

Curriculum Vitae

Personal Information

Full Name Sandra Haider
Family status married, 1 child
University Address Department of Obstetrics and Gynecology, Reproductive Biology Unit, Medical University of Vienna
Wahringer Guertel 18-20, Floor 5Q, 1090 Vienna, Austria
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Nationality Austria
Date of birth 04.06.1974
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Scientific Experience

since 1997 holding position of Biomedical Analyst,
Department of Obstetrics and Fetal-Maternal Medicine,
Reproductive Biology Unit, Medical University of Vienna
02-05 2000 *placental villous explants as an in vitro model system*
Manchester (UK), St. Mary's Hospital, John Aplin Group

Education

2010-2015 N094 PhD studies, thematic program: Molecular Signal Transduction: "The role of Notch receptor 1 during human early placental development"
PhD degree with distinction "PhD"
Department of Obstetrics and Gynecology
Reproductive Biology Unit, Medical University of Vienna
2008-2010 Master studies "Notch Signalling in the Human Placenta" –
Master degree with distinction "Mag. rer. nat"
2004-2010 Study of Molecular Biology, Department of Life Sciences,
University of Vienna
1997 Bachelor of Science in Health Studies (BSc) with distinction
1994-1997 Study of Biomedical Science, University of Applied Sciences,
Vienna
1993-1994 Study of Biology, Department of Life Sciences, University of
Vienna
1993 Matura (A-Level)
1988-1993 Secondary College for Economic Professions in Baden (Lower
Austria)
1984-1988 Grammar school in Mödling (Lower Austria)
1980- 1984 Primary school in Mödling (Lower Austria)

Conference Proceedings

Invited Talks

- Mar 16-19, 2016 63th SRI Meeting (Society of Reproductive Investigation)
“Notch1 Functions as a Molecular Switch between Invasive Differentiation and Cell Fusion of Human Trophoblast Progenitors”
Montreal, Canada
- Sept 14-17, 2011 14th IFPA Meeting (International Federation of Placenta Association)
“Notch signaling plays a role in human placental development: regulation of cell column proliferation and trophoblast invasion”
Geilo, Norway
- Jul 9-10, 2012 CTR Annual Trophoblast meeting (Center for Trophoblast Research)
“Notch Signaling controls column proliferation, trophoblast invasion and extravillous trophoblast differentiation”
Cambridge, England

Poster presentations

- Sept 9-12, 2014 IFPA/EPG Meeting
“Notch Receptor 1 controls trophoblast survival in first trimester cytotrophoblasts”
Paris, France
- Jun 13-14, 2012 8th YSA PhD Symposium
“Notch Signaling plays a Role in Human Placental Development: Regulation of Cell Column Proliferation and Trophoblast Invasion”
Vienna, Austria
- Sept 14-17, 2011 14th IFPA Meeting
“Notch Signaling plays a Role in Human Placental Development: Regulation of Cell Column Proliferation and Trophoblast Invasion”
Geilo, Norway
- Jun 15-16, 2011 7th YSA PhD Symposium
“The Role of Notch Signaling in Trophoblast Differentiation of Human First Trimester Placentae”
Vienna, Austria
- Sept 3-7, 2005 IFPA/EPG Meeting
“TNF α -mediated induction of Pai-1 restricts invasion of HTR-8/SVneo trophoblast cells”
Glasgow, Scotland

Sept 23-28 , 2003 IFPA/EPG Meeting
“TNF α inhibits trophoblast migration through induction of plasminogen activator inhibitor-1”
Mainz, Germany

Oct 6-10, 2002 IFPA/EPG Meeting
“Tumour necrosis factor α inhibits migration/invasion of extravillous trophoblasts in first trimester villous explant cultures”
Melbourne, Australia

Participations

Mar 18-21, 2009 SGI Meeting
Glasgow, Scotland

Sept 19-23, 2001 IFPA/EPG Meeting
Sorrento, Italy

Sept 26-29, 1999 IFPA/EPG Meeting
Schladming, Austria

Awards

März 16-19, 2016 63. SRI Meeting (Society of reproductive Investigation)
“Giorgio Pardi Young Scientist Award”

Jun 13-14, 2012 Best poster presentation, YSA Meeting, 2012

Non-Scientific interests

sports (especially running and mountain biking)
painting
horse riding

Publications

Fock V, Plessl K, Fuchs R, Dekan S, Milla SK, **Haider S**, Fiala C, Knöfler M, Pollheimer J (2015) Trophoblast subtype-specific EGFR/ERBB4 expression correlates with cell cycle progression and hyperplasia in complete hydatidiform moles. *Hum Reprod* **30(4)**: 789-99

Plessl K, **Haider S**, Fiala C, Pollheimer J, Knöfler M (2015) Expression pattern and function of Notch2 in different subtypes of first trimester cytotrophoblast. *Placenta* **36(4)**: 365-71

Velicky P, **Haider S**, Otti GR, Fiala C, Pollheimer J, Knöfler M (2014) Notch-dependent RBPJ κ inhibits proliferation of human cytotrophoblasts and their differentiation into extravillous trophoblasts. *Mol Hum Reprod* **20(8)**: 756-66

Biadasiewicz K, Fock V, Dekan S, Proestling K, Velicky P, **Haider S**, Knöfler M, Fröhlich C, Pollheimer J (2014) Extravillous trophoblast-associated ADAM12 exerts pro-invasive properties, including induction of integrin beta 1-mediated cellular spreading. *Biol Reprod* **90(5)**: 101

Meinhardt G, **Haider S**, Haslinger P, Proestling K, Fiala C, Pollheimer J, Knöfler M (2014) Wnt-dependent T-cell factor-4 controls human extravillous trophoblast motility. *Endocrinology* **155(5)**: 1908-20

Haider S, Meinhardt G, Velicky P, Otti GR, Whitley G, Fiala C, Pollheimer J, Knöfler M (2014) Notch signaling plays a critical role in motility and differentiation of human first-trimester cytotrophoblasts. *Endocrinology* **155(1)**: 263-74

Haslinger P, **Haider S**, Sonderegger S, Otten JV, Pollheimer J, Whitley G, Knöfler M (2013) AKT isoforms 1 and 3 regulate basal and epidermal growth factor-stimulated SGHPL-5 trophoblast cell migration in humans. *Biol Reprod.* **7;88**: 54

Prutsch N, Fock V, Haslinger P, **Haider S**, Fiala C, Pollheimer J, Knöfler M (2012) The role of interleukin-1 β in human trophoblast motility. *Placenta* **33**: 696-703

Pollheimer J, Haslinger P, Fock V, Prast J, Saleh L, Biadasiewicz K, Jetne-Edelmann R, Haraldsen G, **Haider S**, Hirtenlehner-Ferber K, Knöfler M (2011) Endostatin suppresses IGF-II-mediated signaling and invasion of human extravillous trophoblasts. *Endocrinology* **152**: 4431-42

Biadasiewicz K, Sonderegger S, Haslinger P, **Haider S**, Saleh L, Fiala C, Pollheimer J, Knöfler M (2011) Transcription factor AP-2 α promotes EGF-dependent invasion of human trophoblast. *Endocrinology*. **152**: 1458-69

Tauber S, Jais A, Jeitler M, **Haider S**, Husa J, Lindroos J, Knöfler M, Mayerhofer M, Pehamberger H, Wagner O, Bilban M (2010) Transcriptome analysis of human cancer reveals a functional role of heme oxygenase-1 in tumor cell adhesion. *Mol Cancer* **28;9**: 200

Szlauer R, Ellinger I, **Haider S**, Saleh L, Busch BL, Knöfler M, Fuchs R (2009) Functional expression of the human neonatal Fc-receptor, hFcRn, in isolated cultured human syncytiotrophoblasts. *Placenta*. **30**: 507-15

Husslein H, **Haider S**, Meinhardt G, Prast J, Sonderegger S, Knöfler M (2009) Expression, regulation and functional characterization of matrix metalloproteinase-3 of human trophoblast *Placenta* **30(3)**: 284-91

Haider S, Knöfler M (2009) Human tumour necrosis factor: physiological and pathological roles in placenta and endometrium. *Placenta* **30(2)**: 111-23

Bilban M, Haslinger P, Prast J, Klinglmüller F, Woelfel T, **Haider S**, Sachs A, Otterbein LE, Desoye G, Hiden U, Wagner O, Knöfler M (2009) Identification of novel trophoblast invasion-related genes: heme oxygenase-1 controls motility via peroxisome proliferator-activated receptor gamma. *Endocrinology* **150(2)**: 1000-13

Hudelist G, Wuelfing P, Czerwenka K, Knöfler M, **Haider S**, Fink-Retter A, Gschwantler-Kaulich D, Pfeiler G, Kubista E, Singer CF (2009) Beta-hCG/LH receptor (b-HCG/LH-R) expression is increased in invasive versus preinvasive breast cancer: implications for breast carcinogenesis? *J Cancer Res Clin Oncol.* **135(2)**: 191-5

Leisser C, Saleh L, **Haider S**, Husslein H, Sonderegger S, Knöfler M (2006) Tumour necrosis factor-alpha impairs chorionic gonadotrophin beta-subunit expression and cell fusion of human villous cytotrophoblast. *Mol Hum Reprod.* **12(10)**: 601-9

Pollheimer J, Loregger T, Sonderegger S, Saleh L, **Bauer S**, Bilban M, Czerwenka K, Husslein P, Knöfler M (2006) Activation of the canonical wingless/T-cell factor signaling pathway promotes invasive differentiation of human trophoblast. *Am J Pathol.* **168(4)**: 1134-47

Huber AV, Saleh L, **Bauer S**, Husslein P, Knöfler M (2006) TNFalpha-mediated induction of PAI-1 restricts invasion of HTR-8/SVneo trophoblast cells. *Placenta* **27(2-3)**: 127-36

Pollheimer J, **Bauer S**, Huber A, Husslein P, Aplin JD, Knöfler M (2004) Expression pattern of collagen XVIII and its cleavage product, the angiogenesis inhibitor endostatin, at the fetal-maternal interface. *Placenta* **25(10)**: 770-9

Bilban M, Ghaffari-Tabrizi N, Hintermann E, **Bauer S**, Molzer S, Zoratti C, Malli R, Sharabi A, Hiden U, Graier W, Knöfler M, Andreae F, Wagner O, Quaranta V, Desoye G (2004) Kisspeptin-10, a KiSS-1/metastatin-derived decapeptide, is a physiological invasion inhibitor of primary human trophoblasts. *J Cell Sci* **15;117(Pt 8)**: 1319-28

Bauer S, Pollheimer J, Hartmann J, Husslein P, Aplin JD, Knöfler M (2004) Tumor necrosis factor-alpha inhibits trophoblast migration through elevation of plasminogen activator inhibitor-1 in first-trimester villous explant cultures. *J Clin Endocrinol Metab* **89(2)**: 812-22

Knöfler M, Saleh L, **Bauer S**, Galos B, Rotheneder H, Husslein P, Helmer H (2004) Transcriptional regulation of the human chorionic gonadotropin beta gene during villous trophoblast differentiation. *Endocrinology* **145(4)**: 1685-94

Jirecek S, Tringler B, Knöfler M, **Bauer S**, Topcuoglu A, Egarter C (2003) Detection of corticotropin-releasing hormone receptors R1 and R2 (CRH-R1, CRH-R2) using fluorescence immunohistochemistry in the myometrium of women delivering preterm or at term. *Wien Klin Wochenschr* **115(19-20)**: 724-7

Jirecek S, Tringler B, Knöfler M, **Bauer S**, Topcuoglu A, Egarter C (2002) Redistribution of corticotropin-releasing hormone receptor R2 using fluorescence immunohistochemistry in fetal membranes of women delivering preterm or at term. *Wien Klin Wochenschr* **114(23-24)**: 1008-12

Knöfler M, Meinhardt G, **Bauer S**, Loregger T, Vasicek R, Bloor DJ, Kimber SJ, Husslein P (2002) Human Hand1 basic helix-loop-helix (bHLH) protein: extra-embryonic expression pattern, interaction partners and identification of its transcriptional repressor domains. *Biochem J* **361(Pt 3)**: 641-51

Griesinger G, Saleh L, **Bauer S**, Husslein P, Knöfler M (2001) Production of pro- and anti-inflammatory cytokines of human placental trophoblasts in response to pathogenic bacteria. *J Soc Gynecol Investig* **8(6)**: 334-40

Knöfler M, Saleh L, **Bauer S**, Vasicek R, Griesinger G, Strohmmer H, Helmer H, Husslein P (2000) Promoter elements and transcription factors involved in differentiation-dependent

human chorionic gonadotrophin-alpha messenger ribonucleic acid expression of term villous trophoblasts. *Endocrinology* **141(10)**: 3737-48

Knöfler M, Mösl B, **Bauer S**, Griesinger G, Husslein P (2000) TNF-alpha/TNFR1 in primary and immortalized first trimester cytotrophoblasts. *Placenta* **21(5-6)**: 525-35