

Afsaneh Motamed-Khorasani

Tel: (+1) 416-454-5589
email@afsanehmotamed.com

115 Soudan Ave. Ave.
Toronto, ON M4S 1V5

HIGHLIGHTS of EXPERTISE

- Twelve years of hands-on experience in a wide variety of molecular biology techniques:
 - Protein interaction assay, Affymetrix, cDNA/Tissue Microarray, database Analysis/bioinformatics
 - Primary/secondary tissue culture (ART/human *in vitro* fertilization, neuronal/cancer cells), Cloning, and transfection
 - Northern, Southern, and Western blotting, real-time PCR and related analysis, and RNA interference
 - Monoclonal antibodies and FACS/Flow Cytometry, Immunohistochemistry/EIA, and assay development/optimization
- Seven years of experience/practice in clinical setting
- Many years of experience in GLP/GMP/GCP, FDA regulatory requirements, and clinical trials (with NIH certificates)
- Proven ability to work effectively as part of a multidisciplinary research team
- Proven scientific/technical writing, teaching, and management/supervisory skills
- High level of competencies in interpersonal skills, project management, negotiation/conflict resolution
- Well-organized, detail-oriented, tenacious, and proactive

EDUCATION

- Ph.D. (Reproductive Endocrinology/Cancer Research)** **Jan. 2001-Jan. 2006**
University of Toronto, Dept. of physiology, Faculty of Medicine, Toronto, ON, Canada
- M.Sc. (Reproductive Physiology)** **Sep. 1997-Sep. 1999**
University of BC, Dept. of Obstetrics and Gynecology, Faculty of Medicine, Vancouver, BC, Canada
- B.Sc. (Obstetrics)** **Sep. 1988-Dec. 1992**
Shahid Beheshti University of Medical Sciences, Tehran, Iran

EMPLOYMENT HISTORY

- Microbix Biosystems Inc.** **Aug. 2007-Aug. 2008**
- Acted as research scientist in the R&D department, developed and optimized different assays (Molecular biology, Genomics, real-time PCR, FACS, Immunoassay, and IVF)
 - Established an IVF lab and brought it to be fully operational with greater than 80% cleavage rate
 - Developed different proposals and took them to the stage of being fully optimized/operational (real-time PCR using Vector NTI software for designing probe, primers, and trouble shooting)
 - Practiced in GLP/GMP environment
 - Developed SOPs for assay development followed by methodology optimization
- Queen's College, Mississauga, ON, Lecturer/Instructor** **Mar. 2007-Aug. 2007**
- Instructed, college/high school students in the subjects of Biology, Molecular Biology, Genetics, Physiology, Anatomy, Health, and English
- University of Toronto, Toronto, ON, Research Scientist/Scientific Patent Advisor** **Sep. 2000-Apr 2007**
- Utilized a wide variety of molecular biology techniques to maximize the project efficiency
 - Created/managed databases for the high throughput studies at hand for data mining
 - Technical Advisor for Technology Transfer Department
 - Searched scientific Patent database, drafted, filed, and executed patent applications
- University of British Columbia, Vancouver, B.C., Research Scientist** **Sep. 1996- Aug. 2000**
- Participated in a variety of technical duties involved in human/bovine IVF Lab procedures to include, assisting with oocyte retrievals, insemination and embryo transfers, freezing sperm/oocyte/embryo
 - Published two scientific papers as a results of my work in the lab
 - Managed the lab activities including experimental design, experiments, data collection/analysis, trouble shooting, collaborations, reports/manuscripts, and publication
- Dr. Bahonar Medical Clinic, Tehran, Iran, Obstetrician/Family Practitioner** **Sep. 1993-Aug. 1996**
- Established my own clinic to visit Obstetric patients
 - Administered medication, birth control pills, IUDs for patients based on their conditions
 - Assisted pregnant women in natural deliveries and administered post-partum/neonatal care, vaccination, family planning, and consulting

Afsaneh Motamed-Khorasani

REFEREED PUBLICATIONS

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; 39:16.

ABSTRACTS AND PUBLICATIONS

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. 95th 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, 32nd 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, 32nd 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.

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, 78th 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, 78th 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.

AWARDS/SCHOLARSHIPS

Department of Physiology Fellowship, University of Toronto, Dept. of Physiology	2004-2006
Kristi Piia Callum Memorial Fellowship in Ovarian Cancer, University of Toronto, Faculty of Medicine	2003-2004
Dept. of Physiology Scholarship, University of Toronto, Dept. of Physiology	2000-2003
Graduate Student Fellowship, University of British Columbia, Dept. of Obstetrics & Gynecology	1999-2000
Project Assistantship, University of British Columbia, Dept. of Medical Genetics	1998-1999
Graduate Research Assistantship, University of British Columbia, Dept. of Obstetrics & Gynecology	1997-1999

Afsaneh Motamed-Khorasani

TEACHING EXPERIENCE

Instructed high school/College students (Biology, Health Sciences) Queen's College, Mississauga, ON, Canada	Mar. 2007-Present
Performed teaching assistantship for a graduate course in reproductive physiology University of British Columbia, Vancouver, BC, Canada	1999-2000
Taught several undergraduate/graduate student the lab techniques in the field of molecular biology University of Toronto, Toronto, ON, Canada	1997-2006

Extracurricular ACTIVITIES

Invited Speaker at Heart and Stroke Foundation of Ontario Seminar , Toronto, ON.	May 27, 2007
Community Representative , Art History Representative, Toronto, ON.	Jul. 15, 2005
Founder/President/Directing manager , U of T Student Choir Group, University of Toronto, Toronto, ON.	Feb. 2004-Present
Fund Raiser/Choir Singer , U of T Student 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. 15-18, 1994

References Available Upon Request