Curriculum Vitae: Jalal Taneera

Gender	Male
Date of birth	September 28, 1973
Nationality	Sweden
Address/office	University of Sharjah, College of Medicine, Sharjah Institute for Medical Research, Box 27272, Sharjah, UAE. Tel: 0097165057743 Mobile: 00971566922002 Email: Jtaneera@sharjah.ac.ae: Tjalal@hotmail.com
Address/home	University of Sharjah, Alzahrawi complex, Villa 8. Box 27272, Sharjah, UAE. Or: Osten Undens gata 190, 22684, Lund, Sweden

Education

2002-2007	Ph.D. in Experimental Endocrinology, Clinical Research Center, Lund university, Lund, Sweden.
1998-2000	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

2016-present	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	PhD student at Clinical Research Center, Lund University

Googel Scholar

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Teaching

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

Supervision

Master level:

1. Xhang Mi (2013-Lund University).
2. David Atac (2015-Lund University).

3. Sarah Dhaiban (2017-University of Sharjah).
4. Amina Laham (2018- University of Sharjah).
5. Nujood Alkhdran (2020-University of Sharjah).
6. Linah Alrefaei (2020-University of Sharjah).

PhD level: Hayat Aljaibeji (2017-2020- University of Sharjah)

Awards and Honors

2018	Oral presentation award at 9th EDEC, Emirates diabetes and endocrine congress (7-9 March) 2019 Dubai-UAE.
2017	Honored by the Islamic University in Gaza during the second scientific research week for my contributions to the diabetes research at IUG.
2017	Awarded "2nd place in the Student 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, 34th annual scientific meeting of the international society of experimental Hematology, Glasgow, UK.

Grants

2020	Role of Vitamin A in pancreatic beta cell function	*Competitive grant, UoS, 80 K AED*
2020	Role of estrogen and intracellular iron content in pancreatic β-cell function "a new potential player in insulin secretion"	*COVID-19 grant, UoS, 200 K, UoS. Co-PI*
2020	Cellular exocytosis gene (EXOC6): a missing link for the susceptibility and mortality of COVID-19 in diabetic patients"	*COVID-19 grant, UoS, 200 K, UoS. Co-PI*
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	*Molecular and metabolic signature of iron store in pancreatic β-cells*	*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, 80 K AED*
2017	Role of GSK3β 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

- 8 th Diabetes and Ramadan international Alliance conference (24-25 January). 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. Expression Profile of SARS-CoV-2 Host Receptors in Human Pancreatic Islets Revealed Upregulation of ACE2 in Diabetic Donors. Jalal Taneera ,Waseem El-Huneidi, Mawieh Hamad, Abdul Khader Mohammed, Esraa Elaraby 1 and Mahmood Yaseen Hachim. Biology. https://doi.org/10.3390/biology9080215
2. 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 Free PMC article.
3. 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, Hamoudi RA, Hachim IY, Elemam NM, Mohammed AK, Salehi A, Taneera J, Sulaiman N. Genes (Basel). 2020 Apr 23;11(4):461. doi: 10.3390/genes11040461. PMID: 32340285 Free PMC article.
4. 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):68. doi: 10.3390/biology9040068. PMID: 32244623 Free PMC article.
5. 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.
6. 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.
7. 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.

8. Reduced Expression of Chl1 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]
9. 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]
10. 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.
11. Dimethyloxalylglycine (DMOG) and the Caspase Inhibitor "Ac-LETD-CHO" Protect Neuronal ND7/23 Cells of Gluocotoxicity. 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.
12. 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.
13. 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
14. 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.
15. Maturity-Onset Diabetes of the Young: An Overview with Focus on the Middle East. Taneera J, Mussa B, Saber-Ayad M, Dhaiban S, Aljaibeji H, Sulaiman N. Curr Mol Med. 2017;17(8):549-562.
16. Pott's disease post-treatment with intravehicular Mycobacterium bovis BCG. "Galicia Clin". 2016:77.1
17. 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.

18. 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.
19. 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.
20. 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.
21. Autoimmunity against INS-IGF2 protein expressed in human pancreaticislets. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.

27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. 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.

35. 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, Boehnke M, Barroso I, Sladek R, Froguel P, Meigs JB, Groop L, WarehamNJ, Watanabe RM. Nat Genet. 2010 Feb;42(2):142-8.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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.
41. 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.
42. 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.
43. Infectious agents and primary biliary cirrhosis. Nilsson HO, Taneera J, Castedal M, Wadström T, Olsson R. J Hepatol. 2000 Aug;33(2):342-3.
44. 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.

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 Transfer 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.

Language

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