

Dr. HOSSEIN FAKHRAI-RAD

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EDUCATION:

- Ph.D in Medical Genetics, Karolinska Institute, Stockholm, Sweden.
1995-1999
- B.Sc in Molecular Biology and Biotechnology, Stockholm University, Stockholm,
Sweden. 1991-1994

PROFESSIONAL EXPERIENCE:

- May 2008 – Present
 - Visiting scholar at Stanford Genome Technology Center, Stanford University,
Palo Alto, CA
- October 2007 – Present
 - Co-founder at Genophen Inc. Silicon Valley, CA
- May 2007 – September 2007
 - Co-founder and CFO at Gentelligent Inc., Belmont, CA
- October 2005 – April 2007
 - Associate Director at Affymetrix Inc., South San Francisco, CA
 - Led Affymetrix genotyping and discovery service team consisted of 40
Scientists, Lab Managers, and Research Associates
 - (ParAllele Bioscience was acquired by Affymetrix in 2005)
- January 2004 – September 2005
 - Senior-Manager at ParAllele Bioscience Inc., South San Francisco, CA
 - Supervise ParAllele MRD discovery team consisted of 5 Research
Associates
- January 2002 – December 2003
 - Scientist and Manager at ParAllele Bioscience Inc., South San Francisco, CA
 - Process development of MRD technology
- August 2000 – December 2001
 - Post-Doctoral Research Fellow at Stanford Genome Technology Center.,
Stanford University, Palo Alto, CA
 - Process development and optimization of Molecular Inversion Probe
(MIP) and Mismatch Repair Detection (MRD) technologies
- January 2000 – July 2000
 - Post-Doctoral Research Fellow at Karolinska Institute., Stockholm, Sweden
 - Characterization of candidate genes for Type 2 diabetes in congenic rat
strains

PUBLICATIONS:

1. Genetic analysis of non-insulin dependent diabetes mellitus in the GK rat.
Galli, J., Li, L.S., Glaser, A., Östensson, C.G., Jiao, H., **Fakhrai-Rad, H.**, Jacob, H.J., Lander E.S., and Holger Luthman. Nature Genetics 12: 31-37, 1996
2. Identification of rat susceptibility loci for adjuvant-oil-induced arthritis.
Lorentzen, J.C., Glaser, A., Jacobsson, L., Galli, J., **Fakhrai-Rad, H.**, Klareskog, L., and Luthman, H. Proc. Natl. Acad. Sci 95: 6383-6387, 1998
3. Pathophysiological and genetic characterization of the major diabetes locus in GK rats.
Galli, J., **Fakhrai-Rad, H.**, Kamel, A., Marcus, C., Norgren, S., and Luthman, H. Diabetes 48: 2463-2470, 1999
4. A rat genetic linkage map including 67 new microsatellite markers.
Fakhrai-Rad, H., Jiao, H., Li, L.S., Glaser, A., Koike, G., Jacob, H.J., Luthman, H., and Galli J. Mammalian Genome 10: 1102-1105, 1999
5. Insulin degrading enzyme identified as a candidate diabetes susceptibility gene in GK rats. **Fakhrai-Rad, H.**, Nikosjov, A., Kamel, A., Norgren, S., Luthman, H., and Galli, J. Hum Mol Genet 9: 2149-58, 2000
6. Phenotyping of individual pancreatic islets locates genetic defects in stimulus secretion coupling to *Niddm1* within the major diabetes locus in GK rats.
Lin, J.M., Örsäter, H., **Fakhrai-Rad, H.**, Galli, J., Luthman, H., and Bergsten P. Diabetes 50: 2737-2743, 2001
7. Pyrosequencing, An accurate detection platform for single nucleotide polymorphism.
Fakhrai-Rad, H., Pourmand, N., and Ronaghi, M. Hum Mutat 19: 479-485, 2002
8. Multiplexed genotyping with sequence-tagged molecular inversion probes.
Hardenbol, P., Baner, J., Jain, M., Nilsson, M., Namsaraev, E.A., Karlin-Neumann, G.A., **Fakhrai-Rad, H.**, Ronaghi, M., Willis, T.D., Landegren, U., and Davis, R.W. Nat Biotechnol 21: 673-678, 2003
9. SNP Discovery in Pooled samples with Mismatch Repair Detection.
Fakhrai-Rad, H., Zheng, J., Willis, T.D., Wong, K., Suyenaga, K., Moorhead, M., Eberle, J., Thorstenson, Y.R., Jones, T., Davis, R.D., Namsaraev, E., and Faham, M. Genome Res. 14(7):1404-12, 2004
10. Age-Dependent Regulation of Lipogenesis in Human and Rat Adipocytes.
Kamel, A.F., Norgren, S., Strigard, K., Thorne, A., **Fakhrai-Rad, H.**, Galli, J., and Marcus, C. J Clin Endocrinol Metab. 89(9):4601-6, 2004
11. Multiplexed variation scanning for 1,000 amplicons in hundreds of patients using mismatch repair detection (MRD) on tag arrays.
Faham M, Zheng J, Moorhead M, **Fakhrai-Rad H**, Namsaraev E, Wong K, Wang Z, Chow SG, Lee L, Suyenaga K, Reichert J, Boudreau A, Eberle J, Bruckner C, Jain M, Karlin-Neumann G, Jones HB, Willis TD, Buxbaum JD, Davis RW
Proc. Natl. Acad. Sci 102(41):14717-22, 2005

12. High-resolution quantitative trait locus analysis reveals multiple diabetes susceptibility loci mapped to intervals <800 kb in the species-conserved Niddm1i of the GK rat.
Granhall C, Park HB, **Fakhr Rai-Rad H**, Luthman H.
Genetics. 174(3):1565-72, 2006

13. Genome-wide linkage analysis of a Parkinsonian-pyramidal syndrome pedigree using 500 K SNP arrays
Shojaee S, Sina F, Sadat Banihosseini S, Hossein Kazemi M, **Fakhr Rai-Rad H**, Langston W, Kalhor R, Shahidi GA, Ronaghi M, Elahi E.
Am J Hum Genet. 82(6):1375-84, 2008