

## YVES A. LUSSIER, B.Eng., M.D.

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### Professional Profile

- Result-oriented renowned expert in translational informatics applied to clinical practice. Achieves creative, functional and comprehensive solutions – on schedule and within budget.
  - Solid experience: 20 years of leadership, senior management, clinical practice, scientific communications and consulting in hospital and biomedical information technology, 25 years of software development.
  - Proven dynamic and effective leader with a track record of team building and motivating team members to materialize a vision – clinical systems used for over 15 years in thousands of clinics and/or hospitals.
  - Recipient of 14 merits of excellence and scholarships, holds 2 patents.
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### Key Achievements & Expertise

#### Translational Bioinformatics

- Discovered tumor suppressors - biologically validated.
- Discovered combination therapy for head and neck cancer undergoing Phase II clinical trial
- Developed Panmicrobial multiplexed diagnosis array used in USA, Australia, China and Africa.
- Heterogeneous database integration
- Clinical data mining, ontologies & natural language processing

#### Clinical Information Systems

- Engineering commercial quality software: developed and implemented two award-winning clinical information systems. *Dossier* is in operations in more than 1,000 clinics & hospitals. *Vigilens* is in operation in the New York Presbyterian Hospital.
  - Strategic planning with clinicians & management
  - Customer relationship & team building
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### Experience and Achievements

#### Bio- & Clinical Informatics

#### Funded for clinical trial Phase II on novel network-targeted therapy.

Identified *in silico* aberrant molecular networks responsible for head and neck cancer resistance to Tarceva and co-designed novel combination therapy – since validated *in vitro* and *in vivo*.

**Panmicrobial Array** with 1200 vertebrate viruses that identifies infectious agents where traditional diagnosis methods fail (2003).

**Editorial Board and Director of Clinical Genomics**, Systematized Nomenclature of Medicine (SNOMED) of the College of American Pathologists (2003-8).

**Scientific Advisory Board**, Clinical Bioinformatics Ontology, Cerner corp. (2004-5).

**Scientific Board**, First Genetic Trust (2003-6).

**Associate Professor** (2006-present), Dept. of Medicine; The University of Chicago

**Assistant Professor** (2001-2006), **Post-Doctoral Research** (1998-2001)

Department of Biomedical Informatics, School of Physicians and Surgeons, Columbia University, New York

- Developed "*Vigilens*", a server-based and ontology driven clinical decision support system that has been in operation since 2003 at the New York Presbyterian Hospital. Every year, *Vigilens* monitors over 25,000,000 laboratory results and sends alerts over 130,000 critical events via pagers, emails and web portals
  - Grants and Contracts: cumulative >\$14,000,000.
  - >250 publications, presentations and invited lectures.
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## Experience and Achievements

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### Bio- &Clinical Informatics (page two)

#### Senior Medical and Research VP, Purkinje Inc. (1990-1994)

<http://www.purkinje.com/>

- Co-instigated, co-conceived, lead, managed and delivered an award-winning knowledge management and clinical software, *Dossier*, used in over 1,000 clinical settings.
- Managed an annual R&D budget of \$1M
- Instigated, planned, recruited and led a team of over 20 employees that consistently surpassed time and budget objectives.

#### Consultant in Biomedical Informatics, (1994-present)

- Developed strategic business plans for the clinical information systems of the New York Presbyterian Clinical information Systems and post-genomics information technology of the Columbia Genome Center.
  - Chief Clients: Hospitals, Health Care Systems, Clinical trial information system companies, Clinicians, Pharmaceutical corporations, Universities: Hoechst-Marrion-Roussel, MedCO, Siemens, IBM, Purkinje, Kaiser Permanente, Echobridge, Assistmed, Telargy, Venture Capitalists.
  - Design and re-engineering of pharmaceutical knowledge-management systems.
  - Design and development of clinical trial information systems.
  - Consolidation of venture capital investments.
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### Senior Management

#### Board of Directors, Council of Physicians, Dentists and Pharmacists, University of Sherbrooke Hospitals and Medical Centers (1994-7).

- Negotiated contractual agreements and bylaws.
- Co-developed and co-steered a vision to increase quality and productivity while containing costs (\$40 million out of a \$220 million annual budget).
- Succeeded in meeting the objectives, communicated consensus, trust and enthusiasm in spite of adversarial conditions.

#### Board of Directors and co-Founder, Purkinje Inc. (1992-5)

- Conceived and conducted three venture capital structures that generated a cumulative investment of \$18,000,000 in (1994-5). <http://www.purkinje.com/>

#### Board of Directors, Council of the School of Medicine, Un. of Sherbrooke (1983-4)

#### Board of Directors, Council of the Engineering School, Un. of Sherbrooke (1983-4)

#### President, Engineering Student Association, Université de Sherbrooke (1982-3)

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### Education

- 1998-2001 MRC-Funded Post-Doctoral Fellowship in Biomedical Informatics, Dept. of Biomedical Informatics, School of Physicians and Surgeons, Columbia U, NY.
  - 1989-1991 Post-Doctoral Medical Training, Department of Family Medicine, Faculté de Médecine, Université de Sherbrooke, QC, Canada
  - 1989 Doctorate in Medicine, Faculté de Médecine, Université de Sherbrooke, CA.
  - 1985 Bachelor of Engineering, Faculté des Sciences Appliquées, Université de Sherbrooke, QC, Canada
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### Clinical Practice

- 2002-present Dept of Medicine, Columbia University Medical Center and New York Presbyterian Hospital.
  - 1992-2000 Department of Family Medicine, University of Sherbrooke Medical Center (CHUS)
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