiatry
St. John, K., B.Sc. *Mount Allison*, B.Med.Sc., M.D. *Memorial*, FRCPC
White, H.P., B.Sc., M.D. *Memorial*, FRCPC

Associate Professor of Forensic Psychiatry
Ladha, N.B., M.B. *Dublin*, FRCPC, DABPN

Associate Professor of Psychiatry (Clinical Epidemiology)
Mugford, G., B.Sc., Ph.D. *Memorial*

Associate Professor (Cross Appointment from Pharmacy)
Phillips, L., B.Sc.(Pharm.) *Memorial*, Pharm.D. *British Columbia*

Associate Professor (Cross Appointed from Family Medicine)
Tarrant, G.M., M.D. *Memorial*, CCFP, FCFP, CGPP

Associate Professor (Joint Appointment with Biological Psychiatry)
Chen, X., M.B. *China*, Ph.D. *Cambridge*

Assistant Professors of Psychiatry
Hearn, T., B.A., M.Sc., M.D. *Memorial*, FRCPC
Luscombe, K., M.D. *Memorial*, FRCPC
Lynch, S., B.Sc., M.D., *Memorial*, FRCPC
Noble, S., M.D. *Queen's*, FRCPC
Penney, A., M.D. *Memorial*, FRCPC
Radu, G., M.D. *Carol Davila University*, M.B.A. *University of Liverpool*, FRCPC

Assistant Professor of Child and Adolescent Psychiatry
Bonnell, W., B.Sc., M.D. *Memorial*, FRCPC

Assistant Professors (Cross Appointments from Psychology)
Francis, S., B.A., M.A., Ph.D. *University of Hawaii*
Mezo, P., B.Sc., Ph.D. *University of Hawaii*

Adjunct Professor of Psychiatry
Karagianis, J.L., B.Med.Sc., M.D. *Memorial*, FRCPC

Clinical Associate Professors of Psychiatry
Angel, J., M.D. *Memorial*, FRCPC
Hogan, M.W., B.A. *St. Mary's*, M.D. *Dalhousie*, FRCPC
Noseworthy, G., M.D. *Memorial*, FRCPC

Clinical Associate Professor of Psychiatry (New Brunswick)
Morehouse, R., M.D. *Dalhousie*, FRCPC

Clinical Associate Professors of Child and Adolescent Psychiatry
Hassuk, B., M.D. *University of Vermount College of Medicine*, DABPN
Maddigan, B., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC

Clinical Assistant Professors of Psychiatry
Attwood, D., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC
Brace, A.W., M.D. *Memorial*, FRCPC
Broaders, M., M.D. *Memorial*, FRCPC
Caravan, C., M.D. *Memorial*, FRCPC
Collins, D., B.Med.Sc., M.D. *Memorial*, FRCPC
Dolezalek, J., M.D. *Comenius University*, FRCPC
Gill, J., B.Sc., M.Sc., *McGill*, M.D. *Memorial*, FRCPC
Hickey, C., B.Sc., M.D. *Memorial*, FRCPC
Hogan, K., M.D. *Memorial*, FRCPC
Kennedy, N., M.D. *Memorial*, FRCPC
MacLaughlin, D., B.Med.Sc., M.D. *Memorial*, FRCPC
Martins, I., B.Med.Sc., M.D. *Memorial*, FRCPC
Mekawy, M., M.B., Ch.B. *Alexandria University, Egypt*, DABPN
Patel, S., MB BCh. BAO, *University College Dublin*, FRCPC
Porter, A., M.D. *Memorial*., FRCPC
Pratt, D., B.Sc., M.D. *Memorial*, FRCPC
Rayel, M., M.D. *La Salle University, Phillippines*, DABPN
Sayeed, R., M.B.B.S. *Dow Medical College*, DABPN, FRCPC
Vokey, K., M.D. *Memorial*, FRCPC
Walsh, C., M.D. *Memorial*, FRCPC
Weiner, M., M.D. *Poland*, FRCPC
Wheeler, L., B.Sc., M.D. *Memorial*, FRCPC
Young, N., M.B.A., M.D. *Memorial*

Clinical Assistant Professor (Neuropsychiatry)
Mirolo, H., M.D. *Catholic University of Cordoba*

Clinical Assistant Professors of Psychiatry (New Brunswick)
Aicher, J., BES(Hons.) *Waterloo*, M.D. *McMaster*, MPH, MCRP *University of Califronia at Berkeley*
Doucet, J., M.D. *Memorial*, FRCPC
John, O.E., B.Sc. , M.B.B.S. *Trivandrum Medical College, India*, FRCPC
Joshi, V.S., MB.B.S. *Bombay University, India*
Laurencic, D.G., M.D. *University of Belgrade School of Medicine*, DABPN
Onuora, A.N., M.B.B.S. *University of Ibadan, Nigeria*, MRCPsych
Potter, L., B.Sc., M.D. *Memorial*, FRCPC
Rowe, H.S., M.D. *University of Glasgow*, FRCPC
Satyanarayana, S., B.Sc.(Hons.) *Mount Allison*, M.D. *Dalhousie*, FRCPC
Shamsuddin, S., MBBS *Bangalore Medical College*
Smith, W.S., M.D. *Dalhousie*, FRCPC
Sullivan, G., B.Sc., M.D. *University of Kentucky*, FRCPC
Thompson, S., B.Sc., M.D. *Dalhousie*, FRCPC
Tran, S., M.D. *Dalhousie*, FRCPC
Unoh, E., M.B.B.S. *University of Ibadan, Nigeria*, MRCPsych
Yuzda, E., B.Sc., M.Sc., M.D. *Calgary*, FRCPC

Clinical Assistant Professors of Child and Adolescent Psychiatry
McWilliam-Burton, T., M.D. *Memorial*, FRCPC
Rajan, R., M.B.B.S. *Mangalore*
Reid, C., M.D. *Memorial*, FRCPC
Snelgrove, C., M.D. *Memorial*, FRCPC

Clinical Assistant Professor (Clinical Psychology)
Khalili, H., B.S. *Tehran*, M.S., M.B.A. *Kansas*, Ph.D. *Iowa*

Clinical Lecturers (Clinical Psychology)
Hillier, C., B.A. *Manitoba*, M.Sc. *Acadia*
Rodgers, G., M.Sc. *Memorial*
Simpson, M., B.Sc.(Hons.), M.Sc. *Memorial*
Woodrow, J., B.Sc.(Hons.), M.Sc. *Memorial*

Clinical Lecturer (Social Work)
Oldford, J., B.A. *Memorial*, M.Sc. *Toronto*

Radiology

Professor and Chair
Cramer, B.C., M.B., B.Ch., M.R.C.P. *(UK)*, F.R.C.R. *(UK)*, FRCPC

Professor of Radiology
Kendall, E., B.Sc., M.Sc. *Dalhousie*, Ph.D. *Guelph*

Clinical Professor of Radiology (Nuclear Medicine)
Wesolowski, C., M.D. *Poland*, FRCPC

Clinical Associate Professors of Radiology
Bartlett, P.J., M.D. *Memorial*, FRCPC
Bhatia, R.S., M.D. *McMaster*, FRCPC
Collingwood, P.W., M.D. *Memorial*, FRCPC
Jeon, P.M., M.D. *Memorial*, FRCPC
Wadden, N.A.T., B.Sc., M.D. *Memorial*, FRCPC

Clinical Associate Professor of Radiology (Nuclear Medicine)
Hollett, P., M.D. *Memorial*, FRCPC, A.B.N.M.

Clinical Assistant Professor of Radiology (Combined Diagnostic Radiology and Nuclear Medicine)
Jefford, C., M.D. *Memorial*, FRCPC, A.B.N.M.

Clinical Assistant Professors of Radiology
Bailey, G.A., M.D. *Memorial*, FRCPC
Battcock, S.G., M.D. *Memorial*, FRCPC
Colbert, D., M.D. *Memorial*, FRCPC
Cook, R., M.D. *Memorial*, FRCPC
Efford, E., M.D. *Memorial*, FRCPC
Gullipalli, R., M.B.B.S., M.R.C.S., F.R.C.R.
Hache, N., M.D. *Memorial*, FRCPC
Hapgood, C., M.D. *Memorial*, FRCPC
Harley, R.J., M.D. *Memorial*, FRCPC
Harris, S.R., M.D. *Memorial*, FRCPC
Heale, R., M.D. *Memorial*, FRCPC
Higgins, G.C., B.Sc. *Memorial*, M.D. *Dalhousie*, FRCPC
Hopkins, J.G., M.D. *Memorial*, FRCPC
Jackman, S., M.D. *Memorial*, FRCPC
Jenkins, S., M.D. *Memorial*, FRCPC
Lombard, J., M.D. *Memorial*, FRCPC
Major, A.C., M.D. *Memorial*, FRCPC
Martin, B., M.B., B.Ch., B.A.O. *N.U.I.*, FRCPC
Mercer, E., M.D. *Memorial*, FRCPC
O'Keefe, J.B., M.D. *Memorial*, FRCPC

Peckham, D., B.Med.Sc., M.D. *Memorial*, ABR
Pickles, A., M.D. *Memorial*, FRCPC
Pike, E.J., M.D. *Memorial*, FRCPC
Pilgrim, B., M.D. *Memorial*, FRCPC
Rendell, M.J., M.D. *Memorial*, FRCPC
Sala, E., B.Sc., M.D. *Memorial*, FRCPC
Walsh, E.A., M.D., B.Ch., B.A.O. *N.U.I.*, M.R.C.P.I. *Ireland*, L.M.C.C., FRCPC

Surgery

Associate Professor and Chair
Boone, D.C., M.D. *Memorial*, FRCSC

Professor of Surgery
Pollett, W.G., B.Sc., M.D. *Dalhousie*, FRCSC

Associate Professors of Surgery
Gardiner, P., B.Sc., M.D. *Dalhousie*, FRCSC
Pace, D., B.Sc. *Acadia*, M.B.A. *Dalhousie*, M.D. *Memorial,* FRCSC
Stone, N.C., B.Med. Sc., M.D. *Memorial*, FRCSC

Assistant Professors of Surgery
Furey, A., B.Sc., M.D., M.Sc. *Memorial*, FRCSC
Hogan, M.P., B.Sc., M.D. *Memorial*, M.Med.Ed. *Dundee*, FRCSC; Cross appointed to Discipline of Oncology
Mathieson, A., B.Sc.(Hons.) *Dalhousie*, M.D. *Memorial*, FRCSC
O'Dea, F., B.Sc. *Mt. Allison*, M.D. *Memorial*, FRCSC
Wells, M.K., B.Sc.(Chem), B.Med.Sc., M.D. *Memorial*, FRCSC

Clinical Professors of Surgery
Fitzgerald, G., M.D. *Toronto*, FRCSC
Maroun, F.B., M.D. *Lebanon*, FRCSC

Clinical Professors (Part Time)
Heughan, C., B.A.(Hons.), M.B., B.Chir. *Cambridge*, FRCSC
Kwan, A., B.Sc., M.D., C.M., M.Sc. *McGill*, FRCSC, F.A.C.S.
Payton, B.W., M.B., B.S., Ph.D. *London*

Clinical Associate Professors of Surgery
Felix, W.A., M.D. *Dalhousie*, FRCSC
Guy, J.R.F., M.D. *Dalhousie*, FRCSC

Clinical Associate Professor of Surgery (Ophthalmology)
Conway, V., B.Sc. *Memorial*, M.D. *Dalhousie*, FRCSC

Clinical Associate Professors of Surgery (Otolaryngology)
Burrage, K., B.Sc., M.D. *Memorial*, FRCSC
Edgecombe, J.M., M.D., C.M. *Dalhousie*, FRCSC
Smith, T.J., M.D. *Dalhousie*, FRCSC

Clinical Associate Professor of Surgery (Pediatrics)
Price, D., B.Med.Sc., M.D. *Memorial*, FRCSC

Clinical Associate Professor of Surgery (Plastics)
Jewer, D.D., B.Sc.(Hons.), B.Med.Sc., M.D. *Memorial*, FRCSC
O'Brien, J., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCSC

Clinical Associate Professor of Surgery (Urology)
Best, L., M.D. *Autonoma de Guadalajara*, FRCSC

Clinical Associate Professors of Surgery (Orthopedics)
Lewis, B.D., B.Sc., M.D. *Memorial*, FRCSC
Noftall, F., B.Med.Sc., M.D. *Memorial*, FRCSC
Rockwood, P., B.Med.Sc., M.D. *Memorial*, FRCSC
Squire, D.S., B.Sc., M.D. *Memorial*, FRCSC

Clinical Associate Professor of Surgery (Neurosurgery)
Murray, G.P., B.Sc., M.Sc., B.Med.Sc., M.D. *Memorial*, FRCSC

Clinical Assistant Professors of Surgery (Orthopedics)
Abraham, E.P., B.Sc., M.D. *Dalhousie*, FRCSC
Connolly, S.H., B.Sc., M.D. *Dalhousie*, FRCSC
Deane, R.H., M.B., Ch.B. *Capetown*, FRCS *Glasgow*, FRCS *South Africa*, FRCSC
Fletcher, J.A., B.Sc., B.Ed., M.D. *Dalhousie*, FRCSC
Hogan, T.G., B.Sc., M.D. *Memorial*, FRCSC
Jackman, H., B.Sc. *Mount Allison*, M.D. *Memorial*, FRCSC
Kerr, D.A., B.Sc., M.D. *Dalhousie*, FRCSC
Manson, N.A., B.Sc.(H.Kin.), B.Sc.(Med.), M.D. *Dalhousie*, FRCSC
Martin, R., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCSC
Russell, R., B.Med.Sc., M.D. *Memorial*, FRCSC
Sahajpal, V., B.Sc. *UPEI*, M.D. *UWO*, FRCSC
Trenholm, J.A.I., B.Sc., M.D. *Dalhousie*, FRCSC
Tumilty, J., B.Sc., M.D. *Dalhousie*, FRCSC
Wagg, J.P., B.Sc., M.D. *Dalhousie*, FRCSC

Clinical Assistant Professors of Surgery
Akhtar, J., MBBS *Khyber Medical College*, FRCS (Ireland)
Attard, J.P., B.Sc.(Hons.), M.D. *Dalhousie*, FRCSC
Blackwood, P.J., B.Med.Sc., M.D. *Memorial*, FRCSC
Browne, G.N., B.Med.Sc., M.D. *Memorial*, FRCSC
Cox, C.R., B.MSc., M.D. *Memorial*, FRCSC
Farrell, R, B.Sc., M.D. *Memorial*, FRCSC
Fowler, R., B.Med. Sc., M.D. *Memorial*, FRCSC
Heneghan, P.D., B.Sc., M.D. *Memorial*, FRCSC
Johnston, B., B.Sc., M.D. *Dalhousie*, FRCSC
Mackenzie, D.S, B.Med.Sc., M.D. *Alberta*, FRCSC
Mann, C., B.Sc. *Mount Allison*, M.D. *Dalhousie*, FRCSC
Melvin, K., B.Sc. *Memorial*, M.D. *Dalhousie*, FRCSC
Mowatt, J.A., B.Sc. *Kings College*, M.D. *Dalhousie*, FRCSC
O'Driscoll, M.F., B.Sc. *St. Francis Xavier*, B.Ed., B.Eng, B.Med.Sc., M.D. *Memorial*, FRCSC
Roger, J., M.D. *Karl Franzens*, FRCSC
Scarth, H., B.Sc. *Dalhousie*, M.Sc. *UWO*, M.D. *Toronto*, FRCSC
Stiles, G., B.A. *U.N.B.*, M.D. *Dalhousie*, FRCSC
Thavanathan, M.J.M., M.B., B.S. *Sri Lanka*, FRCSC

Clinical Assistant Professors of Surgery (Neurosurgery)
Avery, R., B.M.Sc., M.D. *Memorial*, FRCSC
Engelbrecht, H.A., M.D. *University of the Free State*, FCS(SA)

Clinical Assistant Professors of Surgery (Plastics)
Cluett, J., M.D. *Memorial*, FRCSC
Fitzpatrick, D.G., B.Sc.(Hons.), B.Ed., B.Med.Sc., M.D. *Memorial*, FRCSC
Rideout, A., B.Sc. *Kings*, B.Sc.(Hons) *Dalhousie*, M.D. *Memorial*, FRCSC

Clinical Assistant Professors of Surgery (Ophthalmology)
Bautista, D.V., B.Sc.(Chemistry), B.Med.Sc., M.D. *Memorial*, FRCSC
Bense, M., M.B., Ch.B. *Pretoria*, FRCSC
Dunphy, D., B.Eng., B.Med.Sc., M.D. *Memorial*, FRCSC
Jackman, C.S., B.Sc.(Hons.), M.D. *Memorial*, FRCSC
McNicholas, J., B.Sc, M.D., FRCSC
Murphy, B., B.M.Sc., M.D. *Memorial*, FRCSC
Whelan, J.H., B.S., B.Med.Sc., M.D. *Memorial*, FRCSC
Williams, K.B., B.Sc., M.D. *Memorial*, D.O. *New England College of Optometry*, FRCSC

Clinical Assistant Professors of Surgery (Otolaryngology)
Lee, B.S., B.Sc., M.D. *Dalhousie*, FRCSC
Tjan, E.T., M.D. *Taiwan* , FRCSC

Clinical Assistant Professors of Surgery (Urology)
Drover, D.N., B.A., B.Med.Sc., M.D. *Memorial*, FRCSC
Duffy, G., B.Sc., M.D. *Memorial*, FRCSC
French, C., B.Sc., M.D. *Memorial*, FRCSC
Hewitt, R., B.Med.Sc., M.D. *Memorial*, FRCSC

Cross Appointed from the Discipline of Genetics
Green, J., M.Sc. *British Columbia*, Ph.D. *Memorial*

Division of Community Health and Humanities

Associate Dean
Mulay, S., Ph.D., M.Sc. *McGill*, B.Sc. *Delhi, India*

Professores Emeriti
Fodor, J.G., M.D., Ph.D. *Prague*, FRCPC
West, R., M.Sc., Ph.D. *McGill*

Honorary Research Professors
Bavington, W., B.A. *Graceland College*, M.D. *Toronto*, D.T.M.H *Liverpool*, M.P.H. *Johns Hopkins*, F.A.C.P.M., FRCPC
Buehler, S., A.B. *Illinois College*, M.A. *Indiana*, Ph.D. *Memorial*
Crellin, J., B.Pharm., L.R.C.P., M.P.S., M.R.C.S., M.Sc., Ph.D., *London*

Clinical Professor of Microbiology and Epidemiology
Ratnam, S., M.Sc. *Madras*, Ph.D. *Delhi*

Professors
Gadag, V., B.Sc., M.Sc. *Karnatak*, M.Phil., Ph.D. *Poona*; Biostatistics; Cross appointed to Department of Mathematics and Statistics
Mulay, S., B.Sc. *Delhi, India*, M.Sc., Ph.D. *McGill*; Community

Health
Pullman, D., B.R.E. *Briercrest*, B.Ed. *Western*, M.Div. *Biola*, M.A., Ph.D. *Waterloo*; Health Care Ethics; Cross appointed to Department of Philosophy

Associate Professors
Audas, R., B.B.A. *New Brunswick*, M.B.A., M.A. *Dalhousie*, Ph.D. *Wales*; Health Statistics and Economics
Beausoleil, N., B.A. *Laval*, M.A., Ph.D. *UCLA*; Social Science and Health
Gustafson, D., B.A. *McMaster*, M.Ed. *Brock*, Ph.D. *Toronto*; Social Science and Health
Brunger, F., B.A.(Hons.) *Winnipeg*, M.A., Ph.D. *McGill*; Health Care Ethics
Donovan, C., B.Med.Sc., M.D. *Memorial*, M.H.Sc. *British Columbia*; Public Health
Mathews, M., B.Sc., B.A. *Calgary*, M.H.S.A. *Alberta*, Ph.D. *Toronto*; Health Policy/Health Care Delivery; Winner of the President's Award for Outstanding Research 2010-2011
Neville, D., B.N. *Memorial*, M.Sc.N. *Toronto*, S.M., Sc.D. *Harvard*; Health Care Policy and Delivery (on leave)
Roebothan, B., B.Sc., Ph.D. *Memorial*, M.Sc. *Saskatchewan*; Nutrition/Dietetics
Wang, P., Ph.D., M.D., M.P.H. *China*; Epidemiology

Assistant Professors
Kaposy, C., B.A. *McMaster*, M.A. *Concordia*, Ph.D. *State University of New York*; Health Care Ethics
Maddalena, V., Ph.D. *MHSA*, B.N. *Dalhousie*; Health Policy/Health Care Delivery; Cross appointed to Nursing
Sarkar, A., MBBS *Burdwan*, MCH & Ph.D. *JNU, New Delhi*, MES *Queen's*; Environment and Occupational Health
Valcour, J., B.Sc., M.Sc., Ph.D. *Guelph*; Epidemiology
Yi, Y., B.Sc., M.Sc. *China*, M.Sc., Ph.D. *Manitoba*; Biostatistics/ Quantitative Research; Cross appointed to Department of Mathematics and Statistics

Clinical Professors
Godwin, M., B.Med. *Memorial*, M.Sc. *Queen's*; Cross appointed from Discipline of Family Medicine
Ratnam, S., M.Sc. *Madras*, Ph.D. *Delhi*; Cross appointed from Discipline of Laboratory Medicine

Clinical Associate Professor
Allison, D., M.D. *Queen's*, FRCP

Clinical Assistant Professors
Barrowman, B., B.Sc. *Queen's*, LL.B. *Toronto*, M.D. *Memorial*
Doyle, M., B.A., Ph.D. *Memorial*, M.A. *Guelph*
Elliott, P., M.B.A., Ph.D. *Memorial*
Woodrow, J., B.Sc., Ph.D. *Memorial*

Clincial Lecturer
Varghese, S., M.Sc. *Memorial*; Community Health

Canada Research Chairs, Tier II
Traverso, M., Ph.D. *Spain*, B.A. *Ecuador*; Health Promotion and Community Development
Young, W., B.Sc. *Trent*, M.A. *Ontario*, Ph.D. *Toronto*; Healthy Aging; Joint appointed with Nursing

Joint Appointments
Heath, O., B.A. *McGill*, M.Sc., Ph.D. *Memorial*; Assistant Professor; Joint appointed with Counselling
Kearney, A., B.N., Ph.D. *Memorial*, MHSc. *Toronto*; Assistant Professor; Joint appointed with Nursing

Cross Appointment
Simms, A., B.A. *Memorial*, M.Sc., Ph.D. *Calgary*; Geography

Professional Associates
House, J., B.A. *Reading*, B.Ed. *Memorial*, LL.B *Dalhousie*
Ramlackhansingh, J., MBBS, *West Indies*, MPH, *Manchester*
Stares, J., B.Sc., *Memorial*, M.H.Sc. *University of Toronto*
Wright, E., M.Sc. *McGill*, B.N., B.Sc. *Memorial*

Adjunct Professors
Hanrahan, M., Ph.D. *London, U.K.*, M.A. *Ottawa*, B.A. *Memorial*
McDonald, P., B.A. *Memorial*, LL.B. *Osgoode Hall*
Moore-Orr, R., S.M. *Iowa*, D.Sc. *Harvard*

Professional Development and Conferencing Services (PDCS)

Vice Dean
Peters, S., M.D. *Memorial*, MPH *Milwaukee*, FRCPC

Assistant Dean
Bursey, F., B.Sc., M.D. *Memorial*, FRCPC

Director, Academic Development For Specialists
Fox, G., M.D. *Memorial*, M.Sc. *Western Ontario*, FRCPC, FCCP

Director, Academic Development (Family Physicians)
Snow, P., M.D., B.N. *Memorial*, C.C.F.P.

Director, Research and Development
Curran, V.R., B.A. *Memorial*, Dip.Ad.Ed. *St. Francis Xavier*, M.Ed. *Dalhousie*, Post Grad. Cert. *British Columbia*, Ph.D. *Guelph*

Director, Assessment and Retraining
Bannister, E., B.Comm., M.D. *Memorial*

Director, CSAT Program
Sparrow, C., M.D. *Memorial*, C.C.F.P., F.C.F.P.

Director, Professional Development and Conferencing Services
Kirby, F., B.Sc., B.Ed., M.Ed. *Memorial*

Centre for Collaborative Health Professional Education (CCHPE)

Professor of Medical Education
Curran, V.R., B.A. *Memorial,* Dip.Ad.Ed. *St. Francis Xavier,* M.Ed. *Dalhousie,* Post Grad. Cert. *British Columbia*, Ph.D. *Guelph*

Centre for Offshore & Remote Medicine (MEDICOR)

Medical Director
LeDez, K., M.B., Ch.B. *Dundee*, FRCPC

Technical Director
Decker, D., B.Comm., Diving Safety Specialist

Associate
O'Shea, C., L.R.C.P.S. and P.I. *Dublin*, M.D.
Zbitnew, G., B.Sc., M.D. *Alberta*, FRCPC

Health Sciences Library

Associate University Librarian (Health Sciences)
Beckett, G., B.A. *Simon Fraser University*, M.L.S. *McGill*

Head, Public Services
Barnett, L., B.Sc. *McGill*, M.L.I.S. *Dalhousie*

Librarians
Fahey, S., B.A.(Hons.) *Memorial*, M.L.I.S. *McGill*
Farrell, A., B.A. *Acadia*, M.L.I.S. *Dalhousie*
Glynn, L., B.A. *Memorial*, M.L.I.S. *UBC*
Gordon, S., B.A. *Memorial*, M.L.I.S. *Western*
Morgan, P., B.A.(Hons.), M.B.A. *Memorial*, M.L.I.S. *McGill*

Medical Education and Laboratory Support Services

Manager
Evelly, E., R.T.

Health Sciences Information and Media Service

Director
O'Neill, S., B.Sc. *Memorial*

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 Background

The Faculty of Medicine of Memorial University of Newfoundland is one of 17 Canadian medical schools and was one of the four schools suggested by the Hall Royal Commission on Canadian Health Services in its 1964 report.

A series of meetings was begun in 1963 between representatives of Memorial University of Newfoundland, the Newfoundland Medical Association, and the Department of Health of the Government of Newfoundland and Labrador. Following the Hall Commission's recommendation and on the basis of positive advice from Dr. J. Wendell MacLeod, Executive Secretary of the Association of Canadian Medical Colleges, and Dr. Chester B. Stewart, Dean of Medicine at Dalhousie University, Halifax, Nova Scotia, Memorial University of Newfoundland established a Commission in 1965 to undertake a feasibility study. The late Dr. J.A. MacFarlane, formerly Dean of Medicine at the University of Toronto, and a member of the Hall Royal Commission served as chairman. The MacFarlane Commission's recommendation that a Medical School be established at Memorial University of Newfoundland was confirmed independently by a Royal Commission on Health Services for Newfoundland and Labrador. The chairman of this latter Commission, Lord Brain, an eminent British medical educator, and his advisors, reported that the location of a medical school in the Province was a necessary step in the provision of adequate medical services for Newfoundland.

Dr. Ian Rusted, a local physician who had been involved in the early negotiations and had taken the initiative in introducing continuing medical education for doctors in the Province, was appointed Dean of Medicine in 1967. Under his leadership, faculty members were recruited, the undergraduate program was initiated and the first medical students were admitted in 1969. The existing programs of postgraduate training and continuing medical education were strengthened and the spectrum of medical education was subsequently completed in 1971 with the initiation of a program of graduate studies leading to the degrees of M.Sc. and Ph.D.

The undergraduate curriculum was designed to foster integrated learning and to permit contact with patients early in the student's training. To facilitate this integrated approach the administration of the school was set up as a non-departmental system based on three Divisions: Community Health, BioMedical Sciences and Clinical Sciences.

Initially the Faculty of Medicine was housed in temporary buildings. With joint funding by the Federal and Provincial Governments, a Health Sciences Centre (HSC) was constructed on the North Campus of the University and was officially opened in 1978. This new building became home to the Faculty of Medicine General Hospital and the School of Nursing. Over time the building was expanded, and now it also houses the School of Pharmacy, the Janeway Children's Health and Rehabilitation Centre, the Dr. H. Bliss Murphy Cancer Centre and the Agnes Cowan Hostel. The Health Sciences Centre contains a comprehensive health sciences library, animal care and research facilities, plus an appropriate range of teaching facilities to accommodate large lectures and demonstrations, small group discussions and seminars, clinical skills and laboratory sessions. The structure of the Health Sciences Centre facilitates integration between basic scientists, clinicians and allied health workers in the hospital, the University and the community. Clinical research facilities are located adjacent to basic research units and some research laboratories provide services in clinical investigation. Services such as cafeteria and stores are common to the Faculty of Medicine and the Eastern Regional Health Authority.

The General Hospital and Janeway Children's Health and Rehabilitation Centre are part of a network of teaching hospitals in St. John's and throughout the Province. The conventional use of major referral centres as teaching resources is complemented by the availability of regional and community hospitals to provide valuable clinical experience for undergraduate and postgraduate medical students.

In contrast to many other schools, the class size at the University's Medical School is small. This facilitates interaction between students and faculty, and has obvious advantages in clinical teaching. Normally 60 students are admitted annually to the first year of the undergraduate medical program.

Additional information regarding the Faculty of Medicine is available at www.med.mun.ca/medicine/home.aspx.

3 Mission and Objectives of the Faculty of Medicine

The Mission of the Faculty of Medicine is to enhance the health of the people of Newfoundland and Labrador by educating physicians and health scientists; by conducting research in clinical and BioMedical Sciences and applied health sciences and by promoting the skills and attitudes of lifelong learning

The objectives of the Faculty of Medicine are consistent with the objectives of Memorial University of Newfoundland in developing and maintaining excellence in the quality of its academic standards and of research, establishing programs to meet the expanding needs of the Province and of providing the means to reach out to all the people.

The Faculty seeks to attain these objectives through an organizational structure which allows optimum interaction among the various disciplines within the Medical School and with other Faculties and Schools as appropriate.

The term 'Medical School' refers to the wider organizational structure of the Faculty of Medicine with various healthcare, institutions, community organizations and other academic units with the University.

The specific objectives are:

1. To teach medical students to be physicians; and to provide such learning experiences as will inspire all medical graduates of the school to be prepared to practice medicine at the highest standards, serving all individuals and societies in the pursuit of health.
2. To acknowledge the special geography of this Province by encouraging the education of physicians with exemplary skills for rural practice.
3. To educate and train graduate and diploma students in the health sciences.
4. To provide postgraduate educational experiences in medicine and the medical sciences such that the graduating Canadian physicians will pursue further studies within the school's postgraduate programs, leading to certification in family medicine or specialist subjects, especially in those areas where deficiency in numbers is currently recognized or anticipated.
5. To instill within students at all levels:
   a. The wish and the capacity to further the practice and science of medicine through the creation of new knowledge for the improvement of the health of the world's peoples.
   b. The wish and the capacity to improve their own professional practice through continuing self-assessment and scholarship.
   c. An appreciation of their evolving roles as members of a team of professionals possessing complementary skills.
6. To attract faculty members who will together:
   a. Act as a resource in providing undergraduate, graduate, postgraduate, and continuing medical education.
   b. Contribute to the advancement of educational methods.
   c. Practice the highest quality of primary, secondary, or tertiary care medicine.
   d. Show leadership in promoting research into the health of the individual and the community, including the organization of health care delivery systems.
   e. Facilitate and promote education and research appropriate to our mid North-Atlantic environment.

7. To provide educational experiences in the health sciences to students from other Schools or Faculties of Memorial University of Newfoundland and of other educational institutions.
8. To provide Continuing Medical Education experiences which will help physicians to maintain and enhance their competence in medical skills.
9. To provide a learning environment for undergraduate, graduate, and postgraduate students of medicine and the medical sciences who are citizens of other countries.
10. Actively to provide an Informational, Educational and Consultative resource for the whole community.

4 Affiliated Teaching Sites

1. Within St. John's: (hospitals and other centres under the Eastern Regional Health Authority)
2. Outside St. John's: (hospital/community settings)
3. New Brunswick: (hospital/community settings)
4. Prince Edward Island**:** (community settings)

5 Description of Medical Training Program

The Faculty of Medicine offers a four-year undergraduate medical program, comprising a minimum of 186 credit hours, leading to the degree of Doctor of Medicine (M.D.).

The first two years of medical studies is called Pre-Clerkship. BioMedical Science courses are taught primarily in the first year of medical studies. Upon completion of these courses, the Integrated Study of Disease courses follow. Students undertake instruction in Community Health & Humanities and Clinical Skills concurrently. By the end of Pre-Clerkship, students are expected to be able to take a patient's medical history, perform a thorough physical examination and to derive a logical diagnosis. The Clerkship Preparation Course is completed prior to commencing the Clerkship.

The last two years of medical studies is called Clerkship. During this time, students who are clinical clerks take courses that will allow them to alternate through the major disciplines in hospital and community settings throughout affiliated teaching sites in Newfoundland and Labrador and community and hospital settings throughout Prince Edward Island and New Brunswick. Clinical clerks participate as members of the health care team gaining the knowledge and experience necessary to assume the responsibilities associated with patient care.

Upon successful completion of medical studies, the students are qualified to write Part I of the licensing examinations set by the Medical Council of Canada (MCC). After the award of the M.D. degree and following successful completion of one year of postgraduate training, they are qualified to write Part II of the MCC licensing examinations.

6 Continuing Medical Education

The Faculty of Medicine's Office of Professional Development and Conferencing Services delivers accredited continuing medical education (CME) programs and plays a major role in meeting the professional development needs of health care professionals throughout Newfoundland and Labrador and across Canada. CME is offered through a variety of formats, including teleconferencing, video-conferencing, online and onsite. Faculty development programs are designed specifically to assist faculty members in their own unique educational requirements. Educational assessments and retraining experiences are available to physicians, international medical graduates and health care practitioners who meet the criteria. The Office of Professional Development and Conferencing Services is committed to assisting students, faculty members, and physicians in meeting their educational requirements.

7 Postgraduate Medical Training Programs

Postgraduate medical training is offered in programs leading to certification by either the College of Family Physicians of Canada (CFPC) or the Royal College of Physicians and Surgeons of Canada (RCPSC). These are full-time training programs comprised of hand-on-practical training complemented by formal teaching and academic study. The programs are completed in a structured learning environment consisting of hospital and community based teaching units, supervised by faculty. The level of responsibility afforded the student is based on regular evaluation of abilities by faculty. The Postgraduate training programs are accredited by the CFPC or the RCPSC and the appropriate licensing authorities.

Postgraduate entry positions are available through the Canadian Residency Matching Service. For further information write to The CaRMS Office, Suite 802, 151 Slater Street, Ottawa, Ontario K1P 5H3, or by telephone to (613) 237-0075, or toll free to (800) 291-3727, or the website at www.carms.ca.

7.1 Family Emergency Medicine

The University offers a two-year residency in Family Medicine. This leads to eligibility for certification by the College of Family Physicians of Canada. Emergency medicine is a one-year program of specialty training. Successful completion of this program will lead to eligibility to sit the CCFP EM certification examination in emergency medicine.

7.2 Residency Training Programs

Memorial University of Newfoundland offers specialty training programs in Anesthesia, Internal Medicine (and subspecialty in Nephrology), Neurology, Obstetrics/Gynecology, Orthopedics, Anatomic Pathology, Pediatrics, Psychiatry, Radiology and General Surgery.

Internal Medicine and Pediatrics offer a straight program in the first year of the training program. The normal period of training in Internal Medicine or Pediatrics is four years post-M.D.

In the remaining specialty programs offered by Memorial University of Newfoundland, broad-based clinical training is offered as the first year of the training program. The total length of each of these programs is five years.

7.3 Clinical Fellowships

A sixth year of postgraduate study (Clinical Fellowship) may be available to residents who have completed specialty training requirements. These fellowships may be primarily directed to the clinical area, to teaching, or to research.

7.4 Registration

Postgraduate Trainees are registered each year as full-time students of Memorial University of Newfoundland.

7.5 Licensure in Newfoundland and Labrador

All trainees must be eligible for and obtain an educational license from the College of Physicians and Surgeons of Newfoundland (CPSNL). Advice will be provided by the Postgraduate Medical Education Office.

Information on requirements for International Medical Graduates is available through the website at www.med.mun.ca/pgme.

7.6 Evaluation

1. The planning of the residency programs, including the policy on evaluation, is the responsibility of the Postgraduate Medical Education Committee and is based on the accreditation requirements of the Royal College of Physicians and Surgeons of Canada and the College of Family Physicians of Canada. The Postgraduate Medical Education Committee reports to the Dean of Medicine through the Assistant Dean.
2. Each resident is expected to complete the work of the program as outlined by the program-specific Residency Training Committee for each year of the program and to meet the prescribed goals and objectives of the program. The Residency Training Committee is chaired by a Program Director who reports to both the Assistant Dean of Postgraduate Medical Education and the Chair of the clinical discipline.
3. For each rotation, evaluation of the resident's performance is conducted by the supervisor responsible for the resident during the rotation. Evaluation is based on written assessments and performance-based direct observation. The results of the evaluation are expressed through an In-Training Evaluation Report (ITER), which records the competency level of the resident for each goal and objective of the rotation.
4. There are three possible outcomes for a resident's rotation, based on the results of the ITER: satisfactory, unsatisfactory, or incomplete. Residents learn the results of the ITER through online software (one45) administered by the Postgraduate Medical Education Office and the individual programs.
   a. If a resident receives a satisfactory outcome in a rotation, he/she proceeds to the next rotation in the training schedule.
   b. If a resident receives an unsatisfactory outcome in a rotation, the Residency Training Committee will design a remedial program to address the resident's area(s) of weakness. In some instances, the Committee may require the resident to repeat the entire rotation. Evaluation of the remedial program is adapted according to the goals and objectives to be achieved by the remedial program. If the resident receives an unsatisfactory evaluation in the associated remedial program, he/she will be placed on probation.
   c. If a resident receives an incomplete outcome in a rotation, he/she will be required to complete the rotation.
5. If a resident receives an unsatisfactory evaluation for two rotations within one academic year, he/she will be placed on probation.
6. A resident has the right to appeal decisions leading to remediation and probation in accordance with the Postgraduate Medical Education's Evaluation, Promotion and Appeals Policy.

7.7 Probation

1. The terms of the probationary period are outlined in a probation contract with the resident. The length of the probationary period is determined by the Residency Training Committee and excludes vacation time, sick leave, and leaves of absence.
2. Successful completion of a probationary period requires satisfactory evaluations for all portions of the probationary period.

7.8 Promotion

1. A resident's progress is monitored in each year by the Residency Training Committee. During the academic year, the resident meets with the Program Director (or designate) to review his/her ITERs - at six months and again at the end of the academic year. Based on these meetings, the Program Director prepares a Mid-Year Progress Report and an End-of-Academic-Year Report.
2. To successfully complete a postgraduate program, a resident must be promoted through each year of his/her program. The Residency Training Committee meets every year to review a resident's progress report(s). In some instances, the Committee may also review individual ITERs from the specific rotations. On the basis of this review, the Residency Training Committee decides which residents should be promoted to the next year and which residents are eligible to sit the national examinations of the Royal College of Physicians and Surgeons or the College of Family Physicians of Canada.

7.9 Dismissal

1. If a resident fails to successfully complete a probationary period, he/she will be dismissed from the program.
2. If a resident is recommended for probation twice during the program, he/she will be dismissed from the program.
3. The Faculty of Medicine reserves the right to require a resident to withdraw from a postgraduate program at any time with just cause. In such cases, the Dean, on behalf of the Faculty, recommends such withdrawal to the Registrar who will then take appropriate action. Any such action is subject to the right of appeal by the resident, in accordance with the Postgraduate Medical Education's Evaluation, Promotion and Appeals Policy.

8 Graduate Studies

Interdisciplinary interaction and research among the divisions of BioMedical Sciences, Community Health and Humanities and Clinical Sciences is promoted.

Programs have been designed to attract students interested in a Graduate Diploma or a M.Sc., Ph.D. or M.D.-Ph.D. degree and the Master of Public Health. Areas of strength include Applied Health Services Research, Cancer and Development, Cardiovascular and Renal Sciences, Clinical Epidemiology, Community Health, Human Genetics, Immunology and Infectious Diseases, and Neurosciences. Details of the graduate programs are provided in the School of Graduate Studies section of this Calendar.

9 Regulations for the Degree of Doctor of Medicine

9.1 Admission to the Faculty of Medicine

1. All applications for entry to the program of studies leading to the Doctor of Medicine (M.D.) degree are dealt with by the Admissions Office of the Faculty of Medicine and must be submitted to that office on or before the closing date (normally October 15th). No application received after this date will be considered. An application processing fee of $75.00 is required from all applicants.
2. Applications are reviewed after the closing date by the Admissions Committee of the Faculty of Medicine. This Committee has the delegated authority of the Faculty Council to admit or decline to admit students, following guidelines and procedures acceptable to that Council.
3. Admissions will normally be to the first year of medical studies. In exceptional circumstances, admission with advanced standing may be offered.
4. Entry to medical school is on the basis of competition for a fixed number of places. The Admissions Committee takes account of an applicant's academic background, performance on the Medical College Admissions Test (MCAT) and information on an applicant's personal characteristics and achievements as given by the applicant, by referees' reports and, in some cases, by personal interviews. Age by itself is not used as a basis for selection or rejection. Both age and the length of time away from full-time studies may be taken into consideration. The residency status of each applicant at the time of the closing date for application (normally October 15) will be determined by guidelines established by the Admissions Committee and approved by Faculty Council. For each candidate, the residency status determined at that time will apply throughout the admissions process and the period of undergraduate medical education. Priority is given to applicants who are bona fide residents of this province.
5. The Admissions Committee's decision to admit or decline to admit an applicant will be made on the basis of the competition for entry in the year of application and will be determined by the Committee's judgement of the likelihood of an applicant succeeding in the academic and professional studies leading to the award of the M.D. and in the eventual practice of medicine.
6. To be eligible for admission, an applicant shall have completed a bachelor's degree including the prerequisite subjects of 6 credit hours in English at a recognized university or university college before admission.

   In exceptional circumstances an application may be considered from someone who does not expect to hold a bachelor's degree at the time of admission. Such an applicant will have completed at least 60 credit hours including the prerequisite subjects of 6 credit hours in English at a recognized university or university college before admission and be a student who has work-related or other experience acceptable to the Admissions Committee.

   No application will be considered from a candidate who cannot produce evidence that the above requirements have been met or will have been met by the time of entry to the Medical School.

   In addition, all applicants must write the MCAT prior to the application deadline. The MCAT should be written within the preceding five years of the date of application.
7. Applicants need to be aware of the policy related to Essential Skills and Abilities Required for the Study of Medicine. This policy outlines essential skills and abilities needed to succeed in the M.D. program and it includes technical standards for students in the program and information for students with disability. This information is available on the Faculty of Medicine's website at www.med.mun.ca/Admissions/Application-Preparation.aspx.
8. Each applicant is responsible for ensuring that all the required information on the application form, e.g. transcripts, MCAT scores, referee's reports, is supplied to the Admissions Committee, and for providing any further information required by this Committee. An application is not considered complete until these documents have been received.
9. The Admissions Committee may request that a candidate attend an interview.
10. Notification of the Committee's decision will be made to candidates by letter signed by, or on behalf of, the Chair of the Admissions Committee. No other form of notification can be considered to be official.
11. The letter of acceptance will give the successful applicant fourteen (14) days in which to confirm that he/she will accept the place offered. The signed intention to accept the offered place must be accompanied by a deposit of $200.00 which will be credited towards tuition fees. The deposit will be forfeited if the applicant subsequently declines the place.

    If no reply to the offer of a place is received within fourteen days, the offer by the Faculty of Medicine will be withdrawn on the appropriate date, and the applicant will be informed of this by letter.
12. In order to register, applicants who have been accepted as international students will be required to sign a document indicating that they will pay differential fees throughout the undergraduate medical program and that they will have the status of non-Canadians in the postgraduate matching process.
13. The Admissions Committee, at its discretion, may grant deferral of admission for one year to a maximum of two successful applicants in the first round of offers for any one admission cycle. An applicant must request a deferred entry at the time of responding to an offer of admission. The first round of offers are normally confirmed by mid-May and requests for deferral are considered by mid-June.
14. Successful applicants must normally complete a certified Basic Cardiac Life Support course before beginning medical school.
15. Unsuccessful applicants who wish to reapply for admission are required to submit the application forms relevant to the year of re-application and will be required to enter the competition in that year. An unsuccessful applicant can meet with the Assistant Dean for Admissions or the Admissions Officer to discuss reapplying prior to the deadline for submission of a new application (normally October 15).
16. An unsuccessful applicant has the right to appeal against the decision of the Admissions Committee not to offer him/her a place, if it is felt by the applicant that the decision was reached on grounds other than those specified in Clauses 1-4 above. The appeal should be made in writing within fourteen days of the notification of the decision and should be directed to the Dean of Medicine. The letter should state clearly and fully the grounds for the appeal. If the Dean of Medicine, in consultation with the Registrar, judges the grounds to be sufficient, the formal appeals mechanism will be initiated.

9.2 Licensure in Newfoundland and Labrador and Other Approvals

All medical students must be eligible for and obtain an educational license from the College of Physicians and Surgeons of Newfoundland and Labrador (CPSNL).

The Faculty of Medicine does not require criminal record checks or other screening procedures as a condition of admission to its program.

Students, however, should be aware that such record checks or other screening procedures may be required by agencies used by the University for professional registration, clinical experiences or academic course assignments necessary for graduation. Such agencies

may refuse to accept students on the basis of information contained in the record check or other screening procedure thus preventing the student from completing a practice experience or other requirement. As a result, such students may not be eligible for promotion or graduation. The student is responsible for having such procedures completed as required at his or her own expense. The screening procedures of any given agency may change from time to time and are beyond the control of the University.

9.3 Evaluation

1. Subject to the approval of Senate, the overall policy of evaluation and the planning of the programs of studies leading to the M.D. degree are the responsibility of the Undergraduate Medical Studies Committee, which is a standing committee of the Council of the Faculty of Medicine.
2. Each student is expected to complete the work of the class as described in the current regulations of the Faculty of Medicine for each year of the program and to pass the prescribed academic and professional evaluations. In this context, the professional evaluation will cover, not only the skills expected of a student, but personal conduct and relationships with peers, patients, hospital personnel, faculty members and staff.
3. Course grades are recorded as pass or fail on a student's University transcript. For Pre-Clerkship courses/subjects and Medicine 7280, evaluation of an individual student's performance is conducted by the course/subject chair or instructor(s). The overall results of the course/subject evaluations are expressed on a four-point internal scale as outstanding, pass, borderline or fail. For Clerkship, overall evaluations of discipline rotations/selectives and electives are the responsibility of the respective discipline or electives co-ordinator. There is an internal five-point scale of outstanding, above average, average, below average and fail.
   a. The Co-ordinator of the Pre-Clerkship or Clerkship and the Chair of the appropriate course/subject committee are responsible for ensuring that each student is informed of the results of each evaluation. The Chair of the course/subject committee will notify the student and Pre-Clerkship or Clerkship Co-ordinator, in writing, of any concerns that have arisen about performance.
   b. It is the responsibility of the student to consult immediately with the Co-ordinator of the Pre-Clerkship or Clerkship Committee and/or the Chair of the course/subject committee regarding any course/subject in which concerns about performance have been expressed. Within one week of receiving notification of the grade for a course/subject, a student may submit a written request to the Co-ordinator of the Pre-Clerkship or Clerkship Committee for reconsideration of the grade awarded or for a reread of an exam/paper.
   c. The student is responsible for notifying the Co-ordinator of the Pre-Clerkship or Clerkship Committee immediately of any new circumstances or of any pre-existing circumstances that have not previously been reported which could affect his or her individual performance in the work of the class.
4. A student's progress is monitored in each year of the program by the Pre-Clerkship or Clerkship Committee.

9.4 Promotion

1. The Student Promotions Committee is a standing committee of Faculty Council. The Student Promotions Committee review the grades of all students in each year. On the basis of this review, this Committee decides which students should be promoted to the next year and which students are eligible to graduate. In reaching its decisions the Student Promotions Committee takes into account professional, as well as academic factors, and any special circumstances, duly authenticated, which warrant consideration.
2. The Student Promotions Committee may require students to pass reassessments or to do remediation with reassessment before being considered for promotion or graduation. Students with a Fail grade in any subject or course cannot be promoted; such students may be required to repeat the entire course or any appropriate section and must pass an appropriate reassessment before a positive promotion decision is made. The amount and quality of makeup required of a student is at the discretion of the Student Promotions Committee, but it cannot be undertaken while any other course, including an elective, or a selective, is in progress, nor if a student's full participation in subsequent courses is in any way jeopardized. Any student who passes remediation and reassessment will have their transcript show only a 'PAS' grade along with a transcript note reading: "grade awarded in *course name and number* as a result of successful remediation after a failing grade in *subject(s), n of n* components of *course number'"*.
3. A student who consistently receives Borderline or Below Average grades even in the absence of any Fail grades may either be required to repeat the year or required to withdraw conditionally or unconditionally.
4. A student who is deemed by the Student Promotions Committee to be unsuitable for promotion or graduation is either required to repeat all of the studies in any year, or required to withdraw either conditionally or unconditionally.
   a. If a student is required to repeat a year with academic prejudice, his or her performance in the repeated year must be at a level at which no remediation or reassessment is required. If this standard is not met, the Student Promotions Committee requires the student to withdraw unconditionally.
   b. The option to repeat a year with academic prejudice can only be offered to a student once during his/her M.D. program. A student may repeat a year without academic prejudice if it has been demonstrated that the student's performance has been adversely affected by other factors acceptable to the Student Promotions Committee and duly authenticated.
   c. If the Student Promotions Committee requires a student to withdraw conditionally, the Chair of the Student Promotions Committee reports to the Dean and the Pre-Clerkship or Clerkship Co-ordinator the nature of the conditions to be met and the time period specified for meeting the conditions. The Dean then recommends to the Registrar that the student be required to withdraw from the program. Any student who has been required to withdraw conditionally may be readmitted once the conditions have been met. If the conditions are not met within the specified time limit, the student is required to withdraw unconditionally.
   d. If the Student Promotions Committee requires a student to withdraw unconditionally, the Chair of the Student Promotions Committee will report the decision and the basis upon which it was reached to the Dean and the Pre-Clerkship or Clerkship Co-ordinator. The Dean then recommends to the Registrar that the student be required to withdraw from the program. Any student who is required to withdraw unconditionally and who wishes to re-enter the Faculty must apply by the appropriate deadline date to the Admissions Committee in competition with all other applicants.
5. A student has the right to make a formal appeal against a decision of the Student Promotions Committee. However, this appeal cannot be made on the basis of the grades awarded in individual courses or subjects, as the student will normally have had the opportunity of contesting grades immediately after notification. A formal appeal by a student against the decision of this Committee must be made on grounds other than the grades awarded, e.g. default of procedure. This appeal should be made in writing, clearly stating the basis for the appeal and should be directed in the first instance to the Dean. The Dean in consultation with the Office of the Registrar determines whether or not the grounds stated are sufficient to warrant a formal hearing of the appeal.
6. In addition to the above clauses, the Faculty of Medicine reserves the right to require a student to withdraw from the program at any time when acceptable cause is demonstrated. In such cases, the Dean, on behalf of the Faculty, recommends such withdrawal to the Registrar who will then take appropriate action. Any such action is subject to the right of appeal by the student. An appeal should be made in writing clearly stating the basis for the appeal and should be directed in the first instance to the Registrar of the University. The Registrar, in consultation with the Dean, will determine whether or not the grounds stated are sufficient to warrant a

formal hearing of the appeal.

7. Any student who enters the first year of the medical program but withdraws within the first seven weeks may be permitted re-entry only by re-application to the Admissions Committee in competition with all other applicants by the appropriate deadline date. Withdrawal at all other times is in accordance with ***UNIVERSITY REGULATIONS* - General Academic Regulations (Undergraduate)**.
8. a. Upon completion of a program year, a student in good academic standing may elect to withdraw temporarily from studies (e.g. to pursue graduate studies after completion of the second year).
   b. Any student may be permitted to withdraw in accordance with ***UNIVERSITY REGULATIONS* - General Academic Regulations (Undergraduate) Withdrawing From The University**. In all cases, the intent to withdraw voluntarily should be discussed with the Pre-Clerkship or Clerkship Co-ordinator, as appropriate. The student must make a written request for voluntary withdrawal to the Dean who will then consult the appropriate Co-ordinator. In the event that a student wishes to return to medical school, the Dean should ensure that sufficient revision and preparatory work are undertaken before the student is permitted to resume medical studies.
   c. Students permitted to withdraw are advised of the date upon which they are required to resume medical studies. In the absence of good cause, any such student who does not resume studies on the specified date will be deemed to have left the program.

9.5 Curricular Requirements (M.D.)

Students entering the M.D. program will be governed by curricular requirements in effect at the time of their admission. In the event of readmission, students will be governed by curricular requirements in effect at the time of their readmission.

The Clerkship Student Promotions Committee recommends to Faculty Council those students to be awarded the M.D. degree.

10 Course Descriptions

The courses in Pre-Clerkship form a continuum. Some courses are composed of several individual subjects.

Clerkship provides clinical experience in the affiliated teaching hospitals and community sites of Memorial University of Newfoundland. The students become members of the patient care team and have graded and supervised responsibility.

10.1 Courses in the First and Second Year of Medical Studies

5600 Basic Science of Medicine I is an integrated course with several subjects including anatomy, biochemistry, genetics, immunology, microbiology, pathology and physiology. This course introduces students to the structure and function of the human body and provides the foundation of the basic science of medicine. A wide range of teaching methods are used including lectures, small group sessions, and laboratory sessions/ demonstrations.
CH: 14

5610 Clinical Skills I introduces students to the main elements of the medical interview and techniques of counselling. Students are then expected to acquire skill in examining normal individuals and eliciting symptoms and signs in patients and presenting the findings in a logical and comprehensive manner. Emphasis is placed on developing a sympathetic and understanding approach to the patient. The course also provides an integrated approach to clinical symptoms and signs as manifestations of disordered function or structure. Ethical and legal issues playing a significant role in assessment and management of clinical problems are also considered within the humanities, ethics, and law in medicine (HELM) component.
AR: attendance is required
CH: 9

5640 Community Health I introduces several aspects of community health including health promotion, disease prevention, biostatistics, epidemiology, social and organizational factors in health, environmental and occupational health, community nutrition and behavioural sciences. Lectures and small group sessions are complemented with practical experience obtained through group research projects and field teaching in the community in both a rural and urban context. Aspects of medical ethics relative to community health are integrated throughout the course. Emphasis is placed on understanding the determinants of health and illness and the context in which they occur. The principles of research are introduced and students may initiate research opportunities that are carried through subsequent courses in the curriculum.
CH: 9

5650 Integrated Study of Disease I involves studying diseases of the major organs/body systems and includes integration with the pathophysiological basis of disease, pathology and pharmacology. The course also incorporates the relevant aspects of preventive medicine, clinical genetics, clinical epidemiology and occupational medicine.
CH: 10

5660 Family Medicine Pre-Clerkship Elective is offered to medical students interested in enhancing their patient interviewing and clinical examination skills. Each student will be paired with an experienced family physician in the community (rural and urban opportunities) for two to four weeks during the summer months at the end of the first and/or second year. Students gain practical experience of working at the primary care level in a variety of settings that could include office-based practice, home visits, emergency departments, labour and delivery and both long-term care facilities and in-hospital ward experiences. (This varies depending on the family physician's practice profiles.) Students applying for this course must be currently registered as a first or second year medical student in a Canadian medical school.
AR: attendance is required
CH: 0

6600 Basic Science of Medicine II is a continuation of Basic Science of Medicine I.
CH: 8

6610 Clinical Skills II is a continuation of Clinical Skills I.
AR: attendance is required
CH: 9

6640 Community Health II is a continuation of Community Health I.
CH: 9

6650 Integrated Study of Disease II is a continuation of Integrated Study of Disease I.
CH: 30

6660 Family Medicine Pre-Clerkship Elective has the same course description as Medicine 5660.
AR: attendance is required
CH: 0

7000 Clerkship Preparation Course
AR: attendance is required
CH: 2

10.2 Courses in the Third and Fourth Year of Medical Studies

The Third Year is approximately 14 months in duration; it begins in September and continues until November of the following year. It is composed of the core courses 7200-7250 and two (8 credit hours) elective courses. The Fourth Year begins immediately upon completion of the Third Year and continues until May of the following year. It includes one (4 credit hours) elective course, three (12 credit hours) selective courses, and Medicine 7280.

7200 Internal Medicine
AR: attendance is required
CH: 15

7210 Surgery
AR: attendance is required
CH: 10

7220 Psychiatry
AR: attendance is required
CH: 10

7230 Pediatrics
AR: attendance is required

CH: 10

7240 Rural Family Practice
AR: attendance is required
CH: 5

7250 Obstetrics/Gynecology
AR: attendance is required
CH: 10

7260, 7261 & 7263 Electives
AR: attendance is required
CH: 12 (4 each)

7270-7272 Selectives
AR: attendance is required
CH: 12 (4 each)

7280 Integrated Basic, Community Health and Clinical Sciences
CH: 2

10.3 Courses Offered By the Faculty of Medicine for Non-Medical Students

310A and 310B Human Physiology covers the properties of nerve and muscle cells, the special senses, blood and body fluids, and the nervous, cardiovascular, digestive, immune, respiratory, urinary, endocrine and reproductive systems. Integration of the body's systems in maintaining homeostasis is emphasized. Priority for entry into this course is given to Biochemistry, Nutrition, Dietetics, and other students who are interested in experimental science.
CO: Biochemistry 2101
CR: Biochemistry 311A/B and Medicine 310A/B
LH: to be specified
PR: Biochemistry 2101

4300 Introduction to General and Autonomic Pharmacology deals with the general principles of pharmacology (dose-response relationship, drug-receptor interaction, absorption, distribution, metabolism, excretion of drugs), and drugs that affect neuromuscular and autonomic neurotransmission, the cardiovascular, gastrointestinal, and central nervous systems, and autacoids/prostanoids.
CO: Biochemistry 3106 or Pharmacy 3111
CR: Biochemistry 4220
LH: to be specified
PR: Medicine 310A/B or Biochemistry 311A/B, or Pharmacy 2002/2003 or the former Pharmacy 3201/3202.

AR = Attendance requirement; CH = Credit hours are 3 unless otherwise noted; CO = Co-requisite(s); CR = Credit can be retained for only one course from the set(s) consisting of the course being described and the course(s) listed; LC = Lecture hours per week are 3 unless otherwise noted; LH = Laboratory hours per week; OR = Other requirements of the course such as tutorials, practical sessions, or seminars; PR = Prerequisite(s); UL = Usage limitation(s).