



Curriculum Vitae

Personal information Tilo Moede

Work experience

1. Employer: Läkemedelsverket (Medical Products Agency)
 - Start date: 092021
 - End date:
 - Position: Pharmaceutical Assessor
 - Activities: Assessment of pharmaceutical documentation for biological medicinal product development and marketing authorization
 - Country: Sweden
2. Employer: Karolinska Institutet
 - Start date: 012010
 - End date: 082021
 - Position: Researcher and Senior Lab Manager
 - Activities: Preclinical endocrinology and diabetes research employing microscopy and molecular biological techniques to study cell and islet physiology during Diabetes development in animal models and in vitro
 - Country: Sweden
3. Employer: Karolinska Institutet
 - Start date: 042002
 - End date: 122009
 - Position: Postdoctoral Researcher
 - Activities: Preclinical endocrinology and diabetes research using and developing molecular biological and microscopic tools to study beta_cell and islet physiology and pathophysiology in vitro
 - Country: Sweden
4. Employer: Karolinska Institutet
 - Start date: 091995
 - End date: 032002
 - Position: PhD Student
 - Activities: Preclinical endocrinology and diabetes research developing molecular biological and microscopic tools to study beta_cell biology in vitro
 - Country: Sweden
5. Employer: Institute for Radiobiology, Federal Armed Forces Medical Academy
 - Start date: 031999
 - End date: 121999
 - Position: Research Associate (compulsory military service)
 - Activities: Preclinical studies on the effects of ionizing radiation on cell biology
 - Country: Germany

Education and training

1. Subject: Karolinska Institutet
 - Start date: 091995
 - End date: 032002
 - Qualification: PhD
 - Organisation: Medical Cell Biology Molecular Biology Diabetology Endocrinology
 - Country: Sweden
2. Subject: Universität Greifswald
 - Start date: 091989
 - End date: 081995
 - Qualification: Diplombiopharmakologie (equivalent to MSc)
 - Organisation: This degree program included lectures, seminars and practical courses in various sub_disciplines of Biology, Pharmacology and Medicine.
 - Country: Germany

Additional information

Publications

Pancreatic β Cells Inhibit Glucagon Secretion from α Cells: An In Vitro Demonstration of α - β Cell Interaction. Gu W, Anker CCB, Christiansen CB, Moede T, Berggren PO, Hermansen K, Gregersen S, Jeppesen PB. *Nutrients*. 2021 Jun 30;13(7):2281. Ectopic Leptin Production by Intraocular Pancreatic Islet Organoids Ameliorates the Metabolic Phenotype of ob/ob Mice. Leibiger B, Moede T, Valladolid_Acebes I, Paschen M, Visa M, Leibiger IB, Berggren PO. *Metabolites*. 2021 Jun 14;11(6):387. Tissue-specific expression of insulin receptor isoforms in obesity/type 2 diabetes mouse models. Moruzzi N, Lazzeri-Barcelo F, Valladolid_Acebes I, Moede T, Paschen M, Leibiger B, Berggren PO, Leibiger IB. *J Cell Mol Med*. 2021 May;25(10):4800-4813. Human Islet Microtissues as an In Vitro and an In Vivo Model System for Diabetes. Mir_Coll J, Moede T, Paschen M, Neelakandhan A, Valladolid_Acebes I, Leibiger B, Biernath A, Åmmälä C, Leibiger IB, Yesildag B, Berggren PO. *Int J Mol Sci*. 2021 Feb 11;22(4):1813. Glucokinase intrinsically regulates glucose sensing and glucagon secretion in pancreatic alpha cells. Moede T, Leibiger B, Vaca Sanchez P, Daré E, Köhler M, Muhandiramlage TP, Leibiger IB, Berggren PO. *Sci Rep*. 2020 Nov 19;10(1):20145. Alpha cell regulation of beta cell function. Moede T, Leibiger IB, Berggren PO. *Diabetologia*. 2020 Oct;63(10):2064-2075. In vivo Ca²⁺ dynamics in single pancreatic β cells. Jacob S, Köhler M, Tröster P, Visa M, García-Prieto CF, Alanentalo T, Moede T, Leibiger B, Leibiger IB, Berggren PO. *FASEB J*. 2020 Jan;34(1):945-959. Diet-induced β cell insulin resistance results in reversible loss of functional β cell mass. Paschen M, Moede T, Valladolid_Acebes I, Leibiger B, Moruzzi N, Jacob S, García-Prieto CF, Brismar K, Leibiger IB, Berggren PO. *FASEB J*.

2019 Jan;33(1):204_218. Non_invasive cell type selective in vivo monitoring of insulin resistance dynamics. Paschen M, Moede T, Leibiger B, Jacob S, Bryzgalova G, Leibiger IB, Berggren PO. *Sci Rep*. 2016 Feb 22;6:21448.

PI3K_C2a Knockdown Results in Rerouting of Insulin Signaling and Pancreatic Beta Cell Proliferation. Leibiger B, Moede T, Paschen M, Yunn NO, Lim JH, Ryu SH, Pereira T, Berggren PO, Leibiger IB. *Cell Rep*. 2015 Oct 6;13(1):15_22. Apolipoprotein CIII links islet insulin resistance to β _cell failure in diabetes. Ávall K, Ali Y, Leibiger IB, Leibiger B, Moede T, Paschen M, Dicker A, Daré E, Köhler M, Ilegems E, Abdulreda MH, Graham M, Crooke RM, Tay VS, Refai E, Nilsson SK, Jacob S, Selander L, Berggren PO, Juntti_Berggren L. *Proc Natl Acad Sci U S A*. 2015 May 19;112(20):E2611_9. Ciliary dysfunction impairs beta_cell insulin secretion and promotes development of type 2 diabetes in rodents. Gerdes JM, Christou_Savina S, Xiong Y, Moede T, Moruzzi N, Karlsson_Edlund P, Leibiger B, Leibiger IB, Östenson CG, Beales PL, Berggren PO. *Nat Commun*. 2014 Nov 6;5:5308. Adipsin is an adipokine that improves β cell function in diabetes. Lo JC, Ljubicic S, Leibiger B, Kern M, Leibiger IB, Moede T, Kelly ME, Chatterjee Bhowmick D, Murano I, Cohen P, Banks AS, Khandekar MJ, Dietrich A, Flier JS, Cinti S, Blüher M, Danial NN, Berggren PO, Spiegelman BM. *Cell*. 2014 Jul 3;158(1):41_53. Glucagon regulates its own synthesis by autocrine signaling. Leibiger B, Moede T, Muhandiramlage TP, Kaiser D, Vaca Sanchez P, Leibiger IB, Berggren PO. *Proc Natl Acad Sci U S A*. 2012 Dec 18;109(51):20925_30. Dynamamin_mediated Nephtrin phosphorylation regulates glucose_stimulated insulin release in pancreatic beta cells. Jeon J, Leibiger I, Moede T, Walter B, Faul C, Maiguel D, Villarreal R, Guzman J, Berggren PO, Mundel P, Ricordi C, Merscher_Gomez S, Fornoni A. *J Biol Chem*. 2012 Aug 17;287(34):28932_42. One_step purification of functional human and rat pancreatic alpha cells. Köhler M, Daré E, Ali MY, Rajasekaran SS, Moede T, Leibiger B, Leibiger IB, Tibell A, Juntti_Berggren L, Berggren PO. *Integr Biol (Camb)*. 2012 Feb;4(2):209_19. Insulin_feedback via PI3K_C2alpha activated PKBalpha/Akt1 is required for glucose_stimulated insulin secretion. Leibiger B, Moede T, Uhles S, Barker CJ, Creveaux M, Domin J, Berggren PO, Leibiger IB. *FASEB J*. 2010 Jun;24(6):1824_37. Noninvasive in vivo imaging of pancreatic islet cell biology. Speier S, Nyqvist D, Cabrera O, Yu J, Molano RD, Pileggi A, Moede T, Köhler M, Wilbertz J, Leibiger B, Ricordi C, Leibiger IB, Caicedo A, Berggren PO. *Nat Med*. 2008 May;14(5):574_8. Selective gene activation by spatial segregation of insulin receptor B signaling. Uhles S, Moede T, Leibiger B, Berggren PO, Leibiger IB. *FASEB J*. 2007 May;21(7):1609_21. Proinsulin C_peptide and insulin: Limited pattern similarities of interest in inter_peptide interactions but no C_peptide effect on insulin and IGF_1 receptor signaling. Henriksson M, Johansson J, Moede T, Leibiger I, Shafiqat J, Berggren PO, Jörnvall H. *Cell Mol Life Sci*. 2006 Dec;63(24):3055_60. Removal of Ca2+ channel beta3 subunit enhances Ca2+ oscillation frequency and insulin exocytosis. Berggren PO, Yang SN, Murakami M, Efanov AM, Uhles S, Köhler M, Moede T, Fernström A, Appelskog IB, Aspinwall CA, Zaitsev SV, Larsson O, de Vargas LM, Fecher_Troost C, Weissgerber P, Ludwig A, Leibiger B, Juntti_Berggren L, Barker CJ, Gromada J, Freichel M, Leibiger IB, Flockerzi V. *Cell*. 2004 Oct 15;119(2):273_84. Isoform_specific insulin receptor signaling involves different plasma membrane domains. Uhles S, Moede T, Leibiger B, Berggren PO, Leibiger IB. *J Cell Biol*. 2003 Dec 22;163(6):1327_37. Ionizing radiation modulates cell surface integrin expression and adhesion of COLO_320 cells to collagen and fibronectin in vitro. Meineke V, Gilbertz KP, Schilperoort K, Cordes N, Sendler A, Moede T, van Beuningen D. *Strahlenther Onkol*. 2002 Dec;178(12):709_14. Protein kinase inhibitors modulate time_dependent effects of UV and ionizing irradiation on ICAM_1 expression on human hepatoma cells. Meineke V, Moede T, Gilbertz KP, Mayerhofer A, Ring J, Köhn FM, Van Beuningen D. *Int J Radiat Biol*. 2002 Jul;78(7):577_83. Short_term regulation of insulin gene transcription. Leibiger B, Moede T, Uhles S, Berggren PO, Leibiger IB. *Biochem Soc Trans*. 2002 Apr;30(2):312_7. Selective insulin signaling through A and B insulin receptors regulates transcription of insulin and glucokinase genes in pancreatic beta cells. Leibiger B, Leibiger IB, Moede T, Kemper S, Kulkarni RN, Kahn CR, de Vargas LM, Berggren PO. *Mol Cell*. 2001 Mar;7(3):559_70. Online monitoring of stimulus_induced gene expression in pancreatic beta_cells. Moede T, Leibiger B, Berggren PO, Leibiger IB. *Diabetes*. 2001 Feb;50 Suppl 1:S15_9. Identification of a nuclear localization signal, RRMKWKK, in the homeodomain transcription factor PDX_1. Moede T, Leibiger B, Pour HG, Berggren P, Leibiger IB. *FEBS Lett*. 1999 Nov 19;461(3):229_34. Syntaxin 1 interacts with the L(D) subtype of voltage_gated Ca(2+) channels in pancreatic beta cells. Yang SN, Larsson O, Bränström R, Bertorello AM, Leibiger B, Leibiger IB, Moede T, Köhler M, Meister B, Berggren PO. *Proc Natl Acad Sci U S A*. 1999 Aug 31;96(18):10164_9. Cysteine string protein (CSP) is an insulin secretory granule_associated protein regulating beta_cell exocytosis. Brown H, Larsson O, Bränström R, Yang SN, Leibiger B, Leibiger I, Fried G, Moede T, Deeney JT, Brown GR, Jacobsson G, Rhodes CJ, Braun JE, Scheller RH, Corkey BE, Berggren PO, Meister B. *EMBO J*. 1998 Sep 1;17(17):5048_58. Short_term regulation of insulin gene transcription by glucose. Leibiger B, Moede T, Schwarz T, Brown GR, Köhler M, Leibiger IB, Berggren PO. *Proc Natl Acad Sci U S A*. 1998 Aug 4;95(16):9307_12. Exocytosis of insulin promotes insulin gene transcription via the insulin receptor/PI_3 kinase/p70 s6 kinase and CaM kinase pathways. Leibiger IB, Leibiger B, Moede T, Berggren PO. *Mol Cell*. 1998 May;1(6):933_8.

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