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Dr. Eric Quenneville

Correspondence language: French

Sex: Male

Date of Birth: 9/05

Canadian Residency Status: Canadian Citizen

Contact Information

The primary information is denoted by (*)

Address

Primary Affiliation (*)

970 Michelin, Suite 200
Laval Quebec H7L 5C1
Canada

Telephone

(*) 450-6672299

Email

(*) quenneville@biomomentum.com

Website

www.biomomentum.com

Dr. Eric Quenneville

Language Skills

Language	Read	Write	Speak	Understand
English	Yes	Yes	Yes	Yes
French	Yes	Yes	Yes	Yes

Degrees

1999/6 - 2007/5	Doctorate, Philosophiae Doctor, Biomedical Engineering, École Polytechnique de Montréal Degree Status: Completed Thesis Title: Les distributions de potentiel électrique dans le cartilage articulaire Supervisors: Michael D. Buschmann
1998/1 - 2000/3	Master's Thesis, Masters in Applied Sciences, Engineering Physics, École Polytechnique de Montréal Degree Status: Completed Thesis Title: Propriétés électroniques des couches minces de La _{0,5} Sr _{0,5} MnO ₃ Supervisors: Michel Meunier
1994/9 - 2000/3	Bachelor's, Bachelor in Engineering, Engineering Physics, École Polytechnique de Montréal Degree Status: Completed

Recognitions

2011/10	Jeunes Entrepreneur - Ouest du Québec - 10,000 Mouvement Desjardins Distinction Prix Entrepreneurial
2010/6	Premier prix national, catégorie innovations tech. - 10,000 Concours québécois en entrepreneuriat Distinction Prix Entrepreneurial
1999/12	Prix du meilleur mémoire - 1,000 Ecole Polytechnique de Montreal Distinction

User Profile

Engaged in Clinical Research?: No

Research Centres: None

Technological Applications: Medical equipment

Disciplines Trained In: Biomedical Engineering and Biochemical Engineering, Physical Engineering

Research Disciplines: Biomedical Engineering and Biochemical Engineering

Areas of Research: Arthritis / Osteo-Arthritis

Fields of Application: Biomedical Aspects of Human Health

Employment

2009/5	Chief Executive Officer Direction, Biomomentum Inc.
2008/4 - 2009/4	Acting Director Instrumentation, BioSyntech Canada Inc.
2007/4 - 2008/3	Research Scientist Instrumentation, BioSyntech Canada Inc.
2000/1 - 2007/3	Research Scientist (Part-time) Instrumentation, BioSyntech Canada Inc.
2003/1 - 2003/5	Teaching Assistant Génie chimique, École Polytechnique de Montréal
1998/1 - 2000/12	Laboratory Assistant Génie physique, École Polytechnique de Montréal

Affiliations

The primary affiliation is denoted by (*)

(*) 2009/5 Chief Executive Officer, Biomomentum Inc.

Research Funding History

Awarded [n=1]

2010/5 - 2018/4
Principal Investigator RS&DE Tax Credit, Grant, Operating
Clinical Research Project?: No
Project Description: Development of a medical device for the diagnostic of articular cartilage

Completed [n=2]

2013/5 - 2017/4
Co-applicant Electromechanics of cartilage: surface mapping, instrumentation/software development, structure/function relationships, Grant, Operating
Clinical Research Project?: No
Project Description: Two novel technologies to assess cartilage function have been discovered at Ecole Polytechnique and commercialization rights transferred to a Canadian company, Biomomentum Inc. (Dr. Quenneville is co-owner). Both technologies rely on the sensitivity of electrical signals, generated in cartilage under load, to cartilage composition, structure, and function. The first technology, the Arthro-BST, is a hand held device applied during arthroscopic surgery to contact the cartilage surface. The second is a non-invasive method akin to electrocardiography where load-induced electric fields in cartilage are detected by electrodes contacting skin around the knee. This research project aims to carry out a series of studies that will permit these bioelectrical signals to be related to

cartilage composition, structure, and function by comparing to gold standard destructive techniques such as histology, biomechanics, and biochemistry.

2015/8 - 2017/3
Co-investigator

NRC-IRAP: Redesign of an arthroscopic medical device for cartilage diagnostic, Grant, Operating

Clinical Research Project?: No

Project Description: A medical device for evaluation of cartilage during arthroscopy, the Arthro-BST, is redesigned to add wireless connectivity, to improve its electrical performances, usability in the operating room and its diagnostic capabilities for the cartilage of the knee.

[n=]

2004/1 - 2004/1

, Fellowship

Funding Sources:

2004/1 - 2004/1 Ecole Polytechnique de Montreal
Bourse Labrèche-Viger
Total Funding - 8,000

2003/1 - 2003/1

, Fellowship

Funding Sources:

2003/1 - 2003/1 Ecole Polytechnique de Montreal
Bourse Fondation Bechtel
Total Funding - 10,000

2003/1 - 2003/1

, Fellowship

Funding Sources:

2003/1 - 2003/1 Graduate Student Award
Total Funding - 9,500

2000/5 - 2002/5

, Fellowship

Funding Sources:

2000/5 - 2002/5 FCAR
Bourse ÉS B
Total Funding - 40,000

2001/1 - 2002/1

, Fellowship

Funding Sources:

2001/1 - 2002/1 Ecole Polytechnique de Montreal
Bourse Fondation J.A. DeSève
Total Funding - 6,000

2001/1 - 2001/1

, Fellowship

Funding Sources:

2001/1 - 2001/1 Ecole Polytechnique de Montreal
Bourse Fondation Bechtel
Total Funding - 6,000

1998/5 - 2000/5

, Fellowship

Funding Sources:

1998/5 - 2000/5 CRSNG
Bourse ÉS A
Total Funding - 35,000

Student/Postdoctoral Supervision

Doctorate [n=1]

2013/5 - 2017/5 Sotcheadt Sim (Completed) , Ecole Polytechnique de Montreal
Co-Supervisor Degree Name: Philosophiae Doctor
Specialization: Biomedical Engineering
Student Degree Start Date: 2013/5
Student Degree Received Date: 2017/5
Student Canadian Residency Status: Canadian Citizen
Thesis/Project Title: Développement d'une base de données cartographiques et
demodèles statistiques pour la caractérisation du cartilage articulaire
Present Position: Chercheur, Biomomentum

Staff Supervision

Number of Scientific and Technical Staff: 35
Number of Visiting Researchers: 0
Number of Highly Qualified Personnel in Research Training: 4
Number of Personnel: 40

Publications

Journal Articles

1. Refer here for complete publication list: https://www.ncbi.nlm.nih.gov/sites/myncbi/1PSL3YthT_skQ/bibliography/47580468/public/?sort=date&direction=ascending . ,