

# Curriculum Vitae

Afsaneh Motamed-Khorasani, Ph.D.

## Contact Information

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## Education

**Doctor of Philosophy**  
Physiology (Reproductive Endocrinology/Cancer Research)  
Department of Physiology, Faculty of Medicine  
University of Toronto  
2001 - 2006

**Master of Science**  
Reproductive Physiology  
Department of Obstetrics and Gynecology, Faculty of Medicine  
University of British Columbia  
1997 - 1999

**Bachelor of Science**  
Obstetrics  
Department of Obstetrics, Faculty of Medicine  
Medical University of Shahid Beheshti  
1988 - 1992

## Details of Employment

**Research Scientist (R&D)**  
Microbix Biosystems Inc., R & D Department/IVF Lab, Toronto, ON  
Aug. 2007 – Aug. 2008

**Instructor/Lecturer**  
Queen's College, Mississauga Toronto, ON  
Mar. 2007 – Aug. 2007

**Scientific Advisor/Research Scientist**  
Department of Technology Transfer/Physiology  
Faculty of Medicine, University of Toronto, Toronto, ON  
Sep. 2000 – Jun. 2007

**Research Scientist**  
University of British Columbia, Faculty of Medicine, Department of Obst/Gyn, Vancouver, BC  
Sep. 1996 - Aug. 2000

**Obstetrician/Family Practitioner**  
Dr. Bahonar Medical Clinic, Tehran, Iran  
Sep. 1993 - Aug. 1996

## **TRAINING AND DEVELOPMENT**

### **NIH Certificate in Clinical Research Training/FDA Regulations**

Los Angeles, CA, USA, Aug 15, 2008

### **Vector NTI Software Training**

Microbix Biosystems Inc., Toronto, ON, Canada, Feb. 15, 2008

### **NIH Technology Transfer Training**

Toronto, ON, Canada, May. 27, 2007

### **IPIC Patent Agent Training Course**

IPIC, Toronto, ON, Canada, 2006

### **Certificate in Introduction to Intellectual Property**

McGill University, Montreal, ON, Canada, 2006

### **Certificate in Teaching Higher Education (THE500H1)**

The University of Toronto, Toronto, ON, Canada, 2004

### **Course in Proteomics and Functional Genomics (JTB2010H)**

University of Toronto, Toronto, ON, Canada, 2003

### **Course in Labeling and Hybridization of Microarray Chips**

The Microarray Center Clinical Genomics Center, Toronto, ON, Canada, 2002

### **Certificate in Statistical Learning & Data Mining**

Georgetown University, Washington DC, USA, 2002

### **Certificate of Instructional Skills Workshop**

UBC Faculty Development Program, Vancouver, BC, Canada, 1999

### **Permanent Permit of Professional Clinical Practice**

Ministry of Health, Treatment and Medical Education, Tehran, Iran, 1996

### **Certificate of Professional clinical Practice**

Manzarieh Medical Clinic, Tehran, Iran, 1995

### **Certificate in Computer Operating, Basic/Turbo C Programming**

Micro-system Education Center, Tehran, Iran, 1995

## **Peer-Reviewed Papers**

**Differentially Androgen-Modulated Genes in Ovarian Epithelial Cells from BRCA1 Mutation Carriers and Control Patients Predict Ovarian Cancer Survival and Disease Progression.** Motamed-Khorasani A, Jurisica I, Letarte M, Shaw PA, Parkes RK, Zhang X, Evangelou A, Rosen B, Murphy KJ, Brown TJ. *Oncogene*, July 10, 2006, doi: 10.1038/sj.onc.1209773.

**Mechanism of Cholesterol Inhibition on Progesterone-Induced Acrosome Reaction of Human Sperm.** Motamed-Khorasani A, Lee CYG, Cheung AP. *Journal of Andrology*, July/Aug., 2000, 21(4).

**Assessment of Progesterone-Induced Acrosome Reaction by Biotinylated Monoclonal Antibody Probes.** Lee CYG, Motamed-Khorasani A, Dorjee S. *The American Journal of Reproductive Immunology*, 1998; 39:3, 164-171.

## **Invited Revisions/Acknowledgements**

**Application of Real-Time PCR for Quantitative Detection of *Camylobacter Jejuni* Poultry, Milk, and Environmental Water.** C. Yang, Y. Jiang, K. Huang, C. Zhu, Y. Yin. *FEMS Immunology and Medical Microbiology* 38 (3), 265-271.

## Research Abstracts and Presentations

**Altered TGF- $\beta$  Signaling by FLJ12604 in Ovarian Cancer Cells.** P. Shathasivam, A. Motamed-Khorasani, J. Wrana, K. Brown, I. Jurisica, T. Brown. 24<sup>th</sup> Annual Research Day, Department of Physiology, Faculty of Medicine, The University of Toronto, May 4, 2007.

**Androgen-Altered Gene Expression Profiles in Ovarian Epithelial Cells from BRCA1 and 2 Mutation Carriers as Compared to Cells from Control Patients.** Conjoint Annual Meeting of the American Society for Reproductive Medicine and the Canadian Fertility and Andrology Society, ASRM/CFAS, Montreal, Quebec, Canada, October 2005.

**Integrated Analysis of Androgen-Altered Genes in Epithelial Ovarian Cancer Using a Predicted Human Protein-Protein Interaction Network.** 95<sup>th</sup> American Association of Cancer Res. annual meeting, Orlando, Florida, USA, 2004.

**Comparative Expression Profiles of Androgen-Responsive Genes in Malignant/Non-Malignant Ovarian Cells.** HUPO 2nd Annual World Congress, annual meeting, Montreal, Canada, 2003.

**Androgen Treatment Effects in Malignant/Non-Malignant Ovarian Epithelial Cells.** Annual meeting for the Dept. of Physiol. Res. Day/Frontiers in Physiology, University of Toronto, Toronto, Canada, 2002.

**Progesterone and GnRH Surface Receptors in Human Spermatozoa,** Motamed-Khorasani A, Lee CYG, 2000.

**Effects of Progesterone and Cholesterol on Bovine *In Vitro* Fertilization.** Motamed-Khorasani A, Lee CYG, 1999 Chinese Canadian Academic & Professional Society annual meeting, Vancouver, BC, Canada, 1999.

**Progesterone and Cholesterol Effect on *In Vitro* Embryo Production in Dairy Cattle.** Motamed-Khorasani A, Lee CYG, 32<sup>nd</sup> annual Meeting of Society of Reproduction, Washington State University, Pullman, Washington, USA, 1999.

**Effects of Progesterone and Cholesterol on Capacitation and Acrosome Reaction of Bovine Sperm.** Motamed-Khorasani A, Rajamahendran R, Lee CYG, 32<sup>nd</sup> annual Meeting of Society of Reproduction, Washington State University, Pullman, Washington, USA, 1999.

**Pre-Treatment of Sperm with Progesterone & Cholesterol & Its Effect on *In Vitro* Embryo Production in Cattle.** Motamed-Khorasani A, Rajamahendran R, Lee CYG, 25th Annual Conference of International Embryo Transfer Society; Quebec City, Canada, 1999.

**Mechanism of Natural and Induced Apoptosis in Human and Mice Testis.** Motamed-Khorasani A, Rajamahendran R, Lee CYG, UBC, Vancouver, BC, Canada, 1999.

**Assessment of Progesterone-Induced Acrosome Reaction by Biotinylated Monoclonal Antibody Probes.** Lee CYG, Motamed-Khorasani A, Dorjee S. The American Journal of Reproductive Immunology, 1998; 39:16.

**Mechanism of Cholesterol Inhibition on Progesterone-Induced Acrosome Reaction of Human Sperm.** Motamed-Khorasani A, Lee CYG, 16th World Congress on Fertility & Sterility, San Francisco, California, USA, 1998.

**Developmental Competence of Bovine Oocytes Matured *In Vitro* in Various Environments.** Motamed-Khorasani A, Rajamahendran R, Lee CYG, 78<sup>th</sup> Canadian Society of Animal Sci. Annual Conf. (CSAS), University of BC, Vancouver, BC, Canada, 1998.

**Assessment of Progesterone-Induced Acrosome Reaction by Biotinylated Monoclonal Antibody Probes.** Motamed-Khorasani A, Lee CYG, 78<sup>th</sup> Canadian Society of Animal Sci. Annual Conf. (CSAS), University of BC, Vancouver, BC, Canada, 1998.

**New Advances in Sexing Sperm,** Motamed-Khorasani A, UBC, Vancouver, BC, Canada, 1997.

## **Invited Lectures**

**The Signs and Preventive Measures of Stroke.** Heart and Stroke Foundation of Ontario Meeting. Toronto, ON, May 27, 2007.

**Androgen Effects in Ovarian Epithelial Cells Potentially Involved in Cancer Predisposition or Progression.** Persian-Canadian Biomedical Scientists (PCBMS), Toronto, ON, February 23, 2007.

**State-of-the-Art High throughput Array Technologies.** National Research Center for Genetic Engineering and Biotechnology. Tehran, Iran, February 23, 2005.

## **Academic Appointment**

### **Senior Research Scientist**

Microbix Biosystems Inc.  
Toronto, ON, Canada  
Aug. 14, 2007 – Jul. 21, 2008

### **Science Instructor**

College Student Learning Program  
Queen's College, Mississauga, ON  
Mar. 2007 – Aug. 2007

### **Scientific Advisor/Research Scientist**

Patent Registration/Commercialization Program  
Faculty of Medicine, Dept. of Technology Transfer, University Of Toronto  
Sep. 2000 - Mar. 2007

### **Teaching Assistant**

ANSC406  
Faculty of Medicine, Dept. of Animal Sciences, University of British Columbia  
Sep. 1999 - Dec. 1999

## **Training of Highly-Qualified Personnel**

### **Advisory Committee Member:**

Ashraf Ahmadi, Ph.D. Candidate  
Department of Biomedical Sciences, Chalmers University, Goteborg, Sweden  
2007

### **Examination Committee Member:**

Ashraf Ahmadi, Ph.D. Candidate  
Department of Biomedical Sciences, Chalmers University, Goteborg, Sweden  
2007

## **Professional Memberships**

### **Persian-Canadian Biomedical Scientists (PCBMS)**

2005 - Present

### **Intellectual Property Institute of Canada (IPIC)**

2005 - Present

### **Toronto Biotechnology Initiative (TBI)**

2005 - Present

### **Endocrine Society**

2004 - Present

## **AWARDS/SCHOLARSHIPS**

### **Department of Physiology Fellowship (\$5,000)**

Faculty of Medicine, Dept. of Physiology, University of Toronto  
2004 - 2006

### **Kristi Piia Callum Memorial Fellowship in Ovarian Cancer (\$8,000)**

Faculty of Medicine, Dept. of Physiology, University of Toronto  
2003 - 2004

### **Dept. of Physiology Stipend (\$67,000)**

Faculty of Medicine, Dept. of Physiology, University of Toronto  
2001 - 2006

### **Dept. of Physiology Scholarship (\$49,500)**

Faculty of Medicine, Dept. of Physiology, University of Toronto  
2001 - 2004

### **Graduate Student Fellowship (\$2,500)**

Faculty of Medicine, Dept. of Obstetrics & Gynecology, University of British Columbia  
1999 - 2000

### **Project Assistantship (\$4,500)**

Faculty of Medicine, Dept. of Medical Genetics, University of British Columbia  
1998 - 1999

### **Graduate Research Assistantship (\$54,000)**

Faculty of Medicine, Dept. of Obstetrics & Gynecology, University of British Columbia  
1997 - 2000

### **Teaching Assistantship (\$1,500)**

Faculty of Medicine, Dept. of Animal Sciences, University of British Columbia  
1999 - 2000

## **Extracurricular Activities**

### **Member of Board of Directors**

TSCC 1848, Toronto, ON  
Mar. 2007, Present

### **Invited Speaker**

Heart and Stroke Foundation of Ontario May 2007 Seminar, Toronto, ON  
May 27, 2007

### **Community Representative**

Art History Representative, Toronto, ON  
Jul. 15, 2005

### **Founder/President/Directing manager**

University of Toronto Choir Group, University of Toronto, Toronto, ON  
Feb. 2004 - Present

### **Fund Raiser/Choir Singer**

University of Toronto Choir Group, University of Toronto, Toronto, ON  
Feb. 2004 - Present

### **Volunteer Administrative Assistant**

Immigration Services Society, Vancouver, BC  
Sep. 1996 - Jan. 1997

### **Supervisor (1-week project of up-rooting polio in Iran)**

Shemiranat Health Center, Tehran, Iran  
Aug. 15, 1994 - Aug. 18, 1994