ANNUAL REPORT
Division of Medical Biochemistry
Department of Medicine - Jewish General Hospital
January 1, 2016 - December 31, 2016

SUMMARY

(1) Dr. Elizabeth MacNamara, Medical Lead of the Patient Order Sets project, has been instrumental in implementing digitalized Patient Order Sets throughout the Jewish General Hospital. They have had a significant decrease in length of stay in Surgery, and will be implemented in the Emergency Department and Medicine early in 2017.

Patient Order Sets allow access to the accumulated data sets covering a vast array of diseases, illnesses and medical conditions. This data represents best practices from numerous hospitals and other Health Care Institutions that subscribe to the service. The Jewish General Hospital was the first to implement patient Order Sets in Quebec.

(2) Dr. Christoph Borchers has been appointed Head of the Division of Clinical and Research Proteomics at the Jewish General Hospital. The Proteomics Department has expanded to two post-doctoral fellows, three Ph.D. students and a manager. More state-of-the-art equipment has been acquired for the Proteomics Laboratory, in order to develop advanced technologies that increase the range of high-quality proteomics. Applications have been made for CFI, CIHR and Genome Canada funding.

(3) Dr. MacNamara is continuing the development of the IBM-Apple Health Care Apps system for the Jewish General Hospital, in collaboration with Dr. Lawrence Rudski, and Nursing.

1. Research and publications:

Research

Dr. MacNamara is continuing her interest in proteomics research. She has become actively involved in the Genomics Innovation Network (GIN). The goal, or mission, of this network is to create a mechanism for the innovation centres across Canada to work. The Proteomics Department at the Jewish General Hospital has had 14 projects that were either completed or ongoing this past year, including 7 collaborations with different researchers within the Lady Davis Institute/Jewish General Hospital.

Funding sources:

Genome Canada/Genome Quebec GENOMIC APPLICATIONS PARTNERSHIP PROGRAM (GAPP) (project title: iMALDI-based Assays for Protein Activity to Improve Patient Selection for Therapeutic Akt Inhibitors in Cancer Treatment)
Warren Y Soper family foundation
Segal family chair in molecular oncology

Publications:

See list of publications in Section II, #2 below

2. Teaching and learning (undergraduate and graduate):

MacNamara, Elizabeth, MD, FRCP©

Undergraduate, McGill University
Medical Student Elective (4 week period)

Medical Biochemistry Observerships – 2-4 MD’s, 2-4 months/year

Attendance at Medical Grand Rounds 4 times a month for 10 months/year

Attendance at the Association des Médecins Biochimistes du Québec/Canadian Association of Clinical Biochemists Annual Congress

Lectures given:

Conference Evolution Santé for Logibec, La Prairie, Quebec
Ordonnances électroniques: Une transition facilitée vers la standardization des soins. L’expérience de l’Hôpital Général Juif pour amener les données probantes auprès des patients

Talk for the Governors’ Circle, Jewish General Hospital, Montreal, Quebec
Proteomics: The next great scientific revolution in personalized medicine

Eintracht, Shaun, MD, FRCPS©

Undergraduate, McGill University
Postgraduate, McGill University
Resident Supervision/One-on-One Teaching
McGill Medical Biochemistry Residents (12 month period)
Residents’ Teaching
Journal Club (Ad hoc basis)

Lectures given:

Endocrinology Grand Rounds - Jewish General Hospital, Montreal, Quebec
Biotin immunoassay interference

3. Involvement in the community:
Talk for the Governors’ Circle, Jewish General Hospital, Montreal, Quebec
Proteomics: The next great scientific revolution in personalized medicine

Presentation at the Cancer Seminar – Lady Davis Institute
MRM and iMALDI for Biomedical and Clinical Research

4. Partnerships:

Continuing development and implementation of a Laboratory Training Program for technologists from Health Centres in Gansu Province, China. This is part of the collaboration between the Jewish General Hospital laboratory and the Ministry of Health, Gansu, China.

Dr. MacNamara has been appointed as the Chair and External Examiner for the Medical Biochemistry and Metabolic Medicine Program, Kuwait Institute for Medical Specializations (KIMS). Duties include reviewing the exam questions, participating in the oral module of the final exam, and marking the exam with the members of the exam committee.

5. Milestones:

Dr. Christoph Borchers has been appointed Head of the Division of Clinical and Research Proteomics at the Jewish General Hospital.

Dr. André Leblanc has been appointed the facility manager of the Proteomics Laboratory, Jewish General Hospital.

6. Honours, awards, and prizes:

No awards were presented in 2016.

7. Fund raising:

Dr. MacNamara continues to be very active in fund raising to enhance the smooth running of the Diagnostic Medicine Department, for example, the purchase of new, more efficient laboratory equipment, ergonomic furniture for the staff, etc.

SECTION I – DIVISION STATUS UPDATE

1. Mission and Objectives of the Division

Mission Statement
To provide medical laboratory services consistent with the needs of the health care team and their patients in a professional and caring manner.

To initiate and collaborate in research activities directed towards the improved understanding of disease, its diagnosis and monitoring.

To ensure the optimal use of the laboratory service.

To encourage and develop all staff to attain their true potential and to develop a milieu which promotes teamwork.

2. A nominative list of academic staff, their academic rank

Dr. Elizabeth MacNamara, Chief, Department of Diagnostic Medicine, Associate Professor, McGill University (active)

Dr. Shaun Eintracht, Medical Biochemist, Assistant Professor, McGill University (active)

Christoph H. Borchers, MS, PhD, Segal Family Chair in Molecular Oncology, Jewish General Hospital and McGill University, Professor of Oncology and Biochemistry, McGill University, Professor, University of Victoria, Director, University of Victoria Genome BC Proteomics Centre

SECTION II – GRANTS, PUBLICATIONS AND SERVICE OUTSIDE OF McGILL

1. Grants and awards received:

Grant awarded from Genome Canada/Genome B-C in 2012, with the current goal of continuing Genome testing and development within the Proteomics laboratory. Project Title: Clinical implementation and Outcomes Evaluation of Blood-based Biomarkers for COPD Management (Total: $7,200,000 JGH: $1,516,575)

2. Scholarly works published in the 2016 calendar year:


--Chen M, **Eintract S**, MacNamara E. Successful protocol for eliminating excessive urine microscopies: quality improvement and cost savings with physician support. 2016 Dec 19; DOI information: 10.1016/j.clinbiochem.2016.06.016


--MacNamara E, Eintracht S, Tagalakis V. Emergency Department Use of D-Dimers for the Diagnosis of Venous Thromboembolism. Poster presentation at the McGill University Department of Medicine Research Symposium, Montreal, Quebec (2016)

SECTION III-CONFIDENTIAL INFORMATION

1. Consulting activities: None

Respectfully submitted,

Elizabeth MacNamara, MD
Chief, Division of Medical Biochemistry