

Curriculum Vitae: Jalal Taneera



Jalal Taneera

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Short Bio

I received my Ph.D. in experimental endocrinology (2007) at Lund University – Sweden. The main focus of his Ph.D. was to study the ability of adult stem cells to trans-differentiate into pancreatic beta-cells as a cell therapy for diabetes. Later, I joined the department of diabetes and endocrinology at Lund University for post-doctoral training and as a coordinator for the Human Islets Facility at Lund University Diabetes Center (LUDC). In 2010, I started a new position at LUDC as a research scientist. My main focus is on the genetic profiling of human pancreatic islets and identifying novel genes that contribute to type 2 diabetes pathogenesis. I have published about 65 peer-reviewed papers in major journals such as Cell Metabolism, PNAS, Nature, and Human Molecular Genetics. In 2013 (Helsinki – Finland), I have been selected as the best young researcher on diabetes among all Scandinavian countries. Since Mars, 2016, I have moved to Sharjah university as an assistant professor at the medical college.

Currently, I am the group leader for Diabetes and Metabolic Syndrome Research group at Sharjah Institute for Medical Research. Our lab is the only in UAE and Gulf area that performs experimental diabetes research, including human pancreatic islets. Finally, my research was nationally and internationally highlighted in several scientific magazines such as Science Daily and Drug Target Review.

Education

- 2002-2007 Ph.D. in Experimental Endocrinology, Clinical Research Center, Lund University, Lund, Sweden.
- 1999-2001 M.Sc. in Biomedical Laboratories, Dept. of infectious diseases and Medical Microbiology, Lund University.
- 1992-1997 B.Sc. in Medical Laboratory Technology, Al-Isra University, Amman, Jordan

Academic Appointments

- 2022-present Associate Prof. at College of Medicine, Institute for medical and health sciences, University of Sharjah, United Arab of Emirates.
- 2016-2022 Assistant Prof. at the Medical College, Institute for medical and health sciences, University of Sharjah, United Arab of Emirates.
- 2011-2016 Assistant Prof. at Lund University Diabetes Center (LUDC), Dept. of Diabetes and Endocrinology
- 2007-2010 Coordinator of The Human Pancreatic Islets facility at Lund University (LUDC).
- 2002-2007 Ph.D. student at Clinical Research Center, Lund University

Google Scholar

https://scholar.google.com/citations?hl=en&user=zyspcugAAAAJ&view_op=list_works&sortby=pubdate

Citation 6900 H-index 28, i10-index 48

Scupo Scholar

<https://www.scopus.com/authid/detail.uri?authorId=6508112011>

Citations 5000, h-index 26

Teaching

- Selected Topics in Cell Biology (Master level)
- Selected topic of Molecular Biology (Master level)
- Animal Models in Molecular Biology and therapeutics (Master level)
- Principles of Anatomy and Physiology (Human Biology)
- Molecular Biology Lab I (Master level)
- Problem based learning instructor for year 1 and 2 medical students
- Interdisciplinary lectures in Genetics of Obesity (year 2 medical students).
- Interdisciplinary lectures in Genetics of Diabetes (year 3 medical students)
- Pathogenies of Diabetes (Master level).

Post-graduate Supervision

- PhD : Hayat Aljaibejei.
- PhD: Ejlal Omar.

- PhD: Zamzam Youssef Ismail Farhan
- PhD : Ranai Saeed.
- Master : Sarah Dhaiban
- Master : Amani Laham
- Master : Sham Abdrabua
- Master : Eman Ali
- Master : Linah Alereifi
- Master : Nujood Alkhadouri
- Master : Ola Ola Saed Al Shehadat
- Master : Reem A. A. Qannita
- Master : Huda Riyad Ahmad Alsukour
- Master : Amna Ali

Awards and Honors

2022	Best oral presentation award at 13th EDEC, Emirates diabetes and endocrine congress 2022Dubai-UAE.
2021	Best oral presentation award at 12th EDEC, Emirates diabetes and endocrine congress (4-6 March) 2021 Dubai-UAE.
2019	Medical Research Award 2020 (University of Sharjah).
2020	Oral presentation award at 11th EDEC, Emirates diabetes and endocrine congress (4-6 March) 2012 Dubai-UAE.
2009	Oral presentation award at 9th EDEC, Emirates diabetes and endocrine congress (7-9 March) 2019 Dubai-UAE.
2017	Awarded “2 nd Oral Presentation” at the 7th Emirates Diabetes and Endocrine Conference in Dubai.
2013	Best Young Investigator on diabetes research in Scandinavian countries, Helsinki, Finland.
2005	New investigator award, 34 th annual scientific meeting of the international society of experimental Hematology, Glasgow, UK.

Grants

2024	Development of Three-Dimensional In Vitro Cell Culture Models of INS-1 pancreatic β -Cells for pharmaceutical and functional studies	<i>Competitive grant, UoS, 100 K AED</i>
2024	Investigating the role of MAPK8IP1 in inflammasome and insulin secretion in pancreatic β -cells	<i>Competitive grant, UoS, 100 K AED</i>
2023	Role of COPN3 in muscle function and insulin sensitivity	<i>Targeted grant, University of Sharjah,</i>

2022	Assessing the regulation of sex-hormones (Estrogen and Testosterone) on the expression levels of SARS-CoV-2 host cell entry receptors	UoS, 200 K AED Competitive grant, UoS, 80 K AED
2020	Investigating the role of copine 1 and 3 in pancreatic beta-cell function	Competitive grant, UoS, 80 K AED
2020	The role of disturbed cellular exocytosis in susceptibility and mortality in Diabetic patients with COVID-19	COVID-19 Research Fund, UoS, 200 K AED
2019	Role of Vitamin A in pancreatic β -cell function.	Competitive grant, University of Sharjha, UoS, 80 K AED
2017	Role of estrogen and intracellular iron content in pancreatic β -cell function "a new potential player in insulin secretion"	Targeted grant, University of Sharjha, UoS, 200 K AED
2017	<i>Molecular and metabolic signature of iron store in pancreatic β-cells</i>	Aljaleela foundation 285 K AED
2017	All New Diabetics In Sharjah & Ajman [ANDISA]: An Epidemiological and Genetic Study Toward Individualized Medicine (phase II).	Aljaleela foundation 285 K AED
2017	Exploring molecular mechanisms of genes regulating β -cell function	Competitive grant, UoS, 200 K AED
2017	Role of GSK3 β in enhancing cell growth, proliferation & insulin production in fructose- & glucose- rich environment.	Boehringer Engelheim (BI) 1,5 K AED.
2017	Role of induction of Wnt/B-Catenin pathway in stressed B cells in enhancing survival, overall cell mass and insulin production.	Boehringer Engelheim (BI) 1,5 K AED.
20017	Exploring the role of FAM105A in pancreatic β -cell function.	Boehringer Engelheim (BI) 1,3 K AED.
2016	Exploring molecular mechanisms of genes regulating β -cell function	Seed grant, UoS, 40 K AED

Conferences

- DUPHAT 2023 (09-11 Jan 2023), Dubai, UAE (Oral presentation).
- 10th Emirati German Congress, 5-6th February 2024, Sharjah, UAE.

- 3rd UAE Anatomy & Cellular Biology Conference. 26-27 May 2024. Khalifa University. Abu Dhabi.
- The 13th Emirates diabetes and endocrinology congress (24-26 Feb 2023) Dubai, UAE. (Oral presentation)
- DUPHAT 2023 (10-12 Jan 2023), Dubai, UAE (Oral presentation).
- The 12th term award ceremony Sheik Hamdan Bin Rashid Award from medical sciences (23 Nov. 2023), Dubai, UAE.
- Dubai Stem cell Congress (27-28 Feb 2023), Dubai, UAE.
- AACC Middle East (5-6 Nov,) Dubai, UAE.
- International diabetes federation (IDF) annual congress, (5-8 Dec 2023) Lisbon, Portugal. (Poster presentation).
- German Emirates medical conference, Sharjah, 2022.
- The Precision Medicine Conference, Precision Med Expo 2023, Dubai United Arab Emirates. 27th May 2023.
- New Advances in Apheresis, Cell Therapy and Metabolism diseases. (5 June 2023), Dubai, UAE (oral presentation).
- Pre-Award: Research Funding Opportunities - Grants and Guidelines workshop. September 29th, 2022. University of Sharjah, United Arab Emirates
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- Mediclinic Middle East 5th Annual Research Conference 2022. 1st Feb 2022. Dubai.
- 12th Emirates Diabetes & Endocrine Congress (EDEC 2022) (24-26 Feb). Dubai.
- Middle East Rheumatology Conference. Nov 25-27 Nov 2021. Dubai.
- The 8th Emirati-German congress in Medicine (20-21 Nov), 2021, Sharjah. UAE
- 11th EDEC, Emirates diabetes and endocrine congress (4-6 March) 2019 Dubai-UAE.
- Update on cancer research workshop, (25 September) 2019, Sharjah, UAE.
- 9th EDEC, Emirates diabetes and endocrine congress (7-9 March) 2019 Dubai-UAE.
- The 7th Emirati-German congress in Medicine (18-21 Nov), 2018, Sharjah. UAE
- The 6th Emirati-German congress in Medicine (03-04 Nov), 2018, Sharjah. UAE
- 54th EASD, European association for study diabetes annual meeting (1-5 October) 2018, Berlin-Germany.
- 8th Pan Arab Human Genetics, Dubai, Jan 2017.
- 51th European Association to study Diabetes (EASD), Berlin, 2016.
- International Diabetes and Obesity Summit, Dubai 2016.
- 7th Emirates Diabetes and Endocrine Conference, Dubai 2017.
- 2nd Student based research week at University of Sharjah, 2017
- 4th middle East of Molecular Biology congress, Abu Dhabi, Nov 2017

- 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.

Publication

1. Unraveling the significance of PPP1R1A gene in pancreatic β -cell function: A study in INS-1 cells and human pancreatic islets. J Taneera, AK Mohammed, A Khalique, BM Mussa, N Sulaiman, ...Life Sciences 345, 122608. 2024.
2. Unlocking the Therapeutic Potential of BCL-2 Associated Protein Family: Exploring BCL-2 Inhibitors in Cancer Therapy. B El Dakkak, J Taneera, W El-Huneidi, E Abu-Gharbieh, R Hamoudi, ...Biomolecules & Therapeutics 32 (3), 267-280. 2024
3. Investigating the Impact of IL6 on Insulin Secretion: Evidence from INS-1 Cells, Human Pancreatic Islets, and Serum Analysis. J Taneera, A Khalique, AK Mohammed, BM Mussa, N Sulaiman, ...MDPI-Cells 13 (8), 685. 2024
4. Exploring the global landscape of self-medication among students: Trends, risks, and recommendations for safe and responsible practices. Y Bustanji, J Taneera, A Bargooth, A Abuhelwa, A Issa, W El-Huneidi, ...Pharmacy Practice 22 (1), 1-14
5. Preservation of β -Cells as a Therapeutic Strategy for Diabetes. J Taneera, MM Saber-Ayad. Hormone and Metabolic Research. 2024.
6. Fat mass and obesity-associated (FTO) gene is essential for insulin secretion and β -cell function: In vitro studies using INS-1 cells and human pancreatic islets. J Taneera, A Khalique, S Abdrabh, AK Mohammed, A Bouzid, ...Life Sciences 339, 122421
7. Targeting Hypoxia-Inducible Factor-1 (HIF-1) in Cancer: Emerging Therapeutic Strategies and Pathway Regulation. RA Qannita, AI Alalami, AA Harb, SM Aleidi, J Taneera, E Abu-Gharbieh, ...et al. Pharmaceuticals 17 (2), 195

8. Potential of CDC25 phosphatases in cancer research and treatment: key to precision medicine. I Dakilah, A Harb, E Abu-Gharbieh, W El-Huneidi, J Taneera, R Hamoudi, ...Frontiers in Pharmacology 15, 1324001
9. Diabetes mellitus progression in β -thalassaemia major patients: The impact of iron overload. EO Mahgoub, R Qannita, A Alalami, O Al Shehadat, R Al Mahmoud, A Dib, ... Taneera J. Advances in Biomedical and Health Sciences 3 (1), 5-12
10. Exploring the Potential of Rosemary Derived Compounds (Rosmarinic and Carnosic Acids) as Cancer Therapeutics: Current Knowledge and Future Perspectives. F Sirajudeen, LJB Malhab, Y Bustanji, et al. Biomolecules & Therapeutics 32 (1), 38
11. Molecular complexity of mammary glands development: a review of lactogenic differentiation in epithelial cells. MK Jena, FB Khan, SA Ali, A Abdullah, AK Sharma, V Yadav, S Kancharla, Artificial Cells, Nanomedicine, and Biotechnology 51 (1), 491-508. Accepted 2023.
12. Rosemarinic acid protects β -cell from STZ-induced cell damage via modulating NF- κ B pathway. W El-Huneidi, S Anjum, AK Mohammed, SB Eshaq, S Abdrabh, Y Bustanji, . Accepted 2023. Heliyon
13. Disrupting of family with sequence similarity 105, member A (Fam105a) deteriorates pancreatic β -cell physiology and insulin secretion in INS-1 cells. J Taneera, A Khalique, A Salima, AK Mohammed, AS Sawan, H Aneis, Molecular and Cellular Endocrinology, 111987. 2023.
14. Potential anticancer properties of calotropis procera: An investigation on breast and colon cancer cells. LJB Malhab, K Bajbouj, NG Shehab, SM Elayoty, J Sinoj, S Adra, et al. Heliyon 9 (6). 2023
15. Gold Nanoparticles and Breast Cancer: A bibliometric Analysis of the Current State of Research and Future Directions. Y Bustanji, J Taneera, MH Semreen, E Abu-Gharbieh, W El-Huneidi, et al. OpenNano, Accepted 2023.
16. Expression silencing of Mitogen-Activated Protein Kinase 8 Interacting Protein-1 conferred its role in pancreatic β -cell physiology and Insulin Secretion. R Saeed, AK Mohammed, SE Saleh, KM Aboshanab, MM Aboulwafa, Jalal Taneera. Metabolites 13 (2), 307
17. Dual Role of Mitogen-Activated Protein Kinase 8 Interacting Protein-1 in Inflammasome and Pancreatic β -Cell Function. R Saeed, AK Mohammed, SE Saleh, MM Aboulwafa, KM Aboshanab, Jalal Taneera. International Journal of Molecular Sciences 24 (5), 4990
18. GDF15 plays a critical role in insulin secretion in INS-1 cells and human pancreatic islets. Experimental Biology and Medicine. Accepted. 2022.
19. The role of autophagy in colorectal cancer: Impact on pathogenesis and implications in therapy. E Mahgoub, J Taneera, N Sulaiman, M Saber-Ayad. Frontiers in Medicine. 2022.
20. Carnosic Acid Protects INS-1 β -Cells against Streptozotocin-Induced Damage by Inhibiting Apoptosis and Improving Insulin Secretion and Glucose Uptake. W El-Huneidi, S Anjum, MA Saleh, Y Bustanji, E Abu-Gharbieh, J Taneera. Molecules 27 (7), 2022.
21. Reduced Retinoic Acid Receptor Beta (Rar β) Affects Pancreatic β -Cell Physiology Anila Khalique, Abdul Khader Mohammed, Nujood Mohammed Al-Khadran, Mutaz Al Gharaibeh, Eman Abu-Gharbieh, Waseem El-Huneidi, Nabil Sulaiman, Jalal Taneera Biology 11 (7), 1072. 2022.
22. Identifying Immunological and Clinical Predictors of COVID-19 Severity and Sequelae by Mathematical Modeling. NM Elemam, S Hammoudeh, L Salameh, B Mahboub, H Alsafar, Jalal TaneeraFrontiers in immunology 13
23. The Role of Estrogen Signaling in Cellular Iron Metabolism in Pancreatic β Cells

- J Taneera, A Ali, M Hamad. *Pancreas* 51 (2), 121-127
24. Profiling Levels of Serum microRNAs and Soluble ACE2 in COVID-19 Patients NM Elemam, H Hasswan, H Aljaibeji, NS Sharif-Askari, R Halwani, Jalal Taneera, Nabil Sulaiman. *Life* 12 (4), 575
 25. Metformin enhances LDL-cholesterol uptake by suppressing the expression of the pro-protein convertase subtilisin/kexin type 9 (PCSK9) in liver cells. A Ali, H Unnikannan, J Shafarin, K Bajbouj, J Taneera, JS Muhammad, et al. 2022. *Endocrine*, 1-15.
 26. EXOC6 (Exocyst Complex Component 6) Is Associated with the Risk of Type 2 Diabetes and Pancreatic β -Cell Dysfunction. Nabil Sulaiman, Mahmood Yaseen Hachim, Anila Khalique, Abdul Khader Mohammed, Saba Al Heialy, Jalal Taneera. 2022. *Biology* 11 (3), 388
 27. Heme Oxygenase-1 (HMOX-1) and inhibitor of differentiation proteins (ID1, ID3) are key response mechanisms against iron-overload in pancreatic β -cells. M Hamad, AK Mohammed, MY Hachim, D. Mukhopadhy, Anila Khalique, A. Laham, S. Dhaiban, K. Bajbouj, J. Taneera. 2021. *Molecular and Cellular Endocrinology* 538, 111462
 28. Copine 3 “CPNE3” is a novel regulator for insulin secretion and glucose uptake in pancreatic β -cells. W El-Huneidi, S Anjum, AK Mohammed, H Unnikannan, R Saeed, Khuloud Bajbouj, Eman Abu-Gharbieh, Jalal Taneera. 2021. *Scientific reports* 11 (1), 1-9
 29. The Coffee Diterpene, Kahweol, Ameliorates Pancreatic β -Cell Function in Streptozotocin (STZ)-Treated Rat INS-1 Cells through NF- κ B and p-AKT/Bcl-2 Pathways. Waseem El-Huneidi, Shabana Anjum, Khuloud Bajbouj, Eman Abu-Gharbieh anJalal Taneera. Accepted *Molecular MDPI*.
 30. Expression of SARS-CoV-2 receptor “ACE2” in human pancreatic β cells: to be or
 31. not to be! Waseem El-Huneid, Mawieh Hamad and Jalal Taneera. *Islets* 2021 accepted. <https://doi.org/10.1080/19382014.2021.1954458>
 32. Carnosic Acid Induces Apoptosis and Inhibits Akt/mTOR Signaling in Human Gastric Cancer Cell Lines. W El-Huneidi, K Bajbouj, JS Muhammad, A Vinod, J Shafarin, G Khoder, *Pharmaceuticals* 14 (3), 230
 33. Vitamin A levels are decreased but not influenced by glucose-or lipid-lowering medications in subjects with type 2 diabetes. J Taneera, S Awadallah, AK Mohammed, H Unnikannan, N Sulaiman. *Saudi Journal of Biological Sciences*. 2020, in Press.
 34. Combined intake of glucose-and lipid-lowering medications further elevates plasma levels of PCSK9 in type 2 diabetes patients. Awadallah S, Taneera J, Mohammed AK, Unnikannan H, Sulaiman N. *Diabetes Metab Syndr*. 2020 Oct 30;14(6):2087-2092. doi: 10.1016/j.dsx.2020.10.028. Online ahead of print. PMID: 33142230.
 35. Let7b-5p is Upregulated in the Serum of Emirati Patients with Type 2 Diabetes and Regulates Insulin Secretion in INS-1 Cells. Aljaibeji H, Elemam NM, Mohammed AK, Hasswan H, Thahyabat MA, Alkhayyal N, Sulaiman N, Taneera J. *Exp Clin Endocrinol Diabetes*. 2020 Oct 9. doi: 10.1055/a-1261-5282. Online ahead of print. PMID: 33036033.
 36. Expression Profile of SARS-CoV-2 Host Receptors in Human Pancreatic Islets Revealed Upregulation of ACE2 in Diabetic Donors. Taneera J, El-Huneidi W, Hamad M, Mohammed AK, Elaraby E, Hachim MY. *Biology (Basel)*. 2020 Aug 7;9(8):215. doi: 10.3390/biology9080215. PMID: 32784802.
 37. Genetic Variants of the PLCXD3 Gene Are Associated with Risk of Metabolic Syndrome in the Emirati Population. Aljaibeji H, Mohammed AK, Alkayyali S,

- Hachim MY, Hasswan H, El-Huneidi W, Taneera J, Sulaiman N. *Genes (Basel)*. 2020 Jun 18;11(6):665. doi: 10.3390/genes11060665. PMID: 32570874.
38. An Integrative Phenotype-Genotype Approach Using Phenotypic Characteristics from the UAE National Diabetes Study Identifies HSD17B12 as a Candidate Gene for Obesity and Type 2 Diabetes. Hachim MY, Aljaibeji H, Hachim RAHIY, Elemam NM, Mohammed AK, Salehi A, Taneera J, Sulaiman N. *Genes (Basel)*. 2020 Apr 23;11(4):E461. doi: 10.3390/genes11040461.
 39. Estrogen Signaling Induces Mitochondrial Dysfunction-Associated Autophagy and Senescence in Breast Cancer Cells. Bajbouj K, Shafarin J, Taneera J, Hamad M. *Biology (Basel)*. 2020 Apr 1;9(4):E68. doi: 10.3390/biology9040068. PMID: 32244623 Free article.
 40. Prediabetes and diabetes prevalence and risk factors comparison between ethnic groups in the United Arab Emirates. Hamoudi R, Saheb Sharif-Askari N, Saheb Sharif-Askari F, Abusnana S, Aljaibeji H, Taneera J, Sulaiman N. *Sci Rep*. 2019 Nov 25;9(1):17437. doi: 10.1038/s41598-019-53505-7.
 41. Potential role of hypothalamic microRNAs in regulation of FOS and FTO expression in response to hypoglycemia. Mussa BM, Taneera J, Mohammed AK, Srivastava A, Mukhopadhyay D, Sulaiman N. *J Physiol Sci*. 2019 Nov;69(6):981-991. doi: 10.1007/s12576-019-00718-0. Epub 2019 Nov 14.
 42. Reduced expression of PLCXD3 associates with disruption of glucose sensing and insulin signalling in pancreatic β -cells. Hayat Saad Aljaibeji, Abdul Khader Mohammed, Sarah Dhaiban, Noha Mousaad Elemam, Nabil Sulaiman, Albert Salehi, Jalal Taneera. 2019. *Journal. Frontiers in Endocrinology*. Volume 10 Pages. 735.
 43. Reduced Expression of Ch11 gene Impairs Insulin Secretion by Down-Regulating the Expression of Key Molecules of β -cell Function. Taneera J, Dhaiban S, Hachim M, Mohammed AK, Mukhopadhyay D, Bajbouj K, Hamoudi R, Salehi A, Hamad M. *Exp Clin Endocrinol Diabetes*. 2019 Oct 15. doi: 10.1055/a-1014-2544. [Epub ahead of print]
 44. Orphan G-protein coupled receptor 183 (GPR183) potentiates insulin secretion and prevents glucotoxicity-induced β -cell dysfunction. Taneera J, Mohammed I, Mohammed AK, Hachim M, Dhaiban S, Malek A, Dunér P, Elemam NM, Sulaiman N, Hamad M, Salehi A. *Mol Cell Endocrinol*. 2019 Sep 21;499:110592. doi: 10.1016/j.mce.2019.110592. [Epub ahead of print]
 45. GNAS gene is an important regulator of insulin secretory capacity in pancreatic β -cells. Taneera J, Dhaiban S, Mohammed AK, Mukhopadhyay D, Aljaibeji H, Sulaiman N, Fadista J, Salehi A. *Gene*. 2019 Oct 5;715:144028. doi: 10.1016/j.gene.2019.144028. Epub 2019 Jul 30.
 46. Dimethylxalylglycine (DMOG) and the Caspase Inhibitor "Ac-LETD-CHO" Protect Neuronal ND7/23 Cells of Glucotoxicity. Mukhopadhyay D, Hammami M, Khalouf A, Shaikh YA, Mohammed AK, Hamad M, Salehi A, Taneera J. *Exp Clin Endocrinol Diabetes*. 2019 Jun 11. doi: 10.1055/a-0919-4489.
 47. The Case for an Estrogen-iron Axis in Health and Disease. Hamad M, Bajbouj K, Taneera J. *Exp Clin Endocrinol Diabetes*. 2019 Apr 12. doi: 10.1055/a-0885-1677.
 48. RORB and RORC associate with human islet dysfunction and inhibit insulin secretion in INS-1 cells. Taneera J, Mohammed AK, Dhaiban S, Hamad M, Prasad RB, Sulaiman N, Salehi A. *Islets*. 2019;11(1):10-20. doi: 10.1080/19382014.2019.1566684. Epub 2019 Feb 14. PMID: 30762474
 49. Silencing of the FTO gene inhibits insulin secretion: An in vitro study using GRINCH cells. Taneera J, Prasad RB, Dhaiban S, Mohammed AK, Haataja L, Arvan P, Hamad M, Groop L, Wollheim CB. *Mol Cell Endocrinol*. 2018 Sep 5;472:10-17. doi: 10.1016/j.mce.2018.06.003. Epub 2018 Jun 8.

50. Maturity-Onset Diabetes of the Young: An Overview with Focus on the Middle East. Taneera J, Mussa B, Saber-Ayad M, Dhaiban S, Aljaijeji H, Sulaiman N. *Curr Mol Med*. 2017;17(8):549-562.
51. Pott's disease post-treatment with intravehicular Mycobacterium bovis BCG. "Galicia Clin". 2016:77.1
52. 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.
53. 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.
54. 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.
55. 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, BouatiaNaji 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.
56. 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.
57. 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.
58. 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.
59. 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.
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Courses

- Advanced Certificate in Health Professions Education 2022
- Problem Based Learning, 2017
- Bioinformatics, sequence and structure, 2000.
- Immuno-Histochemistry training- NOVO NORDISK. Hegedorn institute, Copenhagen, Denmark.
- Cell Transfer and Micromanipulator, University of Tokyo, JAPAN.
- BioBusiness 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.
-

Language

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

International recognition of my research

Science News
Key mechanism in insulin release by cholesterol metabolites found
 October 31, 2019
 Latest Research
 Insulin which is released by pancreatic beta cells is the main regulator of blood sugar. Previous and current studies by a research group at Lund University in Sweden have identified around 100 different receptors on the surface of the beta cells, with a diverse functional impact on the beta cells. Lund researchers at Lund University in collaboration with researchers at University of Glasgow, United Arab Emirates have discovered that one of these receptors plays a key role in the release of insulin.

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Drug Target Dev
Key mechanism behind insulin release discovered by researchers
 Researchers have identified a specific receptor that is critical for the release of insulin and provides a target for diabetes that is diabetes and obesity.

Researchers explore role of cholesterol towards insulin release
 Researchers have investigated how cholesterol can play a role in the release of insulin by the pancreas' beta cells.

NEWS
Scientists discover unexpected benefits of cholesterol
 November 5, 2019 7:22 AM

Cholesterol is required to activate the receptor responsible for the production of insulin, as an international group of scientists from Lund University, Sweden and the University of Glasgow, UK, found out. The results of their research were published in the journal Molecular and Cellular Endocrinology.

According to experts, insulin is the main regulator of glucose in the blood, and the GPR132 receptor located on the surface of pancreatic beta cells plays a key role in its release.

The receptor is activated when it binds to one of the metabolites of cholesterol produced by the liver. According to research leader Albert Salati, if scientists learn how to activate this receptor, then drugs may appear that will stimulate the production of insulin in people with low cholesterol.

According to the expert, this discovery may help block increased appetite in the near future. The fact is that with a high level of cholesterol, a person also produces the specific metabolite, which results in increased secretion of insulin.

This leads to hunger and weight gain. The researchers' goal is to find a way to block the effect of the receptor to the metabolite.