Jalal Taneera

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Professional profile

A technically skilled scientist, result-driven, team development, project coordinator, verifiable achievements in scientific research work. More than 15 years of experience in medical research of them 10 years on stem cell biology and Diabetes research.

Area of Expertise

- Diabetes Research
- Human islets
- Gene expression array
- Lab Animals
- Hematology
- FACS sorting
- Gene sequencing
- Genetics
- Writing articles
- Histology/Tissue section
- Immun-staining
- ELISA and RIA
- siRNA
- Cell Culture
- Statistical analysis
- Stem cell biology
- Teaching/supervision
- Review articles

Employments & Achievements

2016 – Present: Assistant Prof. at Medical college, Institute for medical and health sciences, University of Sharjah, United Arab of Emirates.

2011 – 2016: Research scientist at Lund University Diabetes Center (LUDC), Department of diabetes and Endocrinology.

Achievements are:

- Genetic profiling of human pancreatic islets.
- Publish more than 20 scientific papers.
- Young investigator award, 2013, Scandinavian Association for the Study of Diabetes, Helsinki, Finland.
- Identification of 8 novel genes for type 2 Diabetes
- Characterization of γ-aminobutyric acid (GABA) signaling in beta cell in diabetic and non-diabetic individuals.
- Profiling the genetic control of human beta cell cycle in human islets from diabetic and non-diabetic donors.
- Identification of INS-IGF2 gene as an autoantigen in the pathogenesis of type 1 diabetes.
- Implementing novel approaches to discover type 2 diabetes genes

2007- 2010: Coordinator of The Human Pancreatic Islets facility at Lund University (LUDC).

Job description:

- Contact between transplantation surgeons and scientists.
- Characterize the function of islets donated (hormone secretion, microarray and gene-wide association studies (GWAS).
- Create a clinical national database.

- Distribution of islets for in vitro research studies.

2002-2007- PhD study at Clinical Research Center, Lund University

Achievements:

- Investigate the ability of adult bone marrow stem cell to tras-differentiate into pancreatic beta cell, endothelial and cardiomycytes.
- We demonstrate that adult stem cells do not have the ability to trans-differentiate into pancreatic beta cells whereas they can trans-differentiate into cardiomyocytes and endothelial cells.
- A big part of my study was a histological analysis to track the fate of stem cell into pancreatic beta cells in lab. animals.

2014- Present: Medical Advisor, Comoray, Lund, Sweden

2014- Present: Managing Director, MadeinPalestine.se, Lund

Education & Qualifications

- **2002-2007- Ph.D. in Experimental Endocrinology**, Clinical Research Center, Lund university, Lund, Sweden. Title of the thesis ***"Stem cell Plasticity, hype or Hope?***

- **1999-2001- M.Sc. in biomedical laboratories,** Dept. of infectious diseases and Medical Microbiology, Lund University. Title of the thesis ***"Extragastric infection and culture conditions of five Helicobacter species"***

- **1992-1997- B.Sc. in Medical Laboratory Technology,** Al-Isra University, Amman, Jordan

Courses

- Bacteriology and virology course, 1999.
- Microbial adhesion and virulence, Lund, 1999 and 2000.
- Bioinformatics, sequence and structure, 2000.
- Immuno-Histochemistry training- NOVO NORDISK. Hegedorn institute, Copenhagen, Denmark.
- Cell Transfeer and Micromanipulator, University of Tokyo, JAPAN.
- BioBusniness course, 2006.
- Several Diabetology courses (2007, 2008 and 2009), Sweden.
- Research Education, 2009.
- Perspective on Learning, 2012.
- Problem Based Learning, 2013.
- How to write scientific paper in English, 2000.
- Irradiation instruments, 2003
- Transgenic techniques and embryo manipulation, 2004.
- Flow cytometry course, 2004.
- Laser scanning microscopy, 2004.
- Experimental animals, operation techniques, 2003.
- Bioinformatics, sequencing and structure of protein and DNA.
- Multifactorial diseases.
- Clinical Trials according to good clinical practice, 2016.

Award

- New investigator award, 34th annual scientific meeting of the international society of experimental Hematology, Glasgow, UK. 2005.

- Best Young Investigator on diabetes research in Scandinavian countries, 2013, Helsinki, Finland.

Pedagogial merits

- Lecturer (part time) for undergraduate student (immunology)
- Supervisor for master students (full time).
- Supervisor for PhD student (part time).

Peer Review

Member of the editorial board of

- Journal of Endocrinology and Diabetes Research.
- Journal of Endocrinology and Metabolism.
- In addition, Iam a reviews for several scientific journals such as Islet, Tissue and cells, Diabetologia and E. J. of Endocrinology.

Googel Scholar

- Citation 2707
- H-index 17
- I 10-index 24

Conferences

International conferences:

- 34th annual scientific meeting of the international society of experimental Hematology, Glasgow, UK. 2005.
- 15th Congress of the European Hematology Association, Milan, Italy 2006.
- American Society of Hematology (ASH) 49th Annual Meeting and Exposition, 2007; Atlanta, Georgia American society of Hematology (USA).
- New methodology for multi-factorial diseases. Malmö, Sweden, 2008.
- 2nd International Brussels Pancreatic Islets symposium, Brussels, Belgium, 2009.
- What's next? Diabetes and obesity in the postgenome era. Malmö, Sweden 2009.
- European association for study diabetes (EASD), 42th annual meeting, Copenhagen Denmark. 2006.
- European association for study diabetes (EASD), 45th annual meeting, Vienna, Austria.
- European association for study diabetes (EASD), 47th annual meeting, Lisbon, Portugal. 2011.
- European association for study diabetes (EASD), 49th annual meeting, Barcelona, Spain. 2013.
- Scandinavian association for study of diabetes (SSSD), 45th annual meeting, Malmö, Sweden, 2010.
- Scandinavian association for study of diabetes (SSSD), 48th annual meeting Helsinki, Finland, 2013.
- The genetics of diabetes in the genome sequencing era (SGGD), 2013, Malmö, Sweden.

Languages

Arabic – First mother Tongue
English – Excellent both spoken and written.
Swedish – Understand both spoken and written

IT Skills

Microsoft – Excel, Word, Power point, Photoshop, EndNote, SPSS.

Driving License

Yes – B class

Interest

History, Travelling, watching science fiction movie

References

Prof. LEIF GROOP
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Publications

1. GRINCH cell line; a new tool for screening islet function in vitro. **Taneera J**, Wollheim C.B., Groop L. Submitted to **Diabetes**. 2015.

2. Identification of novel genes for glucose metabolism based upon expression pattern in human islets and effect on insulin secretion and glycemia. **Taneera J**, Fadista J, Ahlqvist E, Atac D, Ottosson-Laakso E, Wollheim CB, Groop L. **Hum Mol Genet**. 2015 Apr 1;24(7):1945-55.

3. Downregulation of type II diabetes mellitus and maturity onset diabetes of young pathways in human pancreatic islets from hyperglycemic donors. **Taneera J**, Storm P, Groop L. **J Diabetes Res.** 2014;2014:237535.

4. Global genomic and transcriptomic analysis of human pancreatic islets reveals novel genes influencing glucose metabolism. Fadista J, Vikman P, Laakso EO, Mollet IG, Esguerra JL, **Taneera J**, Storm P, Osmark P, Ladenvall C, Prasad RB, Hansson KB, Finotello F, Uvebrant K, Ofori JK, Di Camillo B, Krus U, Cilio CM, Hansson O, Eliasson L, Rosengren AH, Renström E, Wollheim CB, Groop L. **Proc Natl Acad Sci U S A**. 2014 Sep 23;111(38):13924-9.

5. A central role for GRB10 in regulation of islet function in man. Prokopenko I, Poon W, Mägi R, Prasad B R, Salehi SA, Almgren P, Osmark P, Bouatia-Naji N, Wierup N, Fall T, Stančáková A, Barker A, Lagou V, Osmond C, Xie W, Lahti J, Jackson AU, Cheng YC, Liu J, O'Connell JR, Blomstedt PA, Fadista J, Alkayyali S, Dayeh T, Ahlqvist E, **Taneera J**, Lecoeur C, Kumar A, Hansson O, Hansson K, Voight BF, Kang HM, Levy-Marchal C, Groop L, Lyssenko V. **PLoS Genet.** 2014 Apr 3;10(4):e1004235.

6. Autoimmunity against INS-IGF2 protein expressed in human pancreatic islets. Kanatsuna N, **Taneera J**, Vaziri-Sani F, Wierup N, Larsson HE, Delli A, Skärstrand H, Balhuizen A, Bennet H, Steiner DF, Törn C, Fex M, Lernmark Å. **J Biol Chem.** 2013 Oct 4;288(40):29013-23.

7. Expression profiling of cell cycle genes in human pancreatic islets with and without type 2 diabetes. **Taneera J**, Fadista J, Ahlqvist E, Zhang M, Wierup N, Renström E, Groop L. **Mol Cell Endocrinol.** 2013 Aug 15;375(1-2):35-42.

8. Effects of common genetic variants associated with type 2 diabetes and glycemic traits on α- and β-cell function and insulin action in humans. Jonsson A, Ladenvall C, Ahluwalia TS, Kravic J, Krus U, **Taneera J**, Isomaa B, Tuomi T, Renström E, Groop L, Lyssenko V. **Diabetes.** 2013 Aug;62(8):2978-83.

9. Secreted frizzled-related protein 4 reduces insulin secretion and is overexpressed in type 2 diabetes. Mahdi T, Hänzelmann S, Salehi A, Muhammed SJ, Reinbothe TM, Tang Y, Axelsson AS, Zhou Y, Jing X, Almgren P, Krus U, **Taneera J**, Blom AM, Lyssenko V, Esguerra JL, Hansson O, Eliasson L, Derry J, Zhang E, Wollheim CB, Groop L, Renström E, Rosengren AH. **Cell Metab.** 2012 Nov 7;16(5):625-33.

10. Reduced insulin secretion correlates with decreased expression of exocytotic genes in pancreatic islets from patients with type 2 diabetes. Andersson SA, Olsson AH, Esguerra JL, Heimann E, Ladenvall C, Edlund A, Salehi A, **Taneera J**, Degerman E, Groop L, Ling C, Eliasson L. **Mol Cell Endocrinol**. 2012 Nov 25;364(1-2):36-45.

11. A systems genetics approach identifies genes and pathways for type 2 diabetes in human islets. **Taneera J**, Lang S, Sharma A, Fadista J, Zhou Y, Ahlqvist E, Jonsson A, Lyssenko V, Vikman P, Hansson O, Parikh H, Korsgren O, Soni A, Krus U, Zhang E, Jing XJ, Esguerra JL, Wollheim CB, Salehi A, Rosengren A, Renström E, Groop L. **Cell Metab.** 2012 Jul 3;16(1):122-34.

12. γ-Aminobutyric acid (GABA) signalling in human pancreatic islets is altered in type 2 diabetes. **Taneera J**, Jin Z, Jin Y, Muhammed SJ, Zhang E, Lang S, Salehi A, Korsgren O, Renström E, Groop L, Birnir B. **Diabetologia.**

2012 Jul;55(7):1985-94. doi: 10.1007/s00125-012-2548-7.

13. A common variant upstream of the PAX6 gene influences islet function in man. Ahlqvist E, Turrini F, Lang ST, **Taneera J**, Zhou Y, Almgren P, Hansson O, Isomaa B, Tuomi T, Eriksson K, Eriksson JG, Lyssenko V, Groop L. **Diabetologia**. 2012 Jan;55(1):94-104.

14. Genome-wide association identifies nine common variants associated with fasting proinsulin levels and provides new insights into the pathophysiology of type 2 diabetes. Strawbridge RJ, Dupuis J, Prokopenko I, Barker A, Ahlqvist E, Rybin D, Petrie JR, Travers ME, Bouatia-Naji N, Dimas AS, Nica A, Wheeler E, Chen H, Voight BF, **Taneera J**, Kanoni S, Peden JF, Turrini F, Gustafsson S, Zabena C, Almgren P, Barker DJ, Barnes D, Dennison EM, Eriksson JG, Eriksson P, Dedoussis GV, Lyssenko V, Meigs JB, Barroso I, Watanabe RM, Ingelsson E, Langenberg C, Hamsten A, Florez JC. **Diabetes.** 2011 Oct;60(10):2624-34.

15. Pleiotropic effects of GIP on islet function involve osteopontin.Lyssenko V, Eliasson L, Kotova O, Pilgaard K, Wierup N, Salehi A, Wendt A, Jonsson A, De Marinis YZ, Berglund LM, **Taneera J**, Balhuizen A, Hansson O, Osmark P, Dunér P, Brøns C, Stancáková A, Kuusisto J, Bugliani M, Saxena R, Ahlqvist E, Kieffer TJ, Tuomi T, Isomaa B, Melander O, Sonestedt E, Orho-Melander M, Nilsson P, Bonetti S, Bonadonna R, Miccoli R, Delprato S, Marchetti P, Madsbad S, Poulsen P, Vaag A, Laakso M, Gomez MF, Groop L. **Diabetes**. 2011 Sep;60(9):2424-33.

16. Decreased expression of genes involved in oxidative phosphorylation in human pancreatic islets from patients with type 2 diabetes. Olsson AH, Yang BT, Hall E, **Taneera J**, Salehi A, Nitert MD, Ling C. **Eur J Endocrinol**. 2011 Oct;165(4):589-95.

17. A common variant in TFB1M is associated with reduced insulin secretion and increased future risk of type 2 diabetes. Koeck T, Olsson AH, Nitert MD, Sharoyko VV, Ladenvall C, Kotova O, Reiling E, Rönn T, Parikh H,**Taneera J**, Eriksson JG, Metodiev MD, Larsson NG, Balhuizen A, Luthman H, Stančáková A, Kuusisto J, Laakso M, Poulsen P, Vaag A, Groop L, Lyssenko V, Mulder H, Ling C. **Cell Metab.** 2011 Jan 5;13(1):80-91.

18. Insulin promoter DNA methylation correlates negatively with insulin gene expression and positively with HbA(1c) levels in human pancreatic islets. Yang BT, Dayeh TA, Kirkpatrick CL, **Taneera J**, Kumar R, Groop L, Wollheim CB, Nitert MD, Ling C. **Diabetologia.** 2011 Feb;54(2):360-7.

19. Bone marrow transplantation stimulates pancreatic β-cell replication after tissue damage. **Taneera J,** Rosengren AH, Rymo S, Renström E. Islets. 2009 Jul-Aug;1(1):10-8.

20. Genetic variation in GIPR influences the glucose and insulin responses to an oral glucose challenge. Saxena R, Hivert MF, Langenberg C, Tanaka T, Pankow JS, Vollenweider P, Lyssenko V, Bouatia-Naji N, Dupuis J, Jackson AU, Kao WH, Li M, Glazer NL, Manning AK, Luan J, Stringham HM, Prokopenko I, Johnson T, Grarup N, Boesgaard TW, Lecoeur C, Shrader P, O'Connell J, Ingelsson E, Couper DJ, Rice K, Song K, Andreasen CH, Dina C, Köttgen A, Le Bacquer O, Pattou F, **Taneera J**, Steinthorsdottir V, Rybin D, Ardlie K, Sampson M, Qi L, van Hoek M, Weedon MN, Aulchenko YS, Voight BF, Grallert H, Balkau B, Bergman RN, Bielinski SJ, Bonnefond A, Bonnycastle LL, Borch-Johnsen K, Böttcher Y, Brunner E, Buchanan TA, Bumpstead SJ, Laakso M, Cooper C, Marmot M, Ferrucci L, Mooser V, Stumvoll M, Loos RJ, Altshuler D, Psaty BM, Rotter JI, Boerwinkle E, Hansen T, Pedersen O, Florez JC, McCarthy MI, Boehnke M, Barroso I, Sladek R, Froguel P, Meigs JB, Groop L, Wareham NJ, Watanabe RM. **Nat Genet.** 2010 Feb;42(2):142-8.

21. Enhancement of glucagon secretion in mouse and human pancreatic alpha cells by protein kinase C (PKC) involves intracellular trafficking of

PKCalpha and PKCdelta. De Marinis YZ, Zhang E, Amisten S, **Taneera J**, Renström E, Rorsman P, Eliasson L. **Diabetologia.** 2010 Apr;53(4):717-29.

22. Tight coupling between glucose and mitochondrial metabolism in clonal beta-cells is required for robust insulin secretion. Malmgren S, Nicholls DG, **Taneera J**, Bacos K, Koeck T, Tamaddon A, Wibom R, Groop L, Ling C, Mulder H, Sharoyko VV. **J Biol Chem.** 2009 Nov 20;284(47):32395-404.

23. A variant in the KCNQ1 gene predicts future type 2 diabetes and mediates impaired insulin secretion. Jonsson A, Isomaa B, Tuomi T, **Taneera J**, Salehi A, Nilsson P, Groop L, Lyssenko V. **Diabetes**. 2009 Oct;58(10):2409-13.

24. Long-term accumulation of microglia with proneurogenic phenotype concomitant with persistent neurogenesis in adult subventricular zone after stroke. Thored P, Heldmann U, Gomes-Leal W, Gisler R, Darsalia V, **Taneera J**, Nygren JM, Jacobsen SE, Ekdahl CT, Kokaia Z, Lindvall O. **Glia**. 2009 Jun;57(8):835-49..

25. Failure of transplanted bone marrow cells to adopt a pancreatic beta-cell fate. **Taneera J**, Rosengren A, Renstrom E, Nygren JM, Serup P, Rorsman P, Jacobsen SE. **Diabetes.** 2006 Feb;55(2):290-6.

26. Bone marrow-derived hematopoietic cells generate cardiomyocytes at a low frequency through cell fusion, but not transdifferentiation. Nygren JM, Jovinge S, Breitbach M, Säwén P, Röll W, Hescheler J, **Taneera J**, Fleischmann BK, Jacobsen SE. **Nat Med.** 2004 May;10(5):494-501.

27. Influence of activated charcoal, porcine gastric mucin and beta-cyclodextrin on the morphology and growth of intestinal and gastric Helicobacter spp. **Taneera J**, Moran AP, Hynes SO, Nilsson HO, Al-Soud Wa, Wadström T. **Microbiology**. 2002 Mar;148(Pt 3):677-84.

28. Infectious agents and primary biliary cirrhosis. Nilsson HO, **Taneera J**, Castedal M, Wadström T, Olsson R. **J Hepatol.** 2000 Aug;33(2):342-3.

29. Identification of Helicobacter pylori and other Helicobacter species by PCR, hybridization, and partial DNA sequencing in human liver samples from patients with primary sclerosing cholangitis or primary biliary cirrhosis. Nilsson HO, **Taneera J**, Castedal M, Glatz E, Olsson R, Wadström T. **J Clin Microbiol.** 2000 Mar;38(3):1072-6.