

Yves A. Lussier, MD, FACMI

Section of Genetic Medicine, Department of Medicine, The University of Chicago

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Education and Training

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

Predoctoral Research Training

- 1982-3 Research Student, Dept. Medicine (Mentor: L. Tétrault, MD PhD), Univ. of Sherbrooke, Canada
1986-8 Research Student, Dept. Human Physiol. (Mentor: G. Plante MD PhD), Univ. of Sherbrooke

Post-Doctoral Training (traineeship)

- 1989-1990 Internship, CHUL (Centre Hospitalier Universitaire, Laval University Hospital), Quebec, Canada
1990-2 Resident in Family Medicine, CHUS (Centre Hospitalier Univ, Univ of Sherbrooke Hospital), Canada
1998-2001 Post-Doctoral Research Fellowship, Dept. of Biomedical Informatics, College of Surgeons and Physicians, Columbia University, New York, NY.

Licensure

- 1985 Quebec Professional Engineering License
1989-present License of the Medical Council of Canada
1991-present Full Medical License, College of Physicians of Quebec
1998-2007 Full Medical License, College of Physicians and Surgeons of Ontario
2001-6 Full Medical License, Office of the Professions, State of New York

Board Certifications

- 1991 Board Certified, College of Family Physician of Canada
1998 Recertification, College of Family Physician of Canada

Academic and Clinical Appointments

Academic Appointments

- 1994-2001 Adjunct Professor, Dept. of Family Medicine, Univ of Sherbrooke (sabbatical leave: 1998-2001)
1995-2001 Associate Researcher, Clinical Research Ctr of the University of Sherbrooke Hospital (CHUS).
2001-6 Assistant Professor, Departments of Biomedical Informatics (2001-6) and Medicine (2002-6), 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 Member, University of Chicago Cancer Research Center
2006-present Faculty, Department of the Molecular Pathogenesis and Molecular Medicine Program
2006-present Fellow, Computation Institute of The University of Chicago and Argonne National Laboratory
2009-present Member, Committee on Genetics, Genomics and Systems Biology, The University of Chicago.

Clinical Appointments

- 1992-2000 Attending Physician (hospitalist, ER, and intensive care), Hôtel-Dieu Hospital of Sherbrooke (1992-7), Integrated to the Centre Hospitalier Universitaire de Sherbrooke (1997-2000).
1992-9 Medical Staff, Vimy Clinic ('92-96), St-Vincent Clinic ('96-99), Sherbrooke, Canada.
2001 Attending Physician, Emergency Medicine Department, Windsor Hospital, QC, Canada.
2002-5 Attending Physician, Department of Medicine, Columbia University Medical Center and New York Presbyterian Hospital

Societies and Associations

1985-9	CCPE	Canadian Council of Professional Engineers
1992-6	CRCQ	Clinical Research Society of Quebec (Club de Recherche Clinique du Quebec)
1991-8	COACH	Canadian Medical Informatics Association
1993-5	IEEE	Institute of Electrical and Electronics Engineers
1989-2007	CMA	Canadian Medical Association
1990-present	AMIA	American Medical Informatics Association
2005-present	ACMI	American College of Medical Informatics
2007-present	ISCB	International Society for Computational Biology
2010-present	SCTS	The Society for Clinical and Translational Science

Honors, Awards

Academic Honors

- 2003-4 Three **IBM Faculty Awards** for the *VigiLENS* event monitor (6/15/2003; 12/22/2003, 6/9/2004) http://www.cumc.columbia.edu/news/in-vivo/Vol3_Iss08_july_04/around_and_about.html
- 2004 1st Awardee, **Columbia University Faculty Mentoring Award**, Biomedical Sciences and Graduate School of Arts and Science, <http://home.uchicago.edu/~lussier/FacultyMentoringAward-Lussier.jpg>
- 2005 Inducted **Fellow American College of Medical Informatics (ACMI)** <http://amia.org/college/>
- 2008-10 Four **“Outstanding Paper” Awards** from the American Medical Informatics Association (AMIA)
- 2008: “Robust Methods for Accurate Diagnosis Using Microbiological Arrays”. <http://lussierlab.org/publications/Lab-Awards/Lussier-2008-award.pdf>
 - 2008: “PhenoGO: A Resource for Mining Multiscale Biological and Clinical Data”. http://lussierlab.org/publications/Lab-Awards/Lee-Sam-amia_award.pdf
 - 2009: “Mechanism-Anchored Profiling derived from Epigenetic Networks Predicts Outcome in Acute Lymphoblastic Leukemia” <http://lussierlab.org/publications/Lab-Awards/XinanYang.pdf>
 - 2010: “Stromal Microenvironment Processes Unveiled by Biological Component Analysis of Gene Expression in Xenograft Tumor Models”. <http://lussierlab.org/publications/Lab-Awards/AMIA-2010.pdf>

Student and Corporate Awards

- 1983-7 • *IBM* (1983); • best mech. engineering student (1984, *Qc Iron and Titanium*)
- 2x best grad. research student at Univ. Sherbrooke (1986,1987, *Fond Recherche Scientif. Qc –FRSQ*)
- 1994 *Fédération de l’Informatique du Québec* (>2,500 members, > 1,100 organizations).
- “Octas of Excellence”, • “Octas of Innovation”, (best and most innovative software of the year), As VP of clinical R&D at Purkinje Inc. for the Innovation and excellence of the electronic medical record: *Dossier* <http://www.actionti.com/octas-1994> <http://www.actionti.com/accueil/octas/historique-des-octas/octas-de-l-excellence>

Academic Administrative Appointments

Translational Bioinformatics (1-2 of 4)

1- Northeast Research Center of Excellence in Biodefense and Emerging Infectious Diseases (NBC-Northeast Biodefense Center, NIAID-funded)

- 2003-6 Governance Board Member <http://www.nbc.columbia.edu/>
- 2003-6 Director, Biomedical Informatics Research and Service Core

2-University of Chicago Institute for Translational Medicine (ITM) & CTSA-related

- 2006-present Director, ITM Biomedical Informatics Core (from 2011-present; co-Director from 2006-2011)
- 2007 Committee Member, CTSA Biomedical Informatics Core Advisory Committee
- 2007-present Committee Member, CTSA Executive Committee
- 2008-present Informatics Education Director, Committee on Clinical and Translational Science (CCTS)
- 2011-present Dept of Medicine Research Committee

Translational Bioinformatics (3-4 of 4)

3-Comprehensive Cancer Center, University of Chicago (UCCCC)

- 2006-present Associate Director for Informatics
- 2006-present Investigator, Program 4: Clinical and Experimental Therapeutics
- 2006-present Member of the Advisory Committee and the Executive Committee (2009-present)
- 2008-present Member, Ludwig Center for Metastasis Research

4-Academic Research Centers and Institutes

- 2004-6 NLP & Ontology Lead, Columbia Center for Comput. Biology and Bioinformatics (C2B2)
- 2007 –present Fellow, Inst. for Genomics & Systems Biol (IGSB), Univ of Chicago & Argonne Laboratory.

Medical Center Governance, Quality of Care and Patient Safety

- 1994-7 Director, Board of Physicians, Dentists & Pharmacists University of Sherbrooke Hospitals
 - Role: governance of the medical center and quality of care, six elected directors
 - Centre Hospitalier Hôtel - Dieu de Sherbrooke (HDS) 1994-7,
 - Consortium of four hospitals: Center Hospitalier Univ de Sherbrooke (CHUS) + HDS 1996-7.
- 2001-3 Committee Member, New York Presbyterian Hospital (NYPH) Patient Safety Committee
- 2003-5 Committee Member, NYPH Clinical Alert Committee

Information Technology and Technology Transfer Positions

-University and Medical Center

- 2001-6 Clinical and Adjunct Assoc. Director, Center for Advanced Technology and Information Mgmt for the Genome Ctr and Depts of Biomed Informatics and Comput Sc, Columbia University.
- 2002-5 Committee Member, IT Clinical Informatics Operations Committee of the New York Presbyterian Hospital (NYPH) and Columbia Presbyterian Medical Center (CPMC).
- 2007-present Service Oriented-Architecture (SOA) Governance Working Group, Univ of Chicago Medical Ctr
- 2008-10 Committee Member, UChicagoTech Faculty Advisory Committee.
- 2008-11 The Board of Computing Activities and Services (BCAS), The University of Chicago

-Schools & Departments

- 1991-2 Planning and Evaluation Committee of the pan-Canadian risk register for primary care led by the Dept. of Family Medicine of University of Sherbrooke (FAMUS).
- 2006-7 Ad hoc member (2006) and consultant (2007) for promotion of informaticians faculty, Committee on Appointments and Promotions (CAOP), University of Chicago.
- 2006-8 Biological Science Division Information Services Advisory Committee, University of Chicago
- 2006-9 Chair, Velos Clinical Trial Mgmt System Advisory Committee, BSD, Univ of Chicago
- 2006-9 Chair, Biomed Inform. Facility Advis. Comm, Shared Research Facilities, Univ Chicago BSD
- 2006-present Director, Center for Biomedical Informatics, Dept. of Medicine, University of Chicago
- 2007 Recruitment Committee for the Director of the Microarray Facility, Univ of Chicago BSD Cores
- 2007-present Initiative in Biomed Inform (IBI) Advisory Committee, Univ of Chicago BSD

Education Steering Committees

- 1983-4 Executive Board of the School of Engineering, University of Sherbrooke, Canada
- 1985-6 Executive Board of the School of Medicine, University of Sherbrooke, Canada
- 1986 Undergrad Medical Studies Revision Committee, School of Medicine, Univ of Sherbrooke

Conference Founder

- 2007 **MSCBB** - *Midwest Symposium on Computational Biology and Bioinformatics*
• Founding co-chair and member of the Scientific Program Committee in 10/6/2007.
- 2008 *Ontology of Cellular Networks*, Newark, NJ 3/26-27 (with B Smith & A Ruttenberg), NIH funded
- 2008 *Cancer Informatics Symposium*, University of Chicago Comprehensive Cancer Center
- 2008 **AMIA STB**- *AMIA Summit on Translational Bioinformatics* (A Butte – overall conf founder)
• 2008: Founding Session Chair, co-organizer and member of Scientific Program Committee
• 2009: Conference Chair and Chair of the Scientific Program Committee
• 2010: member of the Advisory Committee
- 2009 **ICBO** - *International Conference on Biomedical Ontology* <http://icbo.buffalo.edu/>
• 2009 Founding Scientific Committee • 2010 Scientific Committee
- 2011 **TBC**- *Translational Bioinformatics Conference* (Founding Organizing Committee Member)
• 1st meeting planned in Seoul 11/11/2011 (org. meeting held at APBC 1/13/2011)

Commencement and Keynote Lectureships

- 2001 Commencement Speaker, Medical Information Systems Technology (MIST) Program, *State University of New York Downstate Medical Center*, New York, Oct 16
- 2002 *Annual Meeting of the Canadian Institute for Health Information (CIHI)* Keynote Speaker.
- 2003 *Special Libraries Association Conference*, Keynote Speaker
- 2004 *Columbia University PhD Convocation Faculty Address*, “The Subculture of One’s Specialty in Graduate Studies”, 5/17/2004.
- 2006 *NIH National Library of Medicine Annual Investigator’s Address to the Board of Regents*. “Collecting Phenotypic Information from Multiple Databases for Correlation with Genomics”.
<http://www.nlm.nih.gov/od/bor/2-06bor.pdf>
- 2009 *IEEE International Workshop on Genomic Signal Processing and Statistics (GENSIP)* “Using Phenomic Networks for Therapeutic Target and Biomarker Discovery”. Keynote Speaker,
<http://syen.ualr.edu/gensips2009/>
- 2010 • *1st Congress of Personalized Medicine*, Shanghai. Keynote Speaker, <http://www.bitlifesciences.com/mdpm2010/>
• *Joint Wellcome Trust Sanger Institute & European Bioinformatics Institute (EBI) 1st CALB Workshop on the Collaborative Annotation of a Large Biomedical Corpus Challenge*. “Quantized phenotypes emerge as multiscale mechanisms underpinning complex traits”. Cambridge, UK. Keynote Speaker
<http://www.ebi.ac.uk/Rebholz-srv/CALBC/workshop1/>
- 2011 *Network Tools and Applications in Biology (NETTAB 2011)*; <http://www.nettab.org/> Pavia, Italy. Keynote Speaker

Editorial Boards, Scientific Review Boards, Journal and Grant Review Committees

NIH/ National Library of Medicine

- 2005-6 Long Range Plan 2006-2016 (Panel 4): Support for Genomic Science of the 21st Century,
<http://www.nlm.nih.gov/pubs/plan/>
- 2011-present BLIRC- The Biomedical Library and Informatics Review Committee (NLM grant reviews) – appointment starting June 2011 (4 year term)

Guest Editor of Journals

- 2008 *BMC Bioinformatics* 10(2008), Selected proceed. of the 2008 Summit on Translat. Bioinform
- 2009 *BMC Bioinformatics* 10(2009), Selected proceed. of the 2009 Summit on Translat. Bioinform
- 2009-10 *J Biomed Inform* 42(2009), Special Issue on Method. for Translational Bioinformatics

Editorial Boards

1993-5	CMI - Canadian Medical Informatics Journal
2003-7	SNOMED International Editorial Board, College of American Pathologists
2005-7	CBM - Associate Editor, Computers in Biology and Medicine, Elsevier
2006-present	JBI - Journal of Biomedical Informatics, Elsevier
2007-9	IHTSDO - Internat. Health Terminology Std Develop.Org http://www.ihtsdo.org/ (SNOMED)
2008-present	Genomic Insights, Libertas Academica (Honorary Editorial Board Member)
2010-present	JPM - Journal of Personalized Medicine http://www.mdpi.com/journal/jpm/editors/
2010-present	JAMIA - Journal of The American Medical Informatics Association, British Medical J Group

Scientific Review Boards

2002-4	MITAC Board of Directors, Medical Informatics and Technology Applications Consortium, a NASA Space Partnership Development
2002-4	McGill “Infostructure de Recherche Intégrée en Santé du Québec” (IRIS)
2003-5	First Genetic Trust
2004-present	Cerner Corp. (Ontology Board) https://www.clinbioinformatics.org/cbopublic/board.aspx
2005-6	IBM Healthcare & Life Sc., Primary Academic Partner of IBM Center for Computat Medicine
2006	University of Chicago Lung SPORE application
2008-present	Consortium Neuropsychiatric Phenomics (annual review) www.phenomics.ucla.edu
2009	Collaborative Annotation of a Large Biomedical Corpus http://www.calbc.eu/
2010	Univ of Texas M.D. Anderson Cancer Center, Electronic Medical Record Peer Review Panel
2010-present	Worldwide Innovative Networking in Personalized Cancer Medicine www.winconsortium.org/

Grant Review Committees

2002-5	CAT Grant Review Committee, Columbia Center for Advanced Technology
2003	NSF TATRC Grant Review Panel, “Information Technology Research” Medium Panel, 4/28-30/03
2003	TATRC Homeland Security Product Line Review, Telemed and Adv Technology Research Ctr 8/5/03
2003	NIGMS MIDAS, Pilot projects for models of infectious disease agent study, 11/12-3/03.
2006	NIH CSR, Biodata Management and Analysis (BDMA), 6/12-13/06 6/4-5/07
2007	The Israel Science Foundation (ISF), Phenomic Applications
2009	NIH/NLM Ad Hoc Committee reviewing the EUREKA grants (RFA-GM-09-008.html)
2009	Mail Reviewer. ZRG1 OTC-K (58) RC1 COI
2009	Risk, Prevention & Health Behavior IRG , National Institutes of Health CS 11/13/09
2011	NIGMS NIH National Institute of General Medical Sciences. Ad hoc review of the Glue Grants.

Journal Manuscript Review

- Clinical Journals:** • Clinical Pharmacology & Therapeutics • Drug Discovery Today • Expert Rev. Mol. Diag. • New England Journal of Medicine • Science Translational Medicine
- Biological Journals:** • Molecular Systems Biology • Nature Biotechnology
- Proceedings of the National Academy of Science (PNAS) • Protein
- **Genetics, Genomics and other molecular scale Journals:** • BMC Medical Genomics • BMC Genomics
- Drug Discovery Today • Genetic Epidemiology • Genome Biology • Genomics • Genome Research
- Nucleic Acids Research • Physiological Genomics • Pharmacogenetics and Genomics • Proteomics
- **Informatics (Bio- and Clinical), Computational Biology and Computer Science Journals:** • Applied Ontology
- BMC Bioinformatics • BMC Medical Informatics and Decision Making • Bioinformatics
- Briefings in Bioinformatics • Canadian Journal of Medical Informatics • Cancer Informatics
- Computers in Biology and Medicine • Cancer Informatics • International Journal of Medical Informatics
- Journal of Biomedical Informatics • Journal of the American Medical Informatics Association
- Journal of Decision Support Systems • PLoS Computational Biology
- PROTEINS: Structure, Function and Bioinformatics

Service to Organizations and Societies

Workshops Organizer

RCSPC Royal College of Surgeons and Physicians of Canada. Chair and Organizer: 8 hr Workshop on Comput & Internet Literacy for Physicians. Annual meetings: • Halifax, 9/26/1996 • Vancouver 9/25/1996.

Scientific Program Committees Memberships

- AMIA American Medical Informatics Association
- Chair, Foundations Track , 2007 AMIA Fall Symposium
 - SPC Member, Foundations of Informatics Track, Chicago, 1/10-14/07
 - SPC Member, 2008 AMIA STB
 - Chair, SPC, 2009 AMIA STB
 - SPC Member, 2010 AMIA Annual Symposium 11/13-17/10, Wash DC
- BIOKDD 8th Internat. Wrkshp Data Mining in Bioinform, 8/24/08, Las Vegas <http://bio.informatics.iupui.edu/biokdd08/>
- BOA Biomedical Ontology in Action, 12/8/06, Baltimore.
- ECCB European Conf. on Computational Biology
- Biomed Ontologies & Text Processing, 4th ECCB, Madrid 9/28/05 <http://www.nlp.shef.ac.uk/eccb05-ont+text/>
- GIW Language in Biology and Medicine co-located with the 18th Genome Informatics Workshop, Singapore 12/5-6/07 <http://lbn2007.biopathway.org/>
- HEALT HEALTHINF 2012
- HINF
- ICBO International Conference on Biomedical Ontologies <http://icbo.buffalo.edu/>
(formerly SOFG: Standards & Ontologies for Functional Genomics)
- 2009 Member of the Founding Organizing Committee and Scientific Committee
 - 2010 Scientific Committee
- ICMLA 2009 Int. Conf. on Machine Learning and Applications: Machine Learning, Applications in Bioinformatics & Computational Biol, 12/13-15/09, Miami <http://www.icmla-conference.org/icmla09/>
- ISMB International Conference on Intelligent Systems for Molecular Biology
- 15th ISMB & 6th ECCB, Vienna: 7/21-25/07; <http://bioinformatics.oxfordjournals.org/cgi/reprint/23/13/i5>
 - 16th ISMB 2008 in Toronto, <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2718676/>
- KRMED "Representing and sharing knowledge using SNOMED" International Health Terminology Standards Development Organisation (IHTSDO) and the KRMED Wrk Group on Formal (Bio-)Medical Knowledge Representation of AMIA. Phoenix, 5/31-6/2, 2008
- NETTAB Network Tools and Applications in Biology
- 2011 Clinical Bioinformatics <http://www.nettab.org/2011/organization.html>
- PSB Pacific Symposium on Biocomputing (Track Co-Chair and Review Committee)
- 2005 Semantic webs for life sciences
 - 2008 & 2009 "Molecular Bioinformatics for Diseases" Track
- <http://psb.stanford.edu/psb08/cfp.html#bioinfo>, <http://psb.stanford.edu/psb09/cfp-bioinfo.htm>
- RECOMB RECOMB DREAM-SB 3rd Conference on Systems Biology, Regulatory Genomics, and Reverse Engineering Challenges, New York, 11/16-20/10, <http://recombsat.c2b2.columbia.edu/>
- TBC 1st Translational Bioinformatics Conference , Seoul Oct 2011

Conference Session Chair

- 2005 AMIA Annual Symp, Session 28-Natural Language Processing, 10/24. <http://www2.amia.org/meetings/f05/>
- 2006 PSB, Session "Towards a Semantic Web for Biology" <http://psb.stanford.edu/psb06/>
- 2008 AMIA Summit on Translational Bioinformatics, <http://www2.amia.org/meetings/stb08/spc.asp>

Workshops Presentations

- 95-7 Five SNOMED Tutorials: AMIA ann.meeting1995-7 (3), COACH 1996-7 (2), RA Cote, YA Lussier
- 2002 NSIT National Institute of Standards and Technology Workshop Speaker. "Clinical Genomic Systems and Related Clinical Standards". Workshop on Information Technologies for Healthcare: Barriers to Implementation. Washington, 8/1/2002
- 2003 SFN Soc for Neuroscience Workshop Speaker. Automating Terminological Networks to Link Heterogeneous Biomedical Databases. Human Brain Project: Creating a Shared Neuroscience Ontology. 11/10/2003
- 2003 *NSF & MITRE Workshop Speaker*. From Single Gene Diseases to genomic Diseases, an Informatics Perspective. Disease Modeling and Prediction workshop, 3/17/2003, McLean VA.
- 2004 CAP-SNOMED - College of American Pathology- 6th *Ann SNOMED International Users Group* 9/22-24/04
- 2004 SOFG - Standards and Ontologies for Functional Genomics Speaker. Computational Ontologies for High Throughput Visualization and Analysis of the Phenome. 2. 9/23-26, Univ of Penn School of Medicine.
- 2004 fMRI Data Center Summer Workshops in fMRI Informatics, *Dartmouth College*, 7/12-14/04. "Phenotypic Networks and the art of Neuroinformatics"
- 2004 IEEE/NIH/NLM Multimodal Bio-Medical Systems Workshop 2004. Bethesda, 9/22/04.
- 2005 *Knowledge-Based Bioinformatics Workshop*, Ontologies, the semantic web and intelligent systems for genomics. Concordia University. 7/21-23/05, Montreal.
- 2005 Buffalo-Columbia Universities Workshop on Ontologies and Cancer Bioinformatics. 9/14/05
- 2006 National Ctr for Ontology Research (NCOR)& AMIA KR-MED Formal Bio-Medical Know Rep 4/12/06
- 2007 PSB Pac Symp Biocomput, Kann, Ofran, Punta, Radijovac , Lussier. Protein Interactions in Diseases. 1/4/07
- 2007 DOD TATRC/ IEBI Advanced Technology Research Ctr Workshop on Information Extraction for Biomed Inform (IEBI), Department of Defence Telemedicine and TATRC. 9/23/07 www.cis.upenn.edu/~ungar/TATRC
- 2007 AACR Speaker, Educational Workshop Sessions on Systems Biology of the Conference on The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved and is co-sponsored by the NCI Center to Reduce Cancer Health Disparities. 9/27-30/07
- 2008 NIH/NCI & DH&HS "The Role of Biomedical Informatics in Overcoming Current Barriers in Cancer Research, The Blackwell Inn at The Ohio State University in Columbus, Ohio, April 2-3, 2008
- 2008 NIH- GEI "GWAS and Other -Omics: The Need for Data Integration", Trans-NIH Workshop – Gene Environment and Health Initiative (GEI), "Genome-wide Association: Analyze This! The Genes, Environment, and Health Initiative". 8/4–5/08, <http://www.nhlbi.nih.gov/meetings/gei/>
- 2009 Ad Hoc. Consortium for Neuro-psychiatric Phenomics "June 9, 2009" UCLA
- 2010 Ad Hoc. 2010 Consortium for Neuropsychiatric Phenomics retreat, June 2010, UCLA

Conference Proceedings Review

- AMIA Fall Symposium, • Annual International Conference on Intelligent Systems for Molecular Biology (ISMB)
- Knowledge Representation in Medicine (KR-MED), • European Conference on Computational Biology (ECCB)
 - Medinfo Proceedings • Pacific Symposium on Biocomputing (PSB)

Conference Committee

- 1991-2003 Member of the PSG-06 Committee of the Computerized Patient Record Work Group of AMIA
- 1994-2003 Member of the Family Medicine Informatics Committee of AMIA
- 1999-2003 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, AMIA

PhD Thesis Defence Committee

- 2007 Ying Tao, Columbia University
- 2011 Lee Sam, University of Michigan

Honors Thesis Defence Committee

- Columbia University (2001-6): A dozen candidates to the MSc and MA programs.
- University of Chicago (2011): Ari Allyn-Feuer, Kelly Regan (5/5/11), Peter LoPresti.

Teaching Experience and Responsibilities

Clinical teaching

- 1991-6 Clinical Instructor in Family Medicine, Ctr Hospital. Hôtel-Dieu de Sherbrooke, *University of Sherbrooke*,
- 1994-8 Clinical Instructor, Department of Family Medicine, *University of Sherbrooke*, Canada.
- 2002-5 Clinical Instructor, Department of Medicine, *Columbia University*

Informatics Courses

- Columbia University (Dept. Biomedical Informatics)

- 1999 Invited Lecturer. History of standard coding systems, G4020 Representation of Medical Data, 1/29/99
- 1999 Invited Lecturer. "Software Project Management", G4098 Topics In Medical Informatics, 11/99
- 1999 Invited Lecturer. "Basic Web Design Techniques", G4030 User Interfaces in Medicine, 8/4/99
- 1999 Invited Lecturer. "Advanced Web Design Techniques", G4030 User Interfaces in Medicine, 8/11
- 2001 Invited Lecturer. "Pen-based Computing", G4030 User Interfaces in Medicine, April 27
- 2001-4 Course Director, G4099. Research Seminars, Department of Biomedical Informatics (50 students).
- 2003-5 Course Director, G4055 Decision Support in Biomedicine, (24 students).
- 2003-4 Module Instructor: Intro to Biomed. Informatics, BMEN E1001x Engineering In Medicine, Dept. of Biomed. Engineer., Fu Foundat. School of Engineer. & Appl Sc, *Columbia University*, 10/27/03, 11/ 8/04.
- 2004 Module Instructor: G4099. "Computational approaches to high throughput analyses of non-molecular phenotypes" Research Seminars, (55 students), 2/17/04
- 2004-5 Course co-Director: Methods in Biomedical Informatics (G4002), (25 students). 4 Modules: Theories on Biological Data, Reasoning and Logic, Biological Ontologies, Knowledge Engineering.

- The University of Chicago

- 2007 Module Instructor: "Genomic approaches to accelerate the discovery and translation of biomedical knowledge" 10/4/07, BIOS 25406 "Translational Biomed Research, from bench to bedside".
- 2008 UCCRC Research Seminars in Cancer Informatics, Lecturer: Dr. Lynn H Vogel (CIO of MD Anderson) [2008/9/26]. [http://uccrc.uchicago.edu/docs/Aug%20Sept%208-12%20\(3\).pdf](http://uccrc.uchicago.edu/docs/Aug%20Sept%208-12%20(3).pdf)
- 2009 Module Instructor: "Translational Molecular Bioinformatics" 5/14/09, BIOS 25406 "Translational Biomedical Research, from bench to patient bedside".
- 2009 Module Instructor: "genomics in Cancer" 12/2/09, "12/7/09" Bioinformatics Analyses in Cancer" CABI 30800 "Cancer Biology 1: Human Cancer Presentation and Modeling".
- 2010 Seminar. Computational Phenomics and Thorough Biological Characterization Uncovers a Novel Tumor Suppressor microRNA and its Regulatory Network. The IGSB Fellows Series. 5/20/10.
- 2010 Course Director. Personal Genomics and Translational Bioinformatics. (BIOS 27100, CCTS 42100)
- 2011 Module Instructor: "Bioinformatics in Cancer" 24/5/11, Cancer Biology 3: Signal Transduction and Model Organisms (CABI 31200; NPHP 31200; CPHY 31200). .

-Other

- 1986 Module Instructor. Tétreault L, Lussier YA, Biostatistics Course - Masters in Experimental Medicine, School of Medicine, University of Sherbrooke
- 1991 Invited Course Director (3 weeks, 6 days/wk) to Faculty members. "Designing & programming databases". School of Medicine, University of Bangui, Central African Republic.

Faculty Advisory Committee and/or Mentorship

K-award Mentor for

--Funded K Awards--

- Federico Innocenti, MD, PhD, 2008-10, Assistant Professor of Medicine, Univ Chicago
- Roberto Machado, MD, 2009-10, Assist. Prof. of Medicine, Univ of Chicago -now Univ Ill Chicago

--Application for K Awards by Faculty members --

- Peter O'Donnell, MD, 2010-present, Instructor of Medicine,
- Dana Elderson, MD, 2009-present, Assistant Professor of Medicine, (Advisory Committee on K award appl.)
- Sam Volchenboun, MD, 2007-present, Assist Prof. Pediatric Hemato/Oncology, (mentor in K08 award appl.)
- Michael Grassi, MD, 2006-2010, Assistant Professor of Ophthalmology, (mentor on submitted K award)
- Liliana Moreno, PhD, 2008-10, Res. Assoc (Assist. Prof.), Dept. of Medicine, (mentor, submitted K- award)
- Andi Minn, MD, PhD, 2007, Instructor of Radiation & Cellular Oncology, UC, (mentor, K award appl.)

--Application for K Awards by Fellows --

- Huiping Liu, PhD, Post-Doct. (Advisor: G Greene), 2010-present (microRNA expression analyses).
- Joel Pekow, MD, Fellow, Section of Gastroenterology, 2009-present, Univ of Chicago (K8 award).
- Ankit Desai, MD, 2006-10, Resident in Cardiology, Univ of Chicago (prelim. studies, K-award)
-Now: Instructor, Dept. of Medicine, Univ Illinois in Chicago.

Faculty Advisory Committee or Faculty Mentorship for

- Haiquan Li PhD, Res. Assoc (Assist. Prof.), Dept. of Medicine, 2010-present
- Xinan Yang PhD, Res. Assoc (Assist. Prof.), Dept. of Medicine, 2010-present (mentor, planned K- award)
- Younghee Lee, PhD, Res. Assoc (Assist. Prof.), Dept. of Medicine, 2010-present
- Michael Maitland, MD, Assistant Professor Hemato/Oncology, 2007-present (redaction of grants)
- Eneida Mendonça, MD, PhD, Associate Professor, Dept. of Medicine, 2007-10
- Sameer Badlani, MD/MBBS, Fellow Med Informatics, Instructor, Medicine, Sect. of Hospitalist Med., 2007-8
- Edwin Posadas, MD, Assistant Professor of Medicine, 2007 (mentoring on dataset building)
- Savitri E. Fedson, MD, Assistant Professor of Medicine, UC, 2006-8 (microarray analyses)

Pre-Doctoral Research Advisor for

- Kelly Regan, 2011-present - University of Chicago Honors Graduate (one year research staff).
- Ying Tao, M.D., PhD (PhD completed in 2006 –Lussier main advisor). –Analyses and visualization of gene-phenotype relationship networks 2001-6, Columbia University. Dissertation: <http://gradworks.umi.com/32/49/3249135.html>
-Now: *IBM Researcher* https://researcher.ibm.com/researcher/view_pubs.php?person=cn-taoytao&t=1
- Matthew Crowson, 2008, Hamilton College student (summer research staff)- Now: MD candidate Dartmouth Medical School.
- Sascha Goonewardena, MD, 2007-9, research rotation, Resident in Medicine
- James Chen, BSc, MD candidate - Rotations (subintern) –Information theory & Phenotypic Ontologies, 2004
-Now: *clinical & research fellow in hemato-oncology @ University of Chicago*
- Spiro P. Pantazatos, M.Sc., Ph.D. Candidate (rotation) – Cross-Scale Mapping of Gene Expression to Neuroimaging Datasets via Semantic Decomposition, Columbia University 2004-6 .
-Now: *preparation of PhD dissertation @ Columbia University (Advisor: Joy Hirsch)*
- 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 C and Case Base Reasoning of Evidence Based Medicine. 2004-6.
-Now: *preparation of PhD dissertation @ University of Michigan (Advisor: Arul M. Chinnaiyan)*
- Michael Bales, Ph.D. Candidate, research rotation, 2005-9, Columbia Univ (PhD Committee), Now: Fellow Columbia Univ
- Tzu-Lin Hsiao, M.D., PhD (rotation) – Ontology-Anchored Phenomics & Anatomic, 2005, Columbia Univ
- Chintan Patel, M.Sc., PhD (rotation) –Graph theory approaches to phenotypic integration, 2004, Columbia Univ

- Paola Karina Tulipano, M.A., Ph.D. Candidate, research rotation, 2003-4, Columbia Univ- Now Scientist Philips labs.
- Xiaoyan Wang, M.Sc. – Pathway Analysis of Phenotypic Networks, 2003-4, Columbia University
-Now: *Assistant Professor @ University of Maryland*
- Neil Sarkar, Ph.D. (rotations, 2002-4) Columbia Univ.
-Now: *Assistant Prof. and Director Biomedical Informatics, University of Vermont.*
- Jeeyai Choi, research rotation, Ph.D., 2002-3, Columbia University
- Matthew A. Neimark, M.D. Ph.D. candidate (rotation) –Individualized Medicine, 2002, Columbia Univ
- Chani Weinreb MD, (rotation)–Biomed. Database Interoperability, 2001, Columbia Univ

Post-Doctoral Fellowship Research Advisor for

--Primary Advisor--

- James Chen MD, (i) Fellow, Hematology/oncology, The University of Chicago (2008-present), and (ii) Resident in Internal Medicine Georgetown University , Rotation, Univ. of Chicago 11-12/2006.
-Now: *clinical & research hemato-oncology fellow @ Univ. of Chicago*
- Xinan Yang PhD, Post-Doctoral Fellow, computational analyses of microRNA expression and personalized expression profiling, The University of Chicago (2008-2010). - Now: *RA Assistant Professor @ Univ. of Chicago*
- David Mann, MD, 2008-10, Resident in Dermatology, University of Chicago (research advisory role).
- Younghee Lee, PhD, Post-Doct. 2007-10 Fellow, onco-microRNAs & genetics studies, Univ of Chicago
- Now: *RA Assistant Professor @ Univ. of Chicago*
- Michael Cantor, M.D. M.Sc. (Post Doctoral fellowship) – Genomic Medicine, 2001-4, Columbia University
- Now: *Dir. Of Biomed Inform @ Pfizer* (Former Chief Medical Officer @ New York Univ, Bellevue Hospital)
- Te-Hui Kuo, M.D., M.A. (Post-Doct. Fellow)–Mining Drug-Disease Contraindications, 2001-3, Columbia Univ
- Hedi Hegyi, Ph.D., (Post-Doctoral Fellowship), Columbia Univ.– design of panmicrobial microarray, 2004-5
- Now: *Fellow, Institute of Enzymology, Hungary*

--Secondary Advisor--

- Eun-Hee Shim, PhD, post-doct. (Advisor: J Cunningham laboratory), 2010-present (genomic studies analyses).
- Wei Zhang MD, Fellow, Hematology/oncology, The University of Chicago (2009-10).
- Tanguy Seiwert, MD (Microarray Analysis), Pulmonary Fellow, The University of Chicago, 2006-7.
- Ankit Desai, cardiology fellow, MD (Microarray Analysis), Pulmonary Fellow, Univ of Chicago, 2006-7.
- Chern-Sing Goh, Ph.D. (Post-Doctoral Fellowship) – Prokaryotic Phenome -2004-2005, Currently post-Doctoral Fellow at Gerstein Laboratory – Yale University.
- Vincent Delbago, M.D., M.A. (rotation) – Business Informatics, 2004, Columbia University
- Aylit Schultz, MD, (subintern) – Clinical Phenotypes of Disease Genes, 2002-3, Columbia University

Master Degree and Undergraduate Research Advisor for

- Edwin Walsh, B. Sc (engineering) 4th yr Pritzker School of Medicine Student, 2008.
- James Deitzer, Bioengineer, M.A., 2005, Columbia Univ, Genomic Ontologies in SNOMED.
- Tara Borlawsky, M.Sc. – Distributed Knowledge Management for Clinical Alerts, 2004, Columbia University.
-Now: *Dir. Of Research Informatics Services, Ohio State University Ctr.*
- Daniel Rappaport, M.A. candidate, NLP & ontologies of genetic expression 2004-5, Columbia University.
- Huinar Quek, M.A. – Biomed DB Interoperability, 2002-2003, Columbia Univ
-Now: *Lecturer, Biomed Engineer., Nanyang Technol. Univ., Med Inform Dir, Ministry of Health (Singapore)*

Academic advisor for

- Pallav Sharda, M.A., 2002-3, Columbia Univ. – Now: *Business Intelligence Lead, Kaiser Permanente.*
- Vincent M. Delbago, M.D., M.Sc., 2002-4, Columbia University
- Jianbo Lei, M.D., M.Sc., 2002-2004, Columbia University.
- Kwok-Tim Chan, M.D., M.Sc., 2003-4, Columbia Univ-Now: *Senior Med Officer, Dept. of Health, Hong Kong.*
- Sameer Malhotra, M.B.B.S., M.A., 2003-4, Columbia University.

Grants, Scholarship, Fellowship Support and Contracts

Past Scholarships

- 1986 Research Scholarship Graduate student, Fond de Recherche en Santé du Québec
- 1987 Research Scholarship Graduate Student, Kidney Foundation of Canada
- 1987 Research Scholarship Graduate Student, Fond de Recherche en Santé du Québec
- 1998- Post-Doctoral Independent Research Fellowship – Medical Research Council of Canada
- 2001 Research Fellowship (MRC) <http://www.cihr-irsc.gc.ca/f/2798.html>

Current Grants

- ID/ Title 5U54CA121852 Nat.Ctr the Multiscale Analysis of Genomic & Cellular Networks (MAGNet)
Role Lead Investigator in Natural Language Processing and Ontology, Effort - 10%
Period /Costs 2005-2010 \$18,500,000 / (Lussier ~400,000)
We thus propose elucidating biological function and framing quantitatively related health or disease processes using comprehensive organization and analysis of molecular cellular interactions knowledge-based methods.
- ID/ Title 5UL1RR024999 Clinical and Translational Science Awards (CTSA): Re-Engineering
Translational Research at The University of Chicago
Role Co-Director, Biomedical Informatics Core, Effort - 15% (PI: J Solway)
Period /Costs 2007-2011 / ~\$20,000,000 (~1,500,000 for informatics)
- ID/ Title 5P50CA125183 SPORE on Breast Cancer
Role/Period/\$ Co-Investigator on Pilot Project (PI: OI “Funmi” Olopade) 2006-2011 / ~\$2,228,818/year
- ID/ Title 1R01LM009725 NLM Enhancing organism based disease knowledge via taxonomic intelligence
Role/Period/\$ Co-investigator, Effort 5% (PI: IN Sarkar) 9/2008-8/2012 / \$1,054,682
- ID/ Title 5P30CA014599-35, NCI University of Chicago Comprehensive Cancer Center Support Grant
Role Co-investigator, Associate Director for Informatics, Effort 10% (PI: M Le Beau)
Period /Costs 9/2008-8/2013 / \$4,368,460/year
- ID/ Title 2 P01 CA040046-21, NCI Etiology of Alkylator-Induced Myeloid Leukemia
Role/Period/\$ Investigator in Project 1, Bioinform, Effort 5% (PI: M Le Beau) 9/2008-8/2013 / \$2,100,525
The goal of this program project is to elucidate the molecular mechanisms and genetic susceptibilities leading to Therapy-related myelodysplastic syndrome (t-MDS) and acute myeloid leukemia (t-AML). Dr. Lussier will undertake bioinformatics approaches to genome-wide association studies of germline DNA from patients with t-AML to identify copy number alterations and genetic variants that may be genetic risk factors or biomarkers.
- ID/ Title Cancer Research Foundation T-AML: Harnessing Complex Science to Fight Cancer
Role Lead bioinformatics investigator , Effort - 5% (PIP: M Le Beau)
Period /Costs 2008-2011 / \$4,500,000 (\$375,000 for informatics)
Creating a genomics atlas for personal therapeutic choices
- ID/ Title 3UL1RR024999-03S3 and NCI/CTEP, Multicenter randomized phase II study of Temeirolimus
versus Cetuximab +Temeirolimus in patients with recurrent/metastatic head and neck cancer
Role Lead Investigator, Effort - 5% (PI: J Solway) 2009/9-2011/8 / \$282,714
Clinical hypothesis: the combination of mTOR inhibition (using temsirolimus) and EGFR inhibition (using cetuximab) prolongs progression free survival (PFS) in patients, who have failed EGFR based therapy, whereas mTOR inhibition alone does not provide a similar benefit. Underlying scientific hypothesis: the combination of mTOR inhibition with temsirolimus and EGFR inhibition with cetuximab is synergistic in head and neck squamous cell carcinomas and overcomes primary and/or secondary resistance to cetuximab. Furthermore activity is driven by tumors with a myofibroblast (+) phenotype.
- ID/ Title 1RC2HL101740-01 Molecular Markers of Idiopathic Pulmonary Fibrosis Progression
Role Subcontract PI (Jointly with I Noth), Effort - 10% (PI: Martinez) 9/30/09-9/29/11 / \$3,411,051
The goals of this project are to assemble a network of clinical centers to procure biologic samples from patients with recently diagnosed IPF and follow these patients for at least 45 weeks; 2) correlate and integrate biologically plausible biomarkers of disease activity obtained from multiple compartments (SLB, TBB, blood)

from the same patient with longitudinal measures of disease progression. We propose to conduct microRNA-mRNA analyses and eQTL analyses on human samples to characterize the molecular regulators of IPF.

- ID/ Title 3UL1RR024999-03S5 Service Oriented Discovery Architecture: Semantic Expansion Project
Role/Period/\$ Adm. Suppl. Lead investigator- Effort 4% (PI: J Solway) 2009/9-2011/8 / \$1,924,346
The key overall objective is to enable data integration from enterprise systems for translational researchers using SNOMED and UMLS – anchored clinical narratives (via natural language processing, as well as GRID-accessible ontology-server and NLP-server services). IRB Protocol 10-325-B .

- ID/ Title Deranged Coagulation and Fibrinolytic Cascades in Idiopathic Pulmonary Fibrosis
Role/Period/\$ Co-investigator, Effort - 2% 03/01/10-02/28/14 / \$19,015
The major goals of this proposal are to (1) determine if altered levels of plasma coagulation/fibrinolytic proteins at baseline predicts IPF disease status or severity; (2) identify the coagulation/fibrinolytic parameters that predict a positive anticoagulant treatment response, and uncover their molecular mechanism.

- ID/ Title PAAR-U19GM061393-11 NCI/NIGMS Pharmacogenetics of Anticancer Agents research group
Role/Period/\$ Co-investigator, Effort - 5% (PIs: M Ratain, NJ Cox, E Dolan) 2010-2014 / ~\$12,500,000

- ID/ Title 1R01CA142996-01 Genome-Wide Association Study of Breast Cancer in the African Diaspora?
Role/Period/\$ Co-investigator, Effort - 5% (PIs: NJ Cox, F Olopade) 2010-2014 / \$1,250,000/yr

- ID/ Title NIH/ NHLBI Phase II study of inhaled Carbon Monoxide for the treatment of IPF
Role Principal Investigator of the Subcontract, Effort - 10% (PIs: A Choi and JGN Garcia)
Period /Costs 2010-2013 / \$1,250,000/yr

- ID/ Title 1S10RR029030-01 BEAGLE: A Supercomputer for Biomedical Simulation and Data Analysis
Role/Period/\$ Lead Investigator (among 12), Effort 5% (PI: I Foster) 2010 / \$6,967,431
150 Teraflop of computing power shared by 12investigators (17,856 cores; 1,488 processors; 23,3 terabyte of memory, 464 terabytes of disks drive). Lussier group: mining and modeling complex diseases cost efficacy using ontologies and natural language processing. Clinical data provided by The University of Chicago Med Center.

Pending Grants

Title Radiation response within the tumor microenvironment (PI: S. Kron) RFA-CA-11-005
Role Co-investigator, effort : 3%
Total Project Period 2011-16

Title Community Profile CTSA Supplement (PI: D. Hynes) RFA-CA-11-005
Role Co-investigator, effort : 3%
Total Project Period 2011-12

Completed Grants

-Translational clinical- and bio- informatics

- *VigiLENS* Patient Health Monitoring (NASA VCU-528753/PO P417322, HRSA / Office of Advanced Telemedicine OAT, 2001-2002:\$1,266,000, 2002-2003:\$850,000, role: co-PI, PI: T Shortliffe),

An ontology-anchored and server accessible clinical event monitor for dramatically reduce the cost (TCO).

- Semantic Approaches to Phenotypic Databases Analyses (K22 LM008308 NLM, 5/2004-4/2008, \$433,445)
Role: PI, build innovative informatics tools capable of automatically querying and organizing phenotypic data.

- Clinical-Genomics Knowledge-Bases for High Throughput Drug Discovery (NYSTAR Center for Advanced Technology Grant # C020054, PI, 2/2003-7/2003, \$44,471)

- Capturing and Linking genomic and clinical information (R01LM007659, 8/2003-9/2007, \$1,400,000, role: co-PI). Use natural language processing (NLP) to facilitate cancer research by automatically extracting and organizing clinical and genetic information from the Electronic Medical Record (EMR) and from journal articles.

- Intelligent Cooperative Communications for Cross-Organization and Real-Time Responsiveness (NYSTAR 2003-4 \$43,140), PI, award winning collaboration with Rose Williams (IBM Watson Research Lab) to deploy secure and HIPAA compliant event-monitored communications over Smart Phones (*VigiLENS*).

http://www.cat.columbia.edu/grant_recipients03.htm

- NIAID Northeast Research Center of Excellence for Biodefense and Emerging Infections Diseases (2003-2005 5U54 AI057158) Lead Investigator, Bioinform Core Director, \$59,872,920 (\$5,117,861 to the Bioinform Core)

-Basic Science of knowledge representation (e.g. ontologies) and natural language processing

- Health Evidence and Application Linkages Network -HEALNet-RELAIS (Medical Research Council of Canada 1995-1998 \$2,400,000; Role: Lead Inv, PIs: B Haynes&J Moehr), SNOMED in EMRs & directed graphs.
- Unlocking data from medical records with text processing (R01LM06274 NLM, 1997-2000, \$878193, co-inv.)
- Knowl Base of Clinical Traits for Human Dis Genes.NYSTAR Ctr Adv Techn #21240026, 2002-3, \$19,000, PI
- ICTVdb: The Universal Virus Information System (5G08LM007198-03, subcontract PI, 2004, \$80,000).
- Ontology-based Retrieval of Individualized Evidence-Base Excerpts (NYSTAR/CAT UPN: 04240001 5-67725 2005-6 \$89,811 and John Wiley and Sons Publishers \$200,000), PI.
- A Biomedical Natural Language Processing Resource (1R01LM008635-01 NLM 2005-2009, \$2,179,256) Co-Investigator (PI: C Friedman), Adapting natural processing system for use with SNOMED encoding.

Publications and Communications

Original Journal Publications

1. Lussier A*; Arseneault A; Varady A; De Médecis R; **Lussier Y**; Lebel E: "The use of a ⁵¹Cr Technique to Detect Gastrointestinal Microbleeding Associated with Nonsteroidal Anti-inflammatory Drugs". *Semin Arthritis Rheum*. 1988;17(3);40-45. [http://dx.doi.org/doi:10.1016/0049-0172\(88\)90044-3](http://dx.doi.org/doi:10.1016/0049-0172(88)90044-3)
 2. Lussier A*; Davis A; **Lussier Y**: "Comparative Gastrointestinal Blood Loss Associated with Placebo, Aspirin and Nabumetone as Assessed by Radiochromium (⁵¹Cr)". *J Clin Pharmacol* 1989;29(3);225-228. <http://jcp.sagepub.com/cgi/reprint/29/3/225> <http://www.jclinpharm.org/cgi/content/abstract/29/3/225>
 3. **Lussier YA***: "Le Dossier Patient Informatisé sur ardoise électronique: le défi de Développement Purkinje". *Canadian Medic Inform*, 1994;1(1), 46-47.
 4. **Lussier YA***: "Scientific Medicine in Need of a Standard Coded Nomenclat.". *Canadian Medic Inform* 1994;1(4)
 5. **Lussier YA***; Côté RA: "Are We Closer to Standard Medical Coding?". *Canadian Medic Inform* 1995;2(5).
 6. **Lussier YA***; Rothwell DJ; Côté RA: "The SNOMED Model: A Knowledge Source for the Controlled Terminology of the Computerized Patient Record". *Methods Inf Med* 1998;37;160-164. PMID: 9656658
 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. <http://dx.doi.org/doi:10.1006/jbin.2001.1023>
 8. Cantor MN, Sarkar IN, Gelman R, Hartel F, Bodenreider O, **Lussier YA***. An evaluation of hybrid methods for matching biomedical terminologies: mapping the gene ontology to the UMLS. *Stud Health Technol Inform*. 2003;95:62-7. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1796946/>
 9. Friedman C*, Shagina L, **Lussier YA**, Hripcsak G. Automated Encoding of Clinical Documents Based on Natural Language Processing. *J Am Med Inform Assoc* 2004;11(5):392-402. PMC516246 <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC516246/>
 10. Wang A, Quek HN, Cantor MN, Kra P, Schultz A, **Lussier YA***. "Automating Terminological Networks to Link Heterogeneous Databases". *Stud Health Technol Inform*. 2004;11(Pt 1):555-9. PMC2917348 <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2917348/>
 11. Tao Y, Friedman C, **Lussier YA***. The Use of Information Visualization Techniques in Bioinformatics during the Postgenomic Era. *Biosilico* 2004; Vol. 2, No. 6. PMC2957900 [http://dx.doi.org/doi:10.1016/S1741-8364\(04\)02423-0](http://dx.doi.org/doi:10.1016/S1741-8364(04)02423-0)
 12. Williams R*, Jalan S, Stern E, **Lussier YA***. Cascading Policies Provide Fault Tolerance for Pervasive Clinical Communications. Proceedings of Third IEEE International Conference on Pervasive Computing and Communications Workshops, (PerComW), *IEEE Computer Society* 2005:209 – 212. <http://dx.doi.org/10.1109/PERCOMW.2005.22>
 13. Tao Y, Friedman C*, **Lussier YA***. "Visualizing information across multidimensional post-genomic structured and textual databases" *Bioinformatics*. 2005 15;21(8):1659-67. <http://dx.doi.org/doi:10.1093/bioinformatics/bti210>
- Journal Publications; 2006-present (Since promotion to Associate Professor) -----
14. **Lussier YA***, Williams R, Jalan S, Borlowsky T, Li J, Stern E*. Partitioning Knowledge Bases Between Advanced Notification and Clinical Decision Support Systems. *Decision Support Systems*. 43(2007; Epub 17 April 2006) 1274-1286. <http://dx.doi.org/10.1016/j.dss.2006.02.006>
 15. Zhou L, Tao Y, Cimino JJ, Chen ES, **Lussier YA**, Hripcsak G, Friedman C*. Terminology Model Discovery

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- Using Natural Language Processing and Visualization Techniques. *J Biomed Inform.* Epub 2005 Dec 14, 2006 Dec;39(6):626-36. <http://dx.doi.org/doi:10.1016/j.jbi.2005.10.006>
- 16 Choi J, Bakken S*, **Lussier YA***, Mendonca EA*. Improving the Human Readability of Arden Syntax Medical Logic Modules Using a Concept-oriented Terminology and Object-oriented Programming Expressions. *Comput Inform Nurs.* 2006 Jul-Aug; 24(4):220-5. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2883181/>
 - 17 Goh CS, Gianoulis TA, Liu Y, Li J, Paccanaro A, **Lussier YA***, Gerstein M*. Integration of Curated Databases to Identify Genotype-Phenotype Associations. *BMC Genomics* 2006, 7:257. <http://dx.doi.org/doi:10.1186/1471-2164-7-257>
 - 18 Friedman C*, Borlawsky T, Xing HR, **Lussier YA***. Bio-Ontology and Text: Bridging the Modeling Gap. *Bioinformatics*, 2006 Oct 1;22(19):2421-9. <http://dx.doi.org/doi:10.1093/bioinformatics/btl405>
 - 19 Liu Y, Li J, Sam L, Goh CS, Gerstein M*, **Lussier YA***. An integrative genomic approach to uncover molecular mechanisms of prokaryotic traits. *PLoS Computational Biology*, 2006 2(11): 1419-1435. <http://dx.doi.org/doi:10.1371/journal.pcbi.0020159>
 - Editor's Pick of the month
 - Selected as a Highlights of 2007 (63 manuscripts selected) for presentation in the International Symposium on Molecular Biology (ISMB 2007). http://www.iscb.org/cms_addon/conferences/ismbecb2007/program/highlights.html
 - 20 Tulipano KP, Tao Y, Zanzonico P, Kolbert K, Millar WS, Xu H, Yu H, Chen L, **Lussier YA***, Friedman C*. Natural Language Processing and Visualization in the Molecular Imaging Domain. *Journal of Biomedical Informatics*, 40 2007; 270-281. <http://dx.doi.org/10.1016/j.jbi.2006.08.002>
 - 21 Palacios G, Quan PL, Jabado OJ, Conlan S, Hirschberg DL, Liu Y, Zhai J, Renwick N, Hui J, Hegyi H, Grolla A, Strong JE, Towner JS, Geisbert TW, Jahrling PB, Büchen-Osmond C, Ellerbrok H, Sanchez-Seco MP, **Lussier Y**, Formenty P, Nichol MS, Feldmann H, Briese T, Lipkin WI*. Panmicrobial oligonucleotide array for diagnosis of infectious diseases. *Emerg Infect Dis.* 2007 Jan;13(1):73-81. <http://www.cdc.gov/ncidod/EID/13/1/pdfs/73.pdf>
 - 22 **Lussier YA***, Liu Y. Computational Approaches to Phenotyping: High-Throughput Phenomics. *Proc Am Thorac Soc* Vol 4. pp 18-25, 2007. <http://dx.doi.org/DOI:10.1513/pats.200607-142JG>
 - 23 Tao Y, Li J, Friedman C*, **Lussier YA***. Information Theory Applied to the Sparse Gene Ontology Annotation Network to Predict Novel Gene Function. *Bioinformatics*, 2007, 23(13):i529-38. <http://dx.doi.org/doi:10.1093/bioinformatics/btm195>
 - 24 Nonas SA, Moreno Vinasco L, Ma S, Jacobson JR, Desai AA, Dudek J, Flores C, Hassoun P, Sam L, Ye SQ, Moitra J, Barnard J, Grigoryev DM, **Lussier YA**, Garcia JG*. Use of Consomic Rats for Genomic Insights into Ventilator-Associated Lung Injury. *Am J Phys, Lung Cellular and Mol Physiol*, 293: L292-L302, 2007 <http://dx.doi.org/doi:10.1152/ajplung.00481.2006>
 - 25 Bales M, **Lussier YA***, Johnson SB*. Topological analysis of large-scale biomedical terminology structure. *J Am Med Inform Assoc.* 2007 Nov-Dec; 14(6): 788–797. <http://dx.doi.org/DOI:10.1197/jamia.M2080>
 - 26 Jabado OJ, Liu Y, Conlan S, Quan PL, Hegyi H, **Lussier Y**, Briese T, Palacios G, Lipkin WI*. Comprehensive viral oligonucleotide probe design using conserved protein regions. *Nucleic Acids Res.* 2008;36(1):e3. <http://dx.doi.org/doi:10.1093/nar/gkm1106>
 - 27 Moreno-Vinasco L, Gomberg-Maitland M, Maitland M, Collins K, Desai AA, Singleton PA, Sammani S, Sam L, Liu Y, Hussein A, Lang RM, Ratain M, **Lussier YA**, Garcia JGN*. Genomic Assessment of a Multi- Kinase Inhibitor, Sorafenib, in a Rodent Model of Pulmonary Hypertension *Physiol Genomics.* 2008, 33: 278–291. <http://dx.doi.org/doi:10.1152/physiolgenomics.00169.2007>
 - 28 Hong SB, Huang Y, Moreno-Vinasco L, Sammani S, Moitra J, Barnard JW, Ma SF, Mirzapioiazova T, Evenoski C, Reeves RR, Dudek SM, Jacobson JJ, Chiang ET, Lang GD, Husain AN, Ye SQ, **Lussier YA**, Garcia JGN*. Essential Role of Pre-B Cell Colony Enhancing Factor in Ventilator-Induced Lung Injury. *American Journal of Respiratory and Critical Care Medicine*, 2008 Sep 15;178(6):605-17. <http://dx.doi.org/doi:10.1164/rccm.200712-1822OC>
 - 29 Wang T, Moreno-Vinasco L, Huang Y, Lang GD, Linares JD, Goonewardena SN, Grabavoy A, Samet JM, Geyh AS, Breyse PN, **Lussier YA**, Natarajan V, Garcia JGN*. Murine Lung Responses to Ambient Baltimore Particulate Matter: Genomic Analysis and Contribution to Airway Hyperresponsiveness. *Environmental Health Perspectives.* Volume 116, Number 11, November 2008. <http://dx.doi.org/doi:10.1289/ehp.11229>
 - 30 Liu Y, Sam L, Li J, **Lussier YA***. Robust Methods for Accurate Diagnosis Using Pan-Microbiological Oligonucleotide Microarrays. *BMC Bioinformatics* 2009 5;10,2:S11. <http://www.biomedcentral.com/1471-2105/10/S2/S11>
 - Outstanding Paper Award, American Med Inform Assoc <http://phenos.bsd.uchicago.edu/publications/Lab-Awards/Lussier-2008-award.pdf>

* Corresponding author(s)

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- 31 Sam L. Li J, Mendonca E, Blake J, Friedman C, **Lussier YA***. PhenoGO: A Resource for Mining Multiscale Biological and Clinical Data. *BMC Bioinformatics*. 2009 Feb 5;10, 2:S8. <http://www.biomedcentral.com/1471-2105/10/S2/S8>
- Outstanding Paper Award, American Med Inform Assoc http://phenos.bsd.uchicago.edu/publications/Lab-Awards/Lee-Sam-amia_award.pdf
- 32 Meyer NJ, Huang Y, Singleton PA, Sammani S, Moitra J, Evenoski CL, Husain AN, Mitra S, Moreno-Vinasco L, Jacobson JR, **Lussier YA**, Garcia JGN. GADD45a is a novel candidate gene in inflammatory lung injury via influences on Akt signaling. *FASEB J*. 2009 May;23(5):1325-37. <http://www.fasebj.org/cgi/rapidpdf/fj.08-119073v1.pdf>
- 33 Pantazatos SP, Li J, Pavlidis P, **Lussier YA***. Integration of Neuroimaging and Microarray Datasets through Mapping and Model-Theoretic Semantic Decomposition of Unstructured Phenotypes. *Cancer Informatics*, 2009;8 75–94. PMC2874327 http://la-press.com/article.php?article_id=1484
- Highly visible (2531 articles view). http://la-press.com/journal.php?journal_id=10&issue_id=183
- 34 Yang X, Huang Y, Chen J, Xie J, Sun X, **Lussier YA***. Mechanism-Anchored Profiling derived from Epigenetic Networks Predicts Outcome in Acute Lymphoblastic Leukemia. *BMC Bioinformatics* 2009, 10(Suppl 9):S6 PMC2745693 <http://www.biomedcentral.com/1471-2105/10/S9/S6>
- Outstanding Paper Award, American Med Inform <http://phenos.bsd.uchicago.edu/publications/Lab-Awards/XinanYang.pdf>
- 35 Lee Y, Yang X, Huang Y, Fan H, Zhang Q, Youngfei Wu, Li J, Hasina R, Cheng C, Lingen MW, Gerstein M, Weichselbaum RR, Xing HR*, **Lussier YA*** (2010) Network Modeling Identifies Molecular Functions Targeted by miR-204 to Suppress Head and Neck Tumor Metastasis. *PLoS Comput Biol* 6(4): e1000730. doi:10.1371/journal.pcbi.1000730 . PMC2848541 <http://dx.doi.org/doi:10.1371/journal.pcbi.1000730>
- One of the 24 best translational bioinformatics reports of 2009-10, by Russ Altman, in his review presented at the 2010 American Medical Informatics Association Summit on Translational Bioinformatics and on his blog <http://rbaltman.wordpress.com/> (page 36 of the PDF file, URL below): http://summit2010.amia.org/files/symposium2008/Altman_Closing.pdf
<http://go2.wordpress.com/?id=725X1342&site=rbaltman.wordpress.com&url=http%3A%2F%2Ffiles.me.com%2Frusaltman%2F71b0xt>
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- 233 Bokuski M, Bilder RM, Kohane I, **Lussier YA**, Manji H, Reynders J. *Integrating Bio-, Neuro-, and Healthcare-Informatics for Neuroscience Discovery* . Annual Meeting of the American College of Neuropharmacology (under review). Dec 6-10 2010, Miami Florida.
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- 246 Burton M, Saner D, Yang X, Li H, Solway J, **Lussier YA**. The dynamic edges of the evolving social network: new collaborations predicted with Information Theory. 2011 AMIA Summit on Clinical Research Informatics (CRI), San Francisco, March 9-11, 2011.
- 247 Li H, Leiled by Information Theory. 2011 AMIA Summit on Clinical Research Informatics (CRI), 3/9-11/2011. Ma SF, Huang Y, **Lussier YA**, Noth I, Grigoryev DN, Solovyeva M, Hassoun PM, Ammosova T, Desai AA, Machado RF, Gordeuk VR Garcia JGN. Gene Expression Profiling In Peripheral Blood Mononuclear Cells Correlates With Chuvash Polycythemia Progression To Pulmonary Hypertension. *Amer Thoracic Soc 2011* .
- 248 Burton M, Saner D, Yang X, Li H, Solway J, **Lussier YA**. Information Theory predicts new collaborations at the dynamic edges of the evolving social network. 2nd Annual VIVO Conference, Gaylord National Resort Wash DC, August 24-6, 2011. Under consideration.

Invited Scientific and Grand Round Lectureships

-See page 5 for Conference Keynotes and Commencement lectureships

-Peer Reviewed Highlight Papers

- 249 *Highlights of 2011 (ISMB)*. Network Modeling Identifies Molecular Functions Targeted by miR-204 to Suppress Head and Neck Tumor Metastasis. (213 submissions, 10% acceptance rate). 19th Annual International Conference on Intelligent Systems for Molecular Biology (ISMB). <http://www.iscb.org/ismbeccb2011/>
- 250 *Highlights of 2007 (ISMB)*. An integrative genomic approach to uncover molecular mechanisms of prokaryotic traits. (213 submissions, 10% acceptance rate). 15th Annual International Conference on Intelligent Systems for Molecular Biology (ISMB). <http://www.iscb.org/ismbeccb2007/program/highlights/>

251 *AMIA STB Late Breaking News* - Computational Phenomics and Thorough Biological Characterization Uncovers a Tumor Suppressor microRNA and its Regulatory Network. AMIA 2010 Summit on Translational Bioinformatics, San Francisco, March 2010

- Guest Speaker at International Institutions

252 *International Guest Speaker*. First Technical Theme-Biomedical Informatics, Agency for Science, Technology and Research (A*Star), Singapore, Feb 10 2003.

253 *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, 3/10/2005. <http://www.nii.ac.jp/intsympo/03/03.html>

254 *Genome Quebec* - “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.

255 *DAGSTUHL Seminar Speaker* 07132-“Ontology Interoperability: All you need is statistics” / ‘Toward Interoperability of Biomedical Ontologies’, 27.03.2007-30.03.2007. <http://www.dagstuhl.de/07132>

256 *Key State Laboratory of Bioelectronics*. Computing with ontologies in the practice of medicine and in disease gene discovery, (Chien-Shiung Wu Laboratory), Southeast University, Nanjing, 8/20/08

257 *University of Science and Technology of China, Hefei*. Computing with ontologies in Systems Biology and in disease gene discovery. School of Life Sciences, China (<http://www.ustc.edu.cn/en/>), 8/24/08.

258 *Ewha Womens University*, Hypothesis-Driven Translational Bioinformatics and microRNA-204 regulatory network in Head and Neck Cancers”. Seoul, 1/11/2011,

259 *KAIST- Korea Advanced Inst of Science & Technol*, 1/14/2011, “Hypothesis-Driven Translational Bioinformatics and Regulatory Networks of Head and Neck Cancers”, Daedeok Science Town, Daejeon, South Korea.

260 *Ajou University College of Medicine*, Hypothesis-Driven Translational Bioinformatics & High Throughput Phenomics, Suwon, South Korea, 1/14/11.

- Scientific Grand Rounds and Seminar Speaker in Universities and Nonprofit Organizations

261 *American College of Pathology* “Meet the Early Adopters: Lessons Learned and Benefits Gained”. - SNOMED Users’ Group Conference, Los Angeles, CA, Nov. 3, 2000.

262 *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.

263 *NIH/NCI Center for Bioinformatics Seminar, Ontologies and Terminologies in Biomedical Research*. Desiderata for Original and Classical Data Sharing and Reuse. Washington. 3/31/03.

264 *Univ of Buffalo Ctr of Excellence in Bioinform* “Phenotypic Networks and the Art of Bioinformatics”. 5/6/2004.

265 *Jackson Lab Mouse Genome Informatics*, “Biomedical Informatics Tools for Curators”, 6/29/2004, Bar Harbor.

266 *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”, 3/30/2005.

267 *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, 6/20/2005.

268 *The University of Texas Health Science Center at Houston* “Hypothesis-Driven Computational Methods for Molecular Medicine and Systems Biology: Genome Scale Integrative Analyses of Phenotypes”. School of Health Information Science in, 6/8/2005.

269 *Northwestern University Medical School, Center for Genetic Medicine and Dept. of Cell and Molecular Biology* “Computational approaches for genome scale analyses of phenotypes: bridging the phenotypic gap between clinical repositories and model organism databases”, 6/13/2005.

270 *University of Chicago Dept. of Pathology* “Computational approaches for genome scale analyses of phenotypes: improving the understanding of biological systems and the diagnosis of diseases”, 6/12/2005.

271 *Vanderbilt University Dept of Biomedical Informatics*, “Systems Biology approaches to the Metagenomic Analysis of Phenotypes”. 8/11/2005.

----- 2006-present (Since promotion to Associate Professor) -----

272 *University of Southern California Computational Biology Seminar, Division of Molecular and Computational Biology, Dept. Computational Biology & Bioinformatics*, “Phenomic Data and its Valuation Chain” 1/18/2007

- 273 *Interface 2007*, "Ontology Similarity Networks and Database Interoperability", 6/23/2006, Philadelphia.
- 274 *AACR Cancer Health Disparity Meeting 2007*, "Computational Systems Biology approaches to Elucidating Functional Mechanisms Underpinning Molecular Profiles of Cancers" (invited abstracts), 11/ 27/2007, Atlanta.
- 275 *ISMB C-SHALS, Conf on Semantics in Healthcare and Life Sciences of the Internatl Society for Comput Biol.* "Clinical Monitoring: Ontology-Anchored, NLP-Enabled, User-Directed Pharmacovigilence". 3/5-7/2008.
- 276 *Grand Rounds of the Ctr for Comput Biol & Bioinform of Indiana University School of Medicine*, "Networks, Protein Interactions and Diseases". 4/14/2008.
- 277 *City of Hope Cancer Center*. "Systems Biology of microRNAs in Cancer: A case study of Biomolecular Networks and Functional Modules" 6/2008.
- 278 *University of Michigan Health Informatics Grand Rounds*. "A report of hypothesis-driven translational bioinformatics: conceived *in silico*, corroborated *in vitro/in vivo*, and awaiting confirmation in an approved Phase II Clinical Trial". 10/14/2009.
- 279 *Northwestern Univ Genome Ctr* "Steering translation of hypothesis-driven bioinformatics: conceived *in silico*, corroborated *in vitro/in vivo*, and awaiting confirmation in an approved Phase II Clinical Trial". 10/29/2009.
- 280 *Arizona State University Dept. of Biomedical Informatics* "A tale of hypothesis-driven translational bioinformatics: from computational models to clinical trial". 12/17/2009.
- 281 *Washington University School of Medicine, Division of Statistical Genomics*, Genetic Seminar Series, Modeling Systems Biology of Complex Traits in the post-GWAS era. 11/19/2009.
- 282 *Medical College of Milwaukee*, Hypothesis-driven translational bioinformatics acceleration pipeline in silico, in vitro, in vivo, and in clinical trial". 11/3/2009.
- 283 *Dartmouth College and Dartmouth-Hitchcock Norris Cotton Cancer Center*. "Beyond Synergies, Hypothesis-Driven Translational Informatics as a Catalyst in Targeted Therapy Development" Nov 30th 2010.
- 284 *University of Vermont Grand Rounds of Informatics*, "Hypothesis-driven translational bioinformatics: from *in silico* models to clinical trials with transit *in vitro* and *in vivo*" 12/7/2010.
- 285 *Marshfield Clinic Genetics Seminar*, "Network modeling of therapeutic resistance initiates Phase II trial in oral cancer". 4/6/2011.
- 286 *University of Illinois in Chicago School of Medicine Center for Evidence-based Practice in the Underserved and the Reducing Health Disparities Through Informatics (RHeaDI)*. "Network models of therapeutic resistance and personal genomics in clinical practice" 4/14/2011.
- 287 *Biomedical Informatics program of University of Wisconsin-Milwaukee and Medical College of Wisconsin*, "Network models of therapeutic resistance translated *in vitro*, *in vivo* and in *clinical trials*" 5/2011.
- 288 *Guest-Speaker FDA - Center for Drug Evaluation and Research (CDER)- Committee for Advanced Scientific Education (CASE) Seminar*. DC 10/12/2011.
- Seminar Speaker at For Profit Corporations**
- 289 *IBM Watson Research Laboratory Computational Biology Seminar* "Knowledge Technologies for Clinical and Post-Genomics IT Interoperability". Yorktown, NY, 6/19/2002.
- 290 *First Genetic Trust*, Database Schema for Clinical Genomics. Sept. 2003, New Jersey.
- 291 *IBM Watson Laboratories*, "Phenomic Program" . Hawthorne. 11/3/2004.
- 292 *IBM Watson Research Center*, "Research Technical Discussions on Ontologies in Biomedicine", Industry Solution Laboratory, Hawthorne, NY, 7/8/2005.
- 293 *Philips Research* "Decision Making & Individual. Healthcare: Managing Inform R&D to achieve ROI", 10/8/08
- Clinical Grand Rounds and Invited Clinical Lectures**
- 294 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".
- 295 "Introduction à l'Internet pour la médecine interne et spécialisée". *Seminar, Department of Medicine, Faculté de Médecine*, Université Laval, Quebec City, PQ, February, 1997.
- 296 "Introduction à l'Internet pour le médecin omnipraticien". *Medical Education, Fédération des Médecins Omnipraticiens du Québec*, Sherbrooke, May 1, 1997.
- 297 "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.

298 “Methods and preliminary results of the MI-HEART Clinical Trial.” Grand Rounds, *St. Vincent's Hospital, Bridgeport, CT*, Nov. 27, 2001.

Intramural Lectures

-Annual Consortium & Seminar Speaker

- 299 *Univ of Sherbrooke Seminars*, "La SNOMED: l'assise de la recherche médicale informatisée". 6/5/95.
- 300 *Université Laval Seminar, Department of Medicine, Faculté de Médecine*, “Introduction à l’Internet pour la médecine interne et spécialisée”., Quebec City, PQ, February, 1997.
- 301 *Medical Education, Fédération des Médecins Omnipraticiens du Québec*, Introduction à l’Internet pour le médecin omnipraticien. Sherbrooke, May 1, 1997.
- 302 *Toyota Technological Institute at Chicago* "Collecting and Integrating Phenotypic Information from Multiple Databases for Correlation with Genomic Databases" 4/10/2006.
- 303 *Computation Institute, Univ.of Chicago*. “Systems Properties in a Comprehensive Genomic Networks”. 8/2006.
- 304 *Annual Computation Institute Fellows meeting* “Emerging Systems Properties in High Throughput Phenomic Studies”, *Mathematics for Syst Biol Seminar Series: Emergence in Complex Systems* Univ of Chicago, 2/21/2007.
- 305 *Annual meeting of the National Research Center for Multiscale Analyses of Genomic and Cellular Networks (MAGNET)* Predictions of Phenotypic Biomodules in Protein Interaction Networks, Wavehill, NY, 4/6/2007.
- 306 *University of Chicago Gastro Enterology Research Conference* “Computational Systems Biology approaches to Elucidating Functional and Molecular Mechanisms of Diseases”, 12/6/2007.
- 307 *University of Chicago CTSA Biological Translational Research Workshops Presentation*. Protein Interaction and Diseases, a year’s review. 3/31/2008.
- 308 *Annual meeting of the National Research Center for Multiscale Analyses of Genomic and Cellular Networks (MAGNET)*, A tale of hypothesis-driven translational bioinformatics: conceived *in silico*, confirmed *in vitro*, established *in vivo* and awaiting FDA approval for Phase II Clinical Trial. New York, NY, 3/13/2009.

Clinical Grand Rounds

- 309 *School of Medicine, Univ of Sherbrooke*, Dossier médical informatisé: Introduction à l’Internet pour médecins et chirurgiens". 6/30/1997.
- 310 *NYPH Allen Pavilion*. “Clinical Genomics.” Grand Rounds, 3/20/2003.
- 311 *Associate Internal Medicine Clinic Meeting House Staff - Milstein Hospital*, “Clinical Genomics.” New York Presbyterian Hospital, 5/19/2003.
- 312 *Grand Rounds, NYPH Milstein Hospital*, “Clinical Genomics Technologies, Updates.” New York. Nov 2nd 2004.
- 313 *Conf Series of General Internal Medicine of the Dept of Medicine, Columbia University*. Computational Systems Biology and Medicine: Approaches to high throughput and large scale analyses of phenotypes., 11/05/2005.
- 314 *New York Presbyterian Hospital - Allen Pavilion*, “Clinical Genomics Updates.” Grand Rounds, 7/15/2004.
- 315 *Grand Rounds of Rheumatology, The University of Chicago*, “Predicting the Molecular Underpinnings of Complex Phenotypes with High Throughput Phenomics”, Feb 13 2007.
- 316 *Emergency Resuscitation Center, The University of Chicago*, “Computational Approaches to Unveiling Novel Protein-Protein Interactions in Diseases”, 2/22/2007.
- 317 *Univ of Chicago Breast Cancer Seminar*, High-Throughput Analysis of Protein-Protein Interactions in Diseases”.
- 318 *Advanced Topics in Clinical Series, Dept. of Medicine, The University of Chicago*, Genomic Technologies: clinical challenges and opportunities (6/7/2007), Proteomic Technologies (6/21/2007).

Press Coverage

- “Phenotype Lookup and Linkup: New Methods Arise to Mine Phenotypes for Gene Function” by Vivien Marx, *BioInform*, September 5, 2008. <http://www.genomeweb.com/informatics/phenotype-lookup-and-linkup-new-methods-arise-mine-phenotypes-gene-function>
- “Some Diabetics Don’t Have What They Thought They Had” by Andrew Pollack, *The New York Times*, May 6, 2008, <http://www.nytimes.com/2008/05/06/health/research/06hist.html?ref=research>
- “A cancerous melody” by Jet Akst, *The Scientist*, Sept. 25, 2009. <http://www.the-scientist.com/blog/display/55998/>

Corporate Leadership and Professional Activities

Company Founder

- 1991 *Development Purkinje Inc.* <http://www.Purkinje.com>, founder with R St-Arneault, PP Yale, Y Levesque
- 1993 DPI Product: *Dossier* tablet-based CPOE-enabled EMR used in 3000 clinics & hospitals
 - 1994 DPI merged with “*Purkinje*”
- 1994 *Accurate Informatics and Medicine Consulting (AIM)*

Board of Directors, President or VP

- 1992-5 Board of Directors, Purkinje Inc. (advanced electronic medical records)
- 1982-3 President, Engineering Student Association (AGEG) of the University of Sherbrooke, Canada.
- 1991-3 Senior VP of Research and Development and of International Affairs, Purkinje.com.
- Conceived and completed 3 investment plans totaling \$18,000,000 (2nd -4th rounds of funding).
 - Managed \$4,000,000 R&D budget over four years (~40 employees; 65,000 term DAG/ontology).

Professional

- 1982-4 Analyst & programmer (part time) for Dr. Léon Tétreault, M.D. PhD., Dept. Medicine, Univ of Sherbrooke. Developed a clinical trial mgmt system used in 3 distinct trials phase 3a and 3b.
- 1982-4 *IBM Canada*, Comp Analyst & Product Engineer, 4 four-month internships, Québec & Toronto,

Consulting

- 1994-5 Scientific advisor, Hoechst Marion Roussel, Clinidata Division.
- 1997-8 Scientific advisor, Purkinje.com.
- 1983-8 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 University.
- 2000-1 Consultant, Columbia Innovation Enterprise / Columbia Technology Transfer, Columbia Univ.

Intellectual Property

- Patent 12/498,898: methods and systems for Extracting Phenotypic Information from the Literature via natural Language processing (C Friedman, YA Lussier, L Ena) -2009/7/7 (, baker Botts LLP file# 070050.3791)
- Patent 20060074991 - System and method for generating an amalgamated database. Clinigene. Internat. Patent App. PCT/US03/35470, filed 11/6/03, published as WO 2004/044818 on 6/2/04, priority claims to provis. U.S. app.#60/424,728, filed November 6, 2002. Lussier YA, Cantor M, Sarkar IN. App#: 11/120,715
- Terminological Map. Continuation-In-Part of Internat.Patent App#PCT/US03/35470. Lussier YA, Li J (2003).
- Invention report on DynaTreeviewer, Liu HF, Lussier YA, Friedman A (2002).
- Invention report on Phenogene Discovery System, Friedman A, Lussier YA, (2004).
- Invention report on viral database Palacios, Liu, Jabado, Briese, Hegi, Lussier, Lipkin WI. (2004). (GreeneChip).
- Invention on an oligonucleotide microarray for the detection of all known vertebrate viruses. Palacios G, Liu Y, Briese T, Lussier YA, Lipkin WI (2005).
- 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 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.