

Yves A. Lussier, MD

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Academic Training

- 1985 B. Engineering, Faculty of Applied Sciences, University of Sherbrooke, PQ, Canada
- 1989 M.D., Faculty of Medicine, University of Sherbrooke, PQ, Canada

Licensure

- 1985 Quebec Professional Engineering License
- 1989 License of the Medical Council of Canada
- 1991 Full Medical License, College of Physicians of Quebec
- 1998 Full Medical License, College of Physicians and Surgeons of Ontario
- 2001 Full Medical License, Office of the Professions, State of New York

Post-Doctoral Training (traineeship)

- 1989-1990 Internship, CHUL (Laval University Hospital and affiliates), Quebec, PQ, Canada
- 1990-1992 Resident in Family Medicine, CHUS (University of Sherbrooke Hospital), PQ
- 1998-2001 Post-Doctoral Research Fellowship, Department of Biomedical Informatics, College of Surgeons and Physicians, Columbia University, New York, New York.

Board Certifications

- 1991 Board Certified, College of Family Physician of Canada (License # 206070)
- 1998 Recertification, College of Family Physician of Canada (License # 206070)

Professional Activities, Organizations and Societies

NIH/ National Library of Medicine Long Range Planning Panels

- 2005-2006 Member, Planning Panel on NLM Support for Genomic Science of the 21st Century, National Library of Medicine.

Editorial Board Positions

- 1993-1995 Canadian Medical Informatics Journal.
- 2003-present SNOMED International Standards Board / College of American Pathologists
- 2005-2007 Associate Editor on the Editorial Board of Computers in Biology and Medicine (CBM)
- 2006-present Editorial Board member, Journal of Biomedical Informatics
- 2007-present Reviewing Editor on the Editorial Board of Computers in Biology and Medicine (CBM)

Scientific Board Positions

- 2002-2004 Advisory Board of the “Infostructure de recherche intégrée en santé du Québec” (IRIS-Project / McGill).
- 2003-2005 Biomedical Informatics Advisory Board, First Genetic Trust

- 2004-2006 Scientific Advisory Board for the Clinical Bioinformatics Ontology, Cerner Corp.
- 2005-present Primary Academic Partner, IBM Center for Computational Medicine, IBM Healthcare and Life Sciences.

Grant Review Committees:

- 2002-2005 CAT Grant Review Committee, Columbia Center for Advanced Technology
- 2002-2004 Advisory Board of the “Infostructure de recherche intégrée en santé du Québec” (IRIS-Project / McGill)
- 2003 NSF Grant Review Panel, “Information Technology Research” Medium Panel, TATRC Grant Review Committee, National Science Foundation, Bethesda, April 28-30 2003.
- 2003 Homeland Security Product Line Review, *Telemedicine and Advanced Technology Research Center (TATRC)*, Aug 5, 2003
- 2003 NIGMS Grant Review Committee, “Pilot projects for models of infectious disease agent study (MIDAS)” grant application review, National Institute for General Medical Sciences in Bethesda, Nov 12-3 2003.
- 2006 NIH Center for Scientific Review, Biodata Management and Analysis (BDMA), June 12-13, 2006.

Conference Organizing

- 2005 Program Committee for the Workshop on Biomedical Ontologies and Text Processing, 4th Europ. Conf. on Comput. Biology (ECCB), Madrid 28th Sept.
- 2005 Session Chair: Session: S28 - Papers Natural Language Processing Methods, American Medical Informatics Association 2005 Annual Symposium, Washington DC, 10/24.
- 2006 Program committee and Co-Chair for the Sessions "Towards a Semantic Web for Biology", Pacific Symposium in Biocomputing, Hawaii.
- 2006 Scientific Program Committee, Biomedical Ontology in Action, November 8, 2006, Baltimore, Maryland, USA. Workshop organized by the National Center for Ontology Research (NCOR) and the Working Group on Formal Bio-Medical Knowledge Representation of the American Medical Informatics Association (AMIA).
- 2007 Member of the Scientific Program Committee, Chair of the session "Translational Medicine"; ‘International Conference on Biomedical Ontologies (ICBO)’ – renamed “Standards and Ontologies for Functional Genomics (SOFG) conference”. July 2007.
- 2007 Member of the Scientific Program Committee, “Bioinformatics and Disease”, 15th Annual International Conference on Intelligent Systems for Molecular Biology (ISMB)& 6th European Conference on Computational Biology (ECCB) Vienna, Austria: July 21-25, 2007.
- 2007 Member of the Scientific Program Committee, Foundations Track Chair for the 2007 American Medical Informatics Association Fall Symposium, Chicago, October 10-14, 2007.

Service to Professional Societies, Conference Committees and Chair

- 2003-present Director, Genetic and Genomics Working Group, SNOMED Editorial Board / College of American Pathologists.
- 2005 Session Chair, S28 - Papers - Natural Language Processing Methods, American Medical Informatics Association (AMIA).

Workshops

- 2004 Faculty. The fMRI Data Center Summer Workshops in fMRI Informatics, *Dartmouth College*, Hanover, July 12 - July 14, 2004. ("Phenotypic Networks and the art of Neuroinformatics")
- 2004-
NIH/NLM Multimodal Bio-Medical Systems, An IEEE/NLM Workshop 2004. Workshop Organizers: Wong S, Harvard Medical School, Dr. Chung Sheng Li, IBM, Professor Jie Chen, Brown University, The Lister Hill Auditorium, National Library of Medicine, Bethesda, Maryland, USA (October 22, 2004).
- 2005 Buffalo-Columbia Workshop on Ontologies and Cancer Bioinformatics. Friday Oct 14th, University of Buffalo. "Bio-ontologies and Database Integration".
- 2006 Biomedical Ontology in Action (KR-MED International Workshop); November 8, 2006, Baltimore, Maryland, USA. Workshop organized by the National Center for Ontology Research (NCOR) and the Working Group on Formal Bio-Medical Knowledge Representation of the American Medical Informatics Association (AMIA), co-sponsored by the AMIA Formal (Bio)Medical Knowledge Representation Working Group.

Special Committees Appointments

- 1991-present Member of the PSG-06 Committee of the Computerized Patient Record Work Group of the American Medical Informatics Association (AMIA).
- 1994-present Member of the Family Medicine Informatics Committee of American Medical Informatics Association (AMIA).
- 1999-present Member of the Informatics Working Party the World Organization of National Colleges, Academies and Academic Associations of Family Physicians (WONCA).
- 2003-present Member of the clinical genomics working group, American Medical Informatics Association (AMIA)

Manuscript Reviewer

- American Medical Informatics Association Fall Symposium
- BMC Medical Informatics and Decision Making
- BMC Bioinformatics
- Canadian Journal of Medical Informatics
- Drug Discovery Today
- European Conference on Computational Biology (ECCB)
- Expert Review of Molecular Diagnostics
- Genome Biology
- Genomics
- International Journal of Medical Informatics
- Annual International Conference on Intelligent Systems for Molecular Biology (ISMB)
- Knowledge Representation in Medicine (KR-MED)
- Journal of Biomedical Informatics
- Journal of the American Medical Informatics Association
- Journal of Decision Support Systems
- Medinfo Proceedings
- Pacific Symposium on Biocomputing
- Pharmacogenetics and Genomics

Memberships

- 1985-1989 Canadian Council of Professional Engineers (CCPE).
- 1985-1996 Club de recherches cliniques du Québec (CRCQ).

- 1991-1998 Canadian Medical Informatics Association (COACH).
- 1993-1995 Institute of Electrical and Electronics Engineers (IEEE).
- 1989-present Canadian Medical Association (CMA).
- 1990-present American Medical Informatics Association (AMIA).
- 2005-present American College of Medical Informatics (ACMI)

Academic Appointments

- 1994-2001 Adjunct Professor, Department of Family Medicine, Faculty of Medicine, *University of Sherbrooke*, Canada. (in sabbatical leave from 1998-2001)
- 1995-2001 Associate Researcher, Clinical Research Center of the “Center Hospitalier Universitaire,” *University of Sherbrooke*, Canada. (in sabbatical leave from 1998-2001)
- 2001-2006 Assistant Professor, Department of Biomedical Informatics, College of Physicians and Surgeons, *Columbia University*, New York, New York.
- 2002-2006 Assistant Professor, Department of Medicine, College of Physicians and Surgeons, *Columbia University*, New York, New York.
- 2004-present The Columbia Center for Computational Biology and Bioinformatics (C2B2) and the Joint Center for Systems Biology of *Columbia University*, New York, NY.
- 2006-present Adjunct Assistant Professor, Department of Biomedical Informatics, College of Physicians and Surgeons, *Columbia University*, New York, New York.
- 2006 -present Associate Professor, Department of Medicine (Section of Genetic Medicine), Division of Biological Sciences, *The University of Chicago*, Chicago, IL.
- 2006 -present Fellow, Computation Institute of The University of Chicago and Argonne National Laboratory, Chicago, IL.

Clinical Appointments

- 1992-2000 Attending Physician, Centre Hospitalier Universitaire de Sherbrooke (CHUS - integrated the Hôtel-Dieu Hospital of Sherbrooke in 1997), QC, Canada – ER, Intensive Care Unit and Wards. (in sabbatical leave 1998-2000)
- 1992-1999 Medical Staff, Vimy Clinic ('92-96), St-Vincent Clinic ('96-99), Sherbrooke, Canada.
- 2001 Attending Physician, Emergency Medicine Department, Windsor Hospital, QC, Canada.
- 2002-2005 Attending Physician, Department of Medicine, Columbia University Medical Center in affiliation with the New York Presbyterian Hospital, New York.
- 2007 Attending Physician, Department of Medicine, The University of Chicago Hospitals, Chicago.
(in process)

Honors and Scholarships

- 1981 Mention Mention for outstanding contribution to the social and cultural activities of the English Immersion Program, *York University*
- 1983 Merit of Excellence Engineering work term, *IBM*.
- 1984 Merit of Excellence Engineering student excellence merit, *Quebec Iron and Titanium Inc.*
- 1986 Graduate Student Research Scholarship Fond de Recherche en Santé du Québec (*FRSQ*).
- 1986 Merit of Excellence Best research of a graduate student, Faculty of Medicine, *University of Sherbrooke* and *FRSQ*

- 1987 Merit of Excellence Best research of a graduate student, Faculty of Medicine, *University of Sherbrooke* and *FRSQ*.
- 1987 Research Scholarship Graduate Student in Medicine , The Kidney Foundation of Canada
- 1987 Research Scholarship Graduate Student in Medicine, Fond de Recherche en Santé du Québec (*FRSQ*).
- 1991 Merit of Excellence Best presentation, Scientific Meeting of the Department of Family Medicine, University of Sherbrooke
- 1994 Innovation “Octas” Researchers of Purkinje Inc. for the Innovation and excellence of a Computerized Patient Record. From the *Federation of Computer Scientists of Quebec*. <http://www.fiq.qc.ca/octas2000/index.htm>
- 1994 Excellence “Octas”
- 2003 IBM Faculty Award *IBM Faculty Award* (\$12,000), June 15, 2003
- 2003 IBM Faculty Award *IBM Faculty Award* (\$28,000), Dec 22, 2003
- 2004 IBM Faculty Award *IBM Faculty Award* (\$20,000), June 9, 2004
- 2004 Faculty Mentoring Award, *Columbia University* First Awardee, Columbia University Faculty Mentoring Award (FMA) for faculty member in the Biomedical Sciences and GSAS affiliated professional schools
- 2005 Elected Fellow American College of Medical Informatics

Commencement and Keynote Lectureships

- 2001 Commencement Speaker Medical Information Systems Technology (MIST) Program, *SUNY Downstate Medical Center*, New York, Oct 16,2001.
- 2002 Keynote Speaker Annual Meeting of the *Canadian Institute for Health Information (CIHI)*, Spring 2002 Symposium: Partnerships for Health Information Standards, “Genomic Medicine and Terminological Standards.” June 15th.
- 2003 Keynote Speaker *Special Libraries Association Conference*. 3:30 p.m. - 4:30 p.m. at the Hilton New York on the Avenue of the America's. Knowledge Technologies, Proteomics Genomics, Part I: (Dr. Donald Lindberg, NLM) Proteomics Genomics, Part II: (Dr. Stuart Brown, NYU) Information Hubs for Molecular Biology, Databases and Software Keynote speaker on Monday, June 9, 2003 (The Honorable Madeleine Albright)
- 2004 PhD Convocation Faculty Address *Columbia University PhD Convocation*, “The Subculture of One’s Specialty in Graduate Studies”, 5/17/2004.
- 2006 Annual Investigator’s Address Collecting Phenotypic Information from Multiple Databases for Correlation with Genomics. *Board of Regents, National Library of Medicine* – NIH, NLM Board Room, Feb7-8, 2006.

Other Prestigious Lectureships

- 2001 Columbia Seminar Speaker Decision Making at the Moments of Individual and Collective Survival Crisis. University Seminar on Computers, Man and Society, *Columbia University*, March 2*, 2001. .
- 2002 NIST Workshop Speaker “Clinical Genomic Systems and Related Clinical Standards”. Workshop on Information Technologies for Healthcare: Barriers to Implementation. *National Institute of Standards and Technology (NIST)*, Washington, Aug. 1-2., 2002.
- 2002 IBM Research Seminar Speaker "Knowledge Technologies for Clinical and Post-Genomics IT Interoperability". *IBM Watson Research Center*, Computational Biology Seminar. Yorktown, NY, June 19,2002.

- 2003 International Guest Speaker First Technical Theme-Biomedical Informatics, *Agency for Science, Technology and Research (A*Star)* in Singapore, Feb 10th 2003.
- 2003 NIH Seminar Speaker Desiderata for Original and Classical Data Sharing and Reuse. *NIH/ NCI Center for Bioinformatics*, Seminars, Ontologies and Terminologies in Biomedical Research. Washington. March 31, 2003.
- 2003 Invited SFN Panelist Automating Terminological Networks to Link Heterogeneous Biomedical Databases Sharing Compatible Schemas Panel on Neuroscience Ontologies. Special Interest Social: Human Brain Project Social: Creating a Shared Neuroscience Ontology—The Pros and Cons of Different Requirements and Approaches in a Nutshell. *Soc for Neuroscience (SFN)* New Orleans, Nov 10, 2003.
- 2005 NSF Workshop Speaker From Single Gene Diseases to genomic Diseases, an Informatics Perspective. *NSF & MITRE Corporation*. Disease Modeling and Prediction workshop, March 17th-18th, 2003, McLean Virginia.
- 2005 SOFG Guest Speaker Computational Ontologies for High Throughput Visualization and Analysis of the Phenome. *Standards and Ontologies for Functional Genomics 2*. Oct 23, 2004 - Oct 26, 2004, University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania.
- 2005 International Guest Speaker 3rd International Symposium of the *National Institute of Informatics of Japan*, “e-Biology Initiative: Towards New Frontiers of Biology”, Computational approaches to high throughput analyses of non-molecular phenotypes, Tokyo, March 10-11, 2005. <http://www.nii.ac.jp/intsympo/03/03.html>
- 2005 Rockefeller Seminar Speaker Seminars in Clinical Research series at The *Rockefeller University*. Computational Methods for Systems Biology and Medicine: Approaches to high throughput analyses of phenotypes”, March 30th 2005.
- 2005 Harvard Seminar Speaker Computational approaches for high throughput analyses of phenotypes: bridging the gap between clinical medicine and genome biology, Computational Biology Group at the Bauer Center for Genomics Research, *Harvard University*, May 20th.
- 2005 International Guest Speaker Knowledge-Based Bioinformatics Workshop, Ontologies, the semantic web and intelligent systems for genomics. *Concordia University*. Sept 21-23, Montreal, Canada. <http://www.cs.concordia.ca/FungalWeb/KBB.html>
- 2007 International Guest Lecturer *DAGSTUHL Seminar* 07132–“Ontology Interoperability: All you need is statistics” / ‘Toward Interoperability of Biomedical Ontologies’, 27.03.2007-30.03.2007 <http://www.dagstuhl.de/07132>

Grants, Fellowship Support and Contracts

- 1991- Senior VP of Research and Development and of International Affairs, Purkinje.com.
- 1993 Conceived, promoted and established three R&D-based fiscal shelter investments totaling \$18,000,000 (2nd, 3rd and 4th rounds of funding in the R&D of Purkinje). Managed \$4,000,000 of the total R&D budget over four years.
- 1995 PI- *Medical Research Council of Canada*, Funds of the Health Evidence and Application Linkages Network (*HEALNet-RELAIS*). Advanced Electronic Health Data Structure (phase I).

- 1996 PI- *Medical Research Council of Canada*, Funds of the Health Evidence and Application Linkages Network (*HEALNet-RELAIS*). Advanced Health Electronic Data Structure, Research on Advanced Symbolic Nomenclature-Based Retrieval and Encoding of Health Concepts (phase II).
- 1997 Co-Investigator, *Medical Research Council of Canada*, Funds of the Health Evidence and Application Linkages Network (*HEALNet-RELAIS*). Development of a Clinical Data Model and System for Home-Based Care.
Principal Investigator: T. Freeman, M.D.,
Co-Inv.: Y.A. Lussier, R. Bernstein, J. Anderson, R. Smuckler
- 1997 PI- *Medical Research Council of Canada*, Funds of the Health Evidence and Application Linkages Network (*HEALNet-RELAIS*). Advanced Health Electronic Data Structure, Research on Evidence-Based Queries of Health Databases (phase III).
- 1998-2001 Postdoctoral Research Fellowship - *Medical Research Council of Canada*
- 2001-2003 Co-investigator, NIH Grant from NLM (R01 LM06274), “Unlocking data from medical records with text processing”, (Carol Friedman overall PI - \$878,193 total award)
- 2001-2002 Co-PI, NASA Grant (VCU-528753/PO P417322, HRSA / Office of Advanced Telemedicine Grant, “VigiLENS Patient Health Monitoring”, (Edward H. Shortliffe PI - \$1,266,000 total award)
- 2002-2003 Co-PI, NASA Grant (HRSA / Office of Advanced Telemedicine Grant, “VigiLENS Patient Health Monitoring- Phase II”, (Ted Shortliffe overall PI - \$850,000 total award)
- 2002-2003 PI – NYSTAR Center for Advanced Technology Grant # 21240026, “Knowledge Base of Clinical Traits for Human Disease Genes” (\$19,000)
- 2002-2003 PI – NYSTAR Center for Advanced Technology Grant # C020054- , “Clinical-Genomics Knowledge-Bases for High Throughput Drug Discovery” (\$44,471)
- 2003/8 Co-PI, NIH Grant from NLM (R01 LM007659-01), “Capturing and Linking genomic and clinical information” (Carol Friedman PI - \$1,400,000 total award)
- 2007/7 The long-term aim of this project is to use natural language processing (NLP) to build a high throughput tool for facilitating cancer research by automatically extracting and organizing clinical and genetic information from the Electronic Medical Record (EMR) and from journal articles. Our research involves advanced NLP techniques to: 1) enable the mining of phenotypic and genotypic data in the EMR; 2) automatically amass knowledge concerned with cancer and biomolecular relationships from journals; 3) develop a WEB-enabled visualization tool for researchers that will present diverse views of the knowledge
- 2003-2004 PI – NYSTAR Center for Advanced Technology Grant # - , “Intelligent Cooperative Communications for Cross-Organization and Real-Time Responsiveness” (\$43,140)
- 2003-2007 5U54 AI057158-02 “Ian Lipkin (PI) 2003/09 – 2008/02 \$59,872,920 (Informatics Core / Lussier \$5,117,861)
NIAID Northeast Research Center of Excellence for Biodefense and Emerging Infections Diseases
This regional Center of Excellence has major basic and translational programs in six thematic areas: B-Cell related Prophylaxis and Therapeutics, Bacterial Pathogenesis and Therapeutics, Vaccine Platform, Viral Pathogenesis and Therapeutics, Smallpox Vaccine and Pathogen Detection and Diagnosis. These programs will intersect with cores that provide support in Informatics, Proteomics, Protein Expression, Monoclonal Antibodies, Animal Models and Administration.
Role: Director of the Biomedical Informatics Core
- 2004-2006 PI 1K22 LM008308-01 –2004/5 – 2007/4 \$433,445
NLM Semantic Approaches to Phenotypic Database Analysis
The long-term goal of this project is to build innovative informatics tools, capable of

automatically querying and organizing phenotypic data (traits, syndromes, etc.) across Phenotype databases, to facilitate phenotypic research that aims to unlock the gene-disease-relationships.

- 2004 5G08 LM007198-03 – Lois Blaine (PI) 2002/2 – 2005/1 \$450,000
NLM ICTVdb: The Universal Virus Information System, (Lussier: subcontract of \$80,000)
- 2004-2005 PI- John Wiley and Sons (Sponsored Research) \$200,000,
Ontology-Anchored Methods for Computable Biomedical Excerpts.
This project is designed to research and develop innovative computational methods, capable of automatically querying and organizing excerpts of scientific publications pertaining to evidence-based medicine and cancer. The long-term goal of this research is to significantly improve the recall and precision of personalized queries of the excerpts, with focus on cellular and clinical phenotypes.
- 2004-2005 PI - NYSTAR/CAT UPN: 04240001 5-67725) \$89,811
Ontology-based Retrieval of Individualized Excerpts
- 2005-2010 1U54CA121852-01A1 (9/2005 – 7/2010) Califano (PI) \$18,500,000
National Center for the Multiscale Analysis of Genomic and Cellular Networks (MAGNet) (Phenotypic NLP and Ontology / Lussier \$600,000)
Mapping transcriptional, structural, signaling, metabolic, and drug interactions is still fragmented and a homogeneous framework for the comprehensive organization and analysis of molecular cellular interactions, while still elusive, constitutes a highly relevant scientific goal. We thus propose elucidating biological function and framing quantitatively related health or disease processes using knowledge-based and physics-based methods.

Role: Project Leader, Phenotypic Natural Language Processing and Ontology

Departmental, University and Hospital Committees

- 1986 Member, Undergraduate Medical Studies Revision Committee, Faculty of Medicine, University of Sherbrooke, Canada.
- 1991-1992 Planning and Evaluation Committee of project FAMUS (Computerized Patient Record) of University of Sherbrooke, Canada.
- 2001-2003 Member, New York Presbyterian Hospital (NYPH) Patient Safety Committee
- 2002-2005 Member, NYPH/Columbia Presbyterian Medical Center IT Clinical Informatics Operations Committee
- 2003-2005 Member, NYPH Clinical Alert Committee
- 2006 Committee on Appointments and Promotions (CAOP), promotion of Dr. Paul Chang.
- 2006-present Member, Committee on Clinical Pharmacology and Pharmacogenomics, University of Chicago
- 2006-present Member, Biological Science Division Information Services Advisory Committee, University of Chicago
- 2006-present Investigator, University of Chicago Cancer Research Center
- 2006-present *President*, Biomedical Informatics Facility Advisory Committee, Biological Science Division, University of Chicago

Teaching Experience and Responsibilities

Clinical

- 1991-1996 Clinical Instructor to residents in Family Medicine, Centre Hospitalier Hôtel-Dieu de Sherbrooke, *University of Sherbrooke*, Canada
- 1994-1998 Clinical Instructor, Department of Medicine, *University of Sherbrooke*, PQ, Canada.
- 2002-2005 Clinical Instructor, Department of Medicine, *Columbia University*.

Informatics Courses

- 1986 Tétrault L, Lussier YA, Biostatistics Course - Masters in Experimental Medicine, Faculty of Medicine, *University of Sherbrooke*.
- 1992 Lussier YA . Faculty of Medicine, *University of Bangui*, Central African Republic(Invited Professor in Medical Informatics), Feb 1992.
- 1995 Côté RA; Rothwell DJ; Lussier YA; Rector A: "SNOMED International and the Computerized Patient Record". Tutorial, Proceedings of the Eighth World Congress on Medical Informatics MEDINFO '95, Vancouver, July 25.
- 1995 Rothwell DJ; Côté RA; Lussier YA; Brochu L: "*A Data Structure for Medical Language: the Extended SNOMED Model*". Tutorial, Symposium on Computer Applications in Medical Care (SCAMC), New Orleans, Oct. 28 - Nov. 1.
- 1995-1997 Lussier YA. Annual Scientific Conference of the Royal College of Physician and Surgeons of Canada. Years 1995,1996, 1997.
- 1996 Côté RA; Rothwell DJ; Lussier YA; Brochu L: "A Data Structure for Medical Language: the Extended SNOMED Model". Tutorial T40, Annual Fall Symposium on Computer Applications in Medical Care (SCAMC), Washington, D.C., Oct. 27.
- 1997 Lussier YA: "*Advanced Relational and Object-Oriented Database using the Systematized Nomenclature of Human and Veterinary Medicine - SNOMED International*". Tutorial, Canada's Health Informatics Association COACH Conference 22 / Scientific Program, Vancouver, April 14-16.
- 1997 Lussier YA; Campbell K; Spackman K: "Using SNOMED in Relational and Object-Oriented Database Designs". Tutorial, American Medical Informatics Association (AMIA) Annual Fall Symposium, Nashville, TN, October 25-29.
- 1998 Spackman K, Lussier YA, Campbell K: "Recording, Storing, and Retrieving Clinical Information Using SNOMED-RT". Tutorial, American Medical Informatics Association (AMIA) Annual Fall Symposium, Orlando, FL, Nov. 7-11.
- 1999 Lussier YA: "History of standard coding systems", G4020 Representation and Coding of Medical Data, Department of Medical Informatics and Columbia Genome Center, School of Physicians and Surgeons, *Columbia University*, Jan. 29 1999
- 1999 Lussier YA: "Software Project Management", G4098 Topics In Medical Informatics, Department of Medical Informatics and Columbia Genome Center, School of Physicians and Surgeons, *Columbia University*, Nov. 1999.
- 1999 Lussier YA: "Basic Web Design Techniques", G4030 User Interfaces in Medicine, Department of Medical Informatics and Columbia Genome Center, School of Physicians and Surgeons, *Columbia University*, Oct 4 1999.
- 1999 Lussier YA: "Advanced Web Design Techniques", G4030 User Interfaces in Medicine,

- Department of Medical Informatics and Columbia Genome Center, School of Physicians and Surgeons, *Columbia University*, Oct. 11.
- 2001 Lussier YA. “Pen-based Computing”, G4030 User Interfaces in Medicine, Department of Medical Informatics and Columbia Genome Center, School of Physicians and Surgeons, *Columbia University*, April 27
 - 2001-2004 Course Director, G4099. Research Seminars, Department of Biomedical Informatics, *Columbia University* (50 students).
 - 2003-2004 Module Instructor: “Intro to Biomedical Informatics” in BMEN E1001x Engineering In Medicine, Dept. of Biomedical Engineering, Fu Foundation School of Engineering and Applied Sciences, *Columbia University*, Oct. 27 2003, Nov. 8 2004..
 - 2003-2005 Course Director, G4055 Decision Support in Biomedicine, Department of Biomedical Informatics, *Columbia University* (24 students).
 - 2004 Module Instructor: G4099. “Computational approaches to high throughput analyses of non-molecular phenotypes” Research Seminars, Department of Biomedical Informatics, *Columbia University* (55 students), Feb 17th.
 - 2004-2005 Methods in Biomedical Informatics (G4002), 4 modules: Department of Biomedical Informatics, *Columbia University* (25 students). Modules: Theories on Biological Data, Reasoning and Logic, Biological Ontologies, Knowledge Engineering, *Columbia University*.
 - 2006 Module Instructor: “Computations with Biomedical Ontologies in Medical Applications”, Advanced Biotechniques, University of Chicago (April 19th).

Faculty Advisory Committee or Faculty Mentorship for

- Sangeeta M. Bhorade, MD, Associate Professor of Medicine, Medical Director, Lung Transplant Program, 2006-present
- Savitri E. Fedson, MD, Assistant Professor of Medicine, UC, 2006-present
- Andi Minn, MD, PhD, Instructor of Radiation & Cellular Oncology, UC, 2007-present

Graduate research advisor for

- Ying Tao, M.D., Ph.D (completed 2006). –Analyses and visualization of gene-phenotype relationship networks 2001-6, *Columbia University*
- Spiro P. Pantazatos, M.Sc., Ph.D. Candidate – Cross-Scale Mapping of Gene Expression to Neuroimaging Datasets via Semantic Decomposition, *Columbia University* 2004-2006 (one year rotation and follow-up)
- Lee Sam, M.A., Multistrategy Approaches to Retrieving Medical and Biological Evidence from Excerpts including Knowledge Extraction using Natural Language Processing, Ontologies-Anchored Classification and Case Based Reasoning. 2004-2006
- James Deitzer, Bioengineer, M.A. candidate, 2005, *Columbia University* ,Genomic Ontologies in SNOMED.
- Daniel Rappaport, M.A. candidate, 2004-2005, *Columbia University*, Natural Language Processing and Ontological Approaches to Assigning the Cellular and Anatomical Context of Genetic Expression and Case Base Reasoning of Evidence Based Medicine.
- Tzu-Lin Hsiao, M.D., PhD candidate (rotation) – Ontology-Anchored Phenomics & Anatomic, 2005, *Columbia University*
- Chintan Patel, M.Sc., PhD candidate (rotation) – Graph theoretic approaches to phenotypic integration, 2004, *Columbia University*
- James Chen, MD, (subintern) –Information theoretic Distances in Phenotypic Ontologies, 2004-2005, *Columbia University*

- Aylit Schultz, MD, (subintern) – Clinical Phenotypes of Disease Genes, 2002-2003, Columbia University
- Tara Borlawsky, M.Sc. – Distributed Knowledge Management for Clinical Alerts, 2004, Columbia University
- Xiaoyan Wang, M.Sc. – Pathway Analysis of Phenotypic Networks, 2003-4, Columbia University
- Matthew A. Neimark, M.D.Ph.D. candidate (rotation) – Terminologies & Individualized Medicine, 2002, Columbia University
- Te-Hui Kuo, M.D., M.A. (Post-Doctoral Fellowship) – Mining Drug-Disease Contraindications, 2001-2003, Columbia University
- Chani Weinreb PhD candidate (rotation) – Biomedical Database Interoperability, 2001, Columbia University
- Huinar Quek, M.A. – Biomedical Database Interoperability, 2002-2003, Columbia University- currently Senior Medical Informatics Consultant, Ministry of Health (Singapore), Visiting Lecturer, Biomedical Engineering Program, Nanyang Technological University

Fellowship advisor for

- Tanguy Seiwert, MD (Microarray Analysis), Pulmonary Fellow, 2006-present.
- Chern-Sing Goh, Ph.D. (Post-Doctoral Fellowship) – Prokaryotic Phenome -2004-2005, Currently post-Doctoral Fellow at Gerstein Laboratory – Yale University.
- Hedi Hegyi, Ph.D., (Post-Doctoral Fellowship) , Columbia University – Design of Microarray for Molecular Medicine, 2004-2005 –Currently Fellow at the Institute of Enzymology, Hungary
- Michael Cantor, M.D. M.Sc. (Post Doctoral fellowship) – Genomic Medicine, 2001-2004, Columbia University – Currently Chief Medical Officer in Bellevue Hospital of New York University
- Vincent Delbagnò, M.D., M.A. (rotation) – Business Informatics, 2004, Columbia University

Academic advisor for

- Pallav Sharda, M.A., 2002-2003, Columbia University
- Vincent M. Delbagnò, M.D., M.Sc., 2002-2004, Columbia University
- Jianbo Lei, M.D., M.Sc., 2002-2004, Columbia University
- Kwok-Tim Chan, M.D., M.Sc., 2003-2004, Columbia University; currently Senior Medical Officer (Communicable Disease Information System), Surveillance and Epidemiology Branch, Centre for Health Protection, Department of Health, Hong Kong.
- Sameer Malhotra, M.B.B.S., M.A., 2003-2004, Columbia University.

Other graduate research advisory roles for

- Ankit Desai, 2006-present, University of Chicago (preliminary studies and K-award revisions)
- Michael Bales, Ph.D. Candidate, 2005-present, Columbia University
- Jeeyai Choi, Ph.D., 2002-2003, Columbia University
- Paola Karina Tulipano, M.A., Ph.D. Candidate, 2003-2004, Columbia University
- Neil Sarkar, Ph.D., 2002-2004, Columbia University

Other Professional Activities

Board of Directors Positions

- 1983-1984 Council of the Faculty of Engineering, University of Sherbrooke (two mandates), Canada.
- 1985-1986 Council of the Faculty of Medicine, Université de Sherbrooke, Canada.
- 1992-1995 Board of Directors, Purkinje Inc. (advanced electronic medical records),

<http://www.Purkinje.com>

- 1994-1997 Council of Physicians, Dentists and Pharmacists of the Centre Hospitalier Hôtel-Dieu de Sherbrooke (CMDP-HDS).
- 1996-1997 Council of Physicians, Dentists and Pharmacists of the University of Sherbrooke Hospitals and Medical Centers (CMDP, CUSE-CHUS-HDS-HSVP).
- 2002-2004 Board of Directors, Medical Informatics and Technology Applications Consortium (MITAC), a NASA Space Partnership Development.
- 2003-2006 Governance Board, Northeast Research Center of Excellence in Biodefense and Emerging Infectious Diseases. <http://www.nbc.columbia.edu/>
- 2006-present Advisory Board, UC Lung SPORE application

Senior Management Positions

- 1982-1983 President, Engineering Student Association (AGEG) of the University of Sherbrooke, Canada.
- 1983-1998 Founder and President, YAL Inc.
- 1990-1994 Co-instigator, Inventor, Senior Director of Research, Medical Development of Purkinje Inc., <http://www.purkinje.com/>
- 1994-1997 Director of Quality of Health Care, University of Sherbrooke Hospitals and Medical Centers (CHUS), Canada (CMDP).
- 2001-2006 Clinical Director, Center for Advanced Technology and Information Management – Columbia Genome Center, Department of Biomedical Informatics and Department of Computer Science, Columbia University.
- 2003-2006 Director, Biomedical Informatics Core, Northeast Research Center of Excellence in Biodefense and Emerging Infectious Diseases. <http://www.nbc.columbia.edu/>
- 1993-present Co-Founder and President, Accurate Informatics and Medicine Inc.
- 2006-present Associate Director for Informatics, University of Chicago Cancer Research Center
- 2006-present Director, Center for Biomedical Informatics, Dept. of Medicine, University of Chicago

Professional Positions

- 1982-84 Computer Analyst & Programmer (part time) to Dr. Léon Tétrault, M.D. PhD., developed a comprehensive clinical trial and analytic information system used in three consecutive trials phase 3a and 3b.
- 1982,83,84 Computer Analyst, three four-month internships, Québec, IBM Canada.
- 1984 Product Engineer, one four-month internship, IBM Canada, Toronto, Canada.
- 1985-1989 Research assistant (part time) in renal physiology, Dr Gérard E. Plante MD, PhD, Director of Department of Physiology, Faculty of Medicine, Université de Sherbrooke, Canada.
- 1995-2001 Associate Researcher, Clinical Research Center of the “Center Hospitalier Universitaire de l’Université de Sherbrooke”.

Consultantship

- 1994-1995 Scientific advisor, Hoechst Marion Roussel, Clinidata Division
- 1997-1998 Scientific advisor, Purkinje.com
- 1983-1998 Consultant, medical and pharmaceutical informatics, YAL, Inc. (1983-1993), Accurate Informatics and Medicine Inc. (1993-1998).
- 1999-2001 Consultant, Center for Advanced Technology and Information Management – Columbia Genome Center, Department of Medical Informatics and Department

of Computer Science, Columbia University.

- 2000-2001 Consultant, Columbia Innovation Enterprise / Columbia Technology Transfer / Columbia Venture Partnerships, Columbia University.

Intellectual Property

- Patent: 20060074991 - System and method for generating an amalgamated database. Clinigene. International Patent Application No. PCT/US03/35470, filed on November 6, 2003, published as WO 2004/044818 on May 27, 2004, which claims priority to provisional U.S. application No. 60/424,728, filed November 6, 2002. Lussier YA, Cantor M, Sarkar IN.
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- Invention report on DynaTreeviewer, Liu HF, Lussier YA, Friedman A (2002).
- Invention report on Phenogene Discovery System, Friedman A, Lussier YA, (2004).
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- Invention report on Phenogene Viewer, Tao Y, Lussier YA, Friedman C (2004).
- Invention report on Nondeterministic Model Theoretic Mapping between Heterogeneous Databases, Lussier YA, Li J (2004).
- Invention report on the BioMedLEE Natural Language Understanding System for Gene-Phenotype extraction and coding from the literature, Friedman A, Lussier YA, Shagina L (2005).
- Invention report on Flat Treeviewer. Sam L, Lussier YA. (2005)
- Invention report on User-Directed Pearls of Knowledge. Lussier YA, Sam L, Borlawsky T. (2005).
- Invention report on VigiLENS server-based and ontology-driven event monitor (2005), Lussier YA, Shortliffe EH, Li J, Kamasumadram N, Hripcsak G, Cimino J, Forman B, Wajngurt D, Johnson J, Sengupta S.

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- 2 Lussier A*; Davis A; **Lussier YA**: "Comparative Gastrointestinal Blood Loss Associated with Placebo, Aspirin and Nabumetone as Assessed by Radiochromium (⁵¹Cr)". *Journal of Clinical Pharmacology* 1989;29(3);225-228.
- 3 **Lussier YA***: "Le Dossier Patient Informatisé sur ardoise électronique: le défi de Développement Purkinje". *Canadian Medical Informatics*, vol.1, no. 1, May/June 1994, pp.46-47.
- 4 **Lussier YA***: "Scientific Medicine in Need of a Standardized, Coded Nomenclature". *Canadian Medical Informatics* 1994;1(4)Nov./Dec52-53.
- 5 **Lussier YA***; Côté RA: "Are We Closer to Standard Medical Coding?". *Canadian Medical Informatics* 1995;2(5) sept19.
- 6 **Lussier YA***; Rothwell DJ; Côté RA: "The SNOMED Model: A Knowledge Source for the Controlled Terminology of the Computerized Patient Record". *Methods of Information in Medicine* 1998;37;160-164.
- 7 Liu H, **Lussier YA**, Friedman C*. "Disambiguating Ambiguous Biomedical Terms in Biomedical Narrative Text: An Unsupervised Method". *J Biom Inform* 2001;34,249-261.

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- 20 Palacios G*; Quan P-L*; Jabado O; Hirschberg D.; Liu Y; Zhai J; Renwick N; Canlon S; Hui J; Heygi H; Grolla A; Towner J; Sanchez-Seco MP; Büchen-Osmond C; Nichol S; Jahrling P; **Lussier YA**; Feldmann H; Briese T; Lipkin WI. Differential Diagnosis of fatal Hemorrhagic Fever by Pan-Microbial DNA Array. *Emerging Infectious Diseases*, 2006 13(1):73-81.
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- 33 **Lussier YA***, Kukafka R, Patel VL, Cimino JJ: "Formal Combinations of Guidelines: A Requirement for Self-Administered Personalized Health Education". *Journal of the American Medical Informatics Association (JAMIA)*. supplement 2000:522-6.
- 34 **Lussier YA**, Shagina L, Friedman C. Automating SNOMED coding using medical language understanding: a feasibility study. *Proc AMIA Annu Fall Symp.* 2001;:418-22.
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- 36 Kukafka R[§], **Lussier YA**[§], Patel VL, Cimino J. 2001. Developing Tailored Theory-Based Educational Content for WEB Applications: Illustrations from the MI-HEART Project. *Medinfo* 2001. 10(2):1474-8.
- 37 Kukafka R[§], **Lussier YA**[§], Patel VL, Cimino JJ. Web-Based Tailoring and its Effect on Self-Efficacy. Results of the MI-HEART Randomized Controlled Trial. *Proc AMIA Annu Fall Symp.* 2002;:410-4.
- 38 Cantor MN, **Lussier YA***. A knowledge framework for computational molecular-disease relationships in cancer. *Proc AMIA Annu Fall Symp.* 2002;:101-5.
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- 53 Sam L, Li J, Liu Y, Friedman C*, **Lussier YA***. Discovery of Protein Interaction Networks Shared by Diseases. *Pacific Symposium on Biocomputing*, 12:76-87(2007).
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- 54 Pantazatos SP, Jianrong Li, Pavlidis P, Van Horn JD, **Lussier YA***. Cross-Scale Mapping of Gene Expression to Neuroimaging Datasets via Semantic Decomposition. Submitted to *MEDINFO 2007*.
- 55 Liu Y, Sam L, **Lussier YA***. Robust Methods for Accurate Diagnostic Using Highly Multiplexed Microbiological Arrays. Submitted to *ISMB 2007*.
- 56 Sam L, **Lussier YA***. Information Theoretic Summarization of Massive ontologies. In preparation for AMIA 2007.
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Invited Conference Papers

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- 59 **Lussier YA***; Rothwell DJ: "Coding panel on SNOMED". Moving Toward International Standards in Primary Care Informatics: Clinical Vocabulary, American Medical Informatics Association (AMIA) Family Practice / Primary Care Working Group, *International Medical Informatics Association (IMIA) Working Group V*, New Orleans, November 1-2, 1995.

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- 64 **Lussier YA***: Chapter 99 on "Ontologies and Natural Language Processing". Russ Altman, Shankar Subramaniam. Volume 4: Bioinformatics. *Encyclopedia of Genetics, Genomics, Proteomics and Bioinformatics*, John Wiley & Sons, (2005 pp. 1-17 specialist review).
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- 66 **Lussier YA***, Bodenreider O*., Clinical Ontologies for Discovery Applications. P.101-119 Christopher Baker and Kei Cheung, Editors. *Semantic Web: Revolutionizing Knowledge Discovery in the Life Sciences*. Springer Verlag 2007, XXII, 450 p.

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- 104 **Lussier YA***: "Measuring the Accuracy of a Nomenclature Encoder Supporting Postcoordination" *American Medical Informatics Association (AMIA) Annual Fall Symposium*, Orlando, FL, November 7-11, 1998, *AMIA Annu Symp Proc.* p.1039.
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§ These authors have contributed equally to the work.

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- 125 **Lussier YA***. Computational Ontologies for High Throughput Visualization and Analyzes of the Phenome. *Standards and Ontologies For Functional Genomics 2*, Oct 23-26, 2004, University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania.
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Miscellaneous Publications

- 142 **Lussier YA:** "Les techniques de résolution de problèmes". University of Sherbrooke, Faculty of Engineering, University of Sherbrooke, *Le Sagace*, vol. 5, no. 7, August 1985.
- 143 **Lussier YA:** "The excellence of education and research in Family Medicine: essential objectives for the influence of the College (L'excellence de l'éducation et de la recherche en médecine familiale: des objectifs essentiels au rayonnement du Collège)". *Collège des médecins de famille du Canada*, section Québec. News Bulletin, vol. 4, Autumn 1992, p.2.
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Grand Rounds and Invited Clinical Lectures

- 145 **Lussier YA.** One-Day Postgraduate Course on Computers in Medicine from the *Royal College of Physicians and Surgeons of Canada*, Halifax, Sept. 26, 1996. Internet workshops, "Computer basics for beginners".
- 146 **Lussier YA.** "Introduction à l'Internet pour la médecine interne et spécialisée". *Seminar, Department of Medicine, Faculté de Médecine*, Université Laval, Quebec City, PQ, February, 1997.
- 147 **Lussier YA.** "Introduction à l'Internet pour le médecin omnipraticien". *Continuous Medical Education, Fédération des Médecins Omnipraticiens du Québec*, Sherbrooke, May 1, 1997.
- 148 **Lussier YA.** "Dossier médical informatisé: Introduction à l'Internet pour médecins et chirurgiens". Seminar, *Faculty of Medicine, Université de Sherbrooke*, May 30, 1997.
- 149 **Lussier YA.** "Introduction to the Internet and Related Software: Medical Terminologies : from ICD to SNOMED and its Use in Computerized-Patient Records for Research and Office Use". Postgraduate course on Computers in Medicine from the *Royal College of Physicians and Surgeons of Canada*, Vancouver, Sept. 25, 1997.
- 150 **Lussier YA.** "Methods and preliminary results of the MI-HEART Clinical Trial." Grand Rounds, *St. Vincent's Hospital, Bridgeport*, CT, Nov. 27, 2001..
- 151 **Lussier YA.** "Clinical Genomics." Grand Rounds, *NYPH Allen Pavilion*. 3/20/2003.
- 152 **Lussier YA.** "Clinical Genomics Updates." Grand Rounds, *NYPH Allen Pavilion*, New York. 7/15/2004.
- 153 **Lussier YA.** SNOMED and the Art of Bioinformatics. SNOMED CT® Implementation Solutions: The Future is Now, 6th *Annual SNOMED International Users Group*, September 22-24, 2004, Phoenix.
- 154 **Lussier YA.** "Clinical Genomics Technologies, Updates." Grand Rounds, *NYPH Milstein Hospital*, New York. Nov 2nd 2004.
- 155 **Lussier YA.** Computational Systems Biology and Medicine: Approaches to high throughput and large scale analyses of phenotypes. *Conference Series of General Internal Medicine of the Dept of Medicine, Columbia University*, 11/05/2005.
- 156 **Lussier YA.** "Predicting the Molecular Underpinnings of Complex Phenotypes with High Throughput Phenomics". *Grand Rounds of Rheumatology*, The University of Chicago, Feb 13 2007.
- 157 **Lussier YA.** "Computational Approaches to Unveiling Novel Protein-Protein Interactions in Diseases". *Emergency Resuscitation Center*, The University of Chicago, Feb 22 2007.
- 158 **Lussier YA.** "High-Throughput Analysis of Novel Protein-Protein Interactions in Diseases". *Breast Cancer Seminar Series*, The University of Chicago, April 3 2007.
- 159 **Lussier YA.** Translational Bioinformatics: Desiderata for well designed research databases & Analysis of molecular, genetic, genomic, biological and clinical data. *Advanced Topics in Clinical Series, Dept. of Medicine, The University of Chicago*, 2007.

Invited Scientific Lectures and Invited Conference Panels

- 160 **Lussier YA.** "Remote Product Engineer Function in a Product Development Cycle". *IBM Canada Administrators and Engineers Work Term Meeting*, Toronto, August 1984.
- 161 Lussier A; Arseneault A; Varady J; **Lussier YA**; Lebel E: "Safety of NSAIDs". *Syntex Round Table*, Paris, July 12, 1987.
- 162 Lussier A; De Médicis R; **Lussier YA**: "Appareil locomoteur: du coup de foudre diagnostique à l'algorithme sémiologique". Rheumatology Service, *Centre Hospitalier Universitaire de Rangueil*, Toulouse, March 15, 1991.
- 163 **Lussier YA***; Côté RA: "La SNOMED: l'assise de la recherche médicale informatisée". Seminars, *Université de Sherbrooke*, QC, June 5, 1995. (Invited lecturer)
- 164 Kukafka R, **Lussier YA**, Cimino JJ: "MI-HEART: A computer-tailored intervention to reduce prehospital delay in patients at high risk for acute myocardial infarction", *National Heart Attack Alert Program Coordinating Committee Meeting*, Reston, Virginia, October, 2000.
- 165 **Lussier YA.** "Meet the Early Adopters: Lessons Learned and Benefits Gained". *American College of Pathology - SNOMED Users' Group Conference*, Los Angeles, CA, Nov. 3, 2000.
- 166 **Lussier YA.** "Clinical Genomics." AIM Clinic Meeting House Staff - Milstein Hospital, NYPH, New York, NY, May 19th, 2003.
- 167 **Lussier YA.** Database Schema for Clinical Genomics. First Genetic Trust, Sept. 2003, New Jersey.
- 168 **Lussier YA.** "Phenotypic Networks and the Art of Bioinformatics" University of Buffalo Center of Excellence in Bioinformatics. 5/6/2004.
- 169 Friedman C, **Lussier YA.** Biomedical Informatics Tools for Curators. *Jackson Laboratories*, Mouse Genome Informatics, June 29, 2004, Bar Harbor.
- 170 **Lussier YA.** Phenomic Program of the Lussier Research Group. *IBM Watson Laboratories*, Hawthorne.. Nov 3rd 2004.
- 171 **Lussier YA.** "Hypothesis-Driven Computational Methods for Molecular Medicine and Systems Biology: Genome Scale Integrative Analyses of Phenotypes". School of Health Information Science in *The University of Texas Health Science Center at Houston*, 6/8/2005.
- 172 **Lussier YA.** "Computational approaches for genome scale analyses of phenotypes: bridging the phenotypic gap between clinical repositories and model organism databases". Center for Genetic Medicine and Dept. of Cell and Molecular Biology, *Northwestern University Medical School*, Chicago, June 13th 2005.
- 173 **Lussier YA.** "Research Technical Discussions on Ontologies in Biomedicine", Industry Solution Laboratory, *IBM Watson Research Center*, Hawthorne, NY, July 8th, 2005.
- 174 **Lussier YA.** "Computational approaches for genome scale analyses of phenotypes: improving the understanding of biological systems and the diagnosis of diseases" Department of Pathology, Division of Biological Sciences, *University of Chicago*, July 12th 2005.
- 175 **Lussier YA.** "Systems Biology approaches to the Metagenomic Analysis of Phenotypes". Department of Biomedical Informatics, *Vanderbilt University*, Nashville, August 11th 2005.
- 176 **Lussier YA.** "Bridging the Phenotype Gap: Ontology-Anchored Computational Methods for Biomedicine". Knowledge-Based Bioinformatics Workshop Hosted by the *Genome Québec* funded project: Ontologies, the semantic web and intelligent systems for genomics. September 21st - 23rd 2005; Montréal, Québec, Canada.
- 177 **Lussier YA.** Bio-ontologies and Database Integration. Buffalo-Columbia workshop on ontology and cancer bioinformatics. *New York State Center of Excellence in Bioinformatics and Life Sciences*. Friday, October 14 2005, 280 Park Hall, University at Buffalo.
- 178 **Lussier YA.** "Collecting and Integrating Phenotypic Information from Multiple Databases for Correlation with Genomic Databases. *Toyota Technological Institute* at Chicago, 4/10/2006.
- 179 **Lussier YA.** Systems Properties in a Comprehensive Genomic Networks. Computation Institute, University of Chicago, July 2006.
- 180 Kann M, Ofra Y, Punta M, Radijovac P, **Lussier YA**, Panelists. Discussion Session: Protein Interactions in Diseases. Pacific Symposium in Biocomputing, Jan 4th 2007, Maui.

- 181 **Lussier YA**. Phenomic Data and its Valuation Chain. *Computational Biology Seminar, Division of Molecular and Computational Biology, Dept. Computational Biology & Bioinformatics, University of Southern California*,
- 182 **Lussier YA**. Emerging Systems Properties in High Throughput Phenomic Studies. *Annual CI Fellows meeting, Computation Institute, University of Chicago, February 21, 2007.*
- 183 **Lussier YA**. Emerging Systems Properties in a Comprehensive Genomic Network of Prokaryotic Traits. *Mathematics for Systems Biology Seminar Series: "Emergence in Complex Systems"*, Computation Institute, University of Chicago, February 22, 2007.
- 184 Sam L, Li J, Liu Y, Friedman C, **Lussier YA***. Predictions of Phenotypic Biomodules in Protein Interaction Networks. *Annual meeting of the National Research Center for Multiscale Analyses of Genomic and Cellular Networks (MAGNET)*, Wavehill, NY, April 6, 2007.
- 185 **Lussier YA**. '*International Conference on Biomedical Ontologies (ICBO)*', (invited for 2007).