

# Curriculum vitae

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## CAREER SUMMARY

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After an Msc degree in Natural Sciences at the University of Vienna, I obtained a PhD in 2006 under the mentorship of Professor Martin Knöfler. My doctoral thesis was on regulatory mechanisms controlling extravillous trophoblast differentiation. From 2006 until 2009, I underwent a postdoctoral training at the University of Oslo and received a Postdoc fellowship from the Norwegian Cancer Society on the project: High endothelial venule-like differentiation of endothelial cells. In 2009, I re-joined the research group of Martin Knöfler as a Senior Postdoc. In 2011 I was appointed Research Associate to establish independence and begin my own program of research in reproductive biology. After receiving an Associate Professor position in April 2015 I currently serve as an independent research group leader of the Maternal-Fetal Immunology Group at the Medical University of Vienna.

## ACADEMIC CAREER

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05/2015 – present Associate Professor, Dept. of Obstetrics and Gynaecology, Medical University of Vienna  
04/2012 – 04/2015 Assistant Professor, Dept. of Obstetrics and Gynaecology, Medical University of Vienna  
04/2011 – 03/2012 Research Associate, Dept. of Obstetrics and Gynaecology, Medical University of Vienna  
11/2009 – 03/2011 Senior Postdoc, Dept. of Obstetrics and Gynaecology, Medical University of Vienna  
09/2006 – 09/2009 Postdoc, Dept. of Pathology, Oslo University Hospital and University of Oslo  
04/2002 – 06/2006 PhD studies, Dept. of Obstetrics and Gynaecology, Medical University of Vienna  
Supervisor: Assoc. Prof. Martin Knöfler, PhD degree with distinction  
02/2001 – 04/2002 Master studies, Surgical Research Laboratories, Medical University of Vienna  
Supervisor: Assoc. Prof. Rudolf Öhler, Master degree with distinction  
09/1995 – 04/2002 Study of Nutritional Science, University of Vienna

## INTERNATIONAL EDUCATION PROGRAMS

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08/1999 – 07/2000 Universidad Autónoma de Madrid, Institute of Biology, Spain

## GRANT SUPPORT

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2020 – 2024 Austrian Science Fond (FWF), Project leader, Project number: P33485  
2018 – 2022 Austrian National Bank (ONB), Project leader, Project number: 17613  
2015 – 2017 Herzfelder'sche Familienstiftung, Project leader, Project number: 00685  
2013 – 2016 Austrian Science Fond (FWF), Project leader, Project number: P25187  
2011 – 2014 Austrian National Bank (ONB), Project leader, Project number: 14147  
2010 – 2013 Austrian National Bank (ONB), Co-Project leader, Project number: 13955

## METRICS

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63 research papers (10 as first and 13 as corresponding author) and 2 book chapters;  
Scopus: Sum of times cited: 2.846, h-index: 29  
ORCID ID: 0000-0001-8440-5221  
SCOPUS Author ID: 6507825565

## SELECTED AWARDS

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2006	New Investigator Award, 4 <sup>th</sup> ESRI Meeting, Graz, Austria
2005	The Y.W. Loke New Investigator Travel Award, 11 <sup>th</sup> IFPA Meeting, Glasgow, UK
2004	The Y.W. Loke New Investigator Travel Award, 10 <sup>th</sup> IFPA Meeting, Asilomar, USA
2003	Eastman Kodak Travel Award, 9 <sup>th</sup> IFPA Meeting, Mainz, Germany

## MEMBERSHIPS

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Since 2018	Editorial Board Member of Placenta
2012 – 2017	European Placenta Group (EPG) Planning Committee

## EXPERT ACTIVITIES

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I am ad hoc reviewer of applications for research funding by DFG (DE), Dr. Hadwen Trust (UK), NSERC Discovery Grant (CA), Swiss3rcc (CH), and Wellbeing of Women (UK). Furthermore, I am reviewing manuscripts for scientific journals including AM J PATHOL, BIOL REPROD, Endocrinology, HUM REPROD, MOL HUM REPROD, NAT COMMUN, Placenta, STEM CELL REP.

## SELECTED CONFERENCE PRESENTATIONS

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07/2018	CTR Meeting, Cambridge, England Invited speaker: "The EMT phenotype of human invasive trophoblasts."
03/2016	63 <sup>rd</sup> SRI Meeting, Montreal, Canada Oral presentation: "Polyploidization in human invasive trophoblasts."
04/2015	6 <sup>th</sup> SLIMP/LASRI Meeting, Mar del Plata, Argentina Invited speaker: "ErbB receptor function during EVT differentiation."
06/2014	CTR Meeting, Cambridge, England Oral presentation: "ERBB receptor expression and ligand-induced activity during extravillous trophoblast differentiation."
09/2013	19 <sup>th</sup> IFPA Meeting, Whistler, Canada Invited speaker: "ADAM12: a novel trophoblast invasion-related metalloproteinase."

## BOOK CHAPTERS

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2016	Schneider H, Husslein P, Schneider K Die Geburtshilfe; In: Präimplantation, Implantation und Plazentation (5 <sup>th</sup> Edition, 2016); Springer Verlag. ISBN: 978-3-662-45063-5
2015	Duttaroy AK, Basak S Human Placental Trophoblasts: Impacts on Maternal Nutrition; In: Molecular Regulation of Human Extravillous Trophoblast Development (November 3, 2015); pp 21-35. CRC Press, Taylor & Francis Group. ISBN: 9781482254280

## SUPERVISION/MENTORING

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12/2020 – present	Höbler AL, PhD studies, Medical University of Vienna
10/2019 – present	Lackner AI, PhD Studies, Medical University of Vienna
11/2016 – present	Vondra S, PhD studies, Medical University of Vienna
06/2011 – 05/2016	Velicky P, PhD studies, Medical University of Vienna
03/2012 – 01/2016	Plessl K, PhD studies, Medical University of Vienna
11/2010 – 02/2015	Fock V, PhD studies, Medical University of Vienna
12/2013 – 04/2014	Milla S, Master studies, Medical University of Vienna
06/2008 – 04/2013	Biadasiewicz K, PhD studies, University of Vienna
04/2010 – 09/2010	Prutsch N, Master course, University of Applied Sciences

## SELECTED MOST IMPORTANT PUBLICATIONS

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63 research papers (10 as first and 13 as corresponding author) and 2 book chapters;

Scopus: Sum of times cited: 2.840, h-index: 29

ORCID iD: <https://orcid.org/0000-0001-8440-5221>

SCOPUS Author ID: 6507825565

1. Vondra S, Kunihs V, Eberhart T, Eigner K, Bauer R, Haslinger P, Haider S, Windsperger K, Klambauer G, Schütz B, Mikula M, Zhu X, Urban AE, Hannibal RL, Baker J, Knöfler M, Stangl H, **Pollheimer J\***, Röhrl C. Metabolism of cholesterol and progesterone is differentially regulated in primary trophoblastic subtypes and might be disturbed in recurrent miscarriages. *J Lipid Res.* 2019. doi: 10.1194/jlr.P093427. \*co-corresponding author
2. Haider S, Meinhardt G, Saleh L, Kunihs V, Gamperl M, Kaindl U, Ellinger A, Burkard TR, Fiala C, **Pollheimer J**, Mendjan S, Latos PA, Knöfler M. Self-Renewing Trophoblast Organoids Recapitulate the Developmental Program of the Early Human Placenta. *Stem Cell Reports.* 2018. doi: 10.1016/j.stemcr.2018.07.004.
3. Velicky P, Meinhardt G, Plessl K, Vondra S, Weiss T, Haslinger P, Lendl T, Aumayr K, Mairhofer M, Zhu X, Schütz B, Hannibal RL, Lindau R, Weil B, Ernerudh J, Neesen J, Egger G, Mikula M, Röhrl C, Urban AE, Baker J, Knöfler M, **Pollheimer J**. Genome amplification and cellular senescence are hallmarks of human placenta development. *PLoS Genet.* 2018. doi: 10.1371/journal.pgen.1007698.
4. Velicky P, Windsperger K, Petroczi K, Pils S, Reiter B, Weiss T, Vondra S, Ristl R, Dekan S, Fiala C, Cantonwine DE, McElrath TF, Jilma B, Knöfler M, Boehm T, **Pollheimer J**. Pregnancy-associated diamine oxidase originates from extravillous trophoblasts and is decreased in early-onset preeclampsia. *Sci Rep.* 2018. doi: 10.1038/s41598-018-24652-0.
5. Windsperger K, Dekan S, Pils S, Golletz C, Kunihs V, Fiala C, Kristiansen G, Knöfler M. Extravillous trophoblast invasion of venous as well as lymphatic vessels is altered in idiopathic, recurrent, spontaneous abortions. *Hum Reprod.* 2017. doi: 10.1093/humrep/dex058.
6. Fock V, Plessl K, Draxler P, Otti GR, Fiala C, Knöfler M, **Pollheimer J**. Neuregulin-1-mediated ErbB2-ErbB3 signalling protects human trophoblasts against apoptosis to preserve differentiation. *J Cell Sci.* 2015. doi: 10.1242/jcs.176933.
7. Fock V, Plessl K, Fuchs R, Dekan S, Milla SK, Haider S, Fiala C, Knöfler M, **Pollheimer J**. Trophoblast subtype-specific EGFR/ERBB4 expression correlates with cell cycle progression and hyperplasia in complete hydatidiform moles. *Hum Reprod.* 2015. doi: 10.1093/humrep/dev027.
8. Biadasiewicz K, Fock V, Dekan S, Proestling K, Velicky P, Haider S, Knöfler M, Fröhlich C, **Pollheimer J**. Extravillous trophoblast-associated ADAM12 exerts pro-invasive properties, including induction of integrin beta 1-mediated cellular spreading. *Biol Reprod.* 2014. doi: 10.1095/biolreprod.113.115279.
9. Fock V, Mairhofer M, Otti GR, Hiden U, Spittler A, Zeisler H, Fiala C, Knöfler M, **Pollheimer J**. Macrophage-derived IL-33 is a critical factor for placental growth. *J Immunol.* 2013. doi: 10.4049/jimmunol.1300490.
10. **Pollheimer J**, Bodin J, Sundnes O, Edelmann RJ, Skånland SS, Sponheim J, Brox MJ, Sundlisaeter E, Loos T, Vatn M, Kasprzycka M, Wang J, Küchler AM, Taskén K, Haraldsen G, Hol J. Interleukin-33 drives a proinflammatory endothelial activation that selectively targets nonquiescent cells. *Arterioscler Thromb Vasc Biol.* 2013. doi: 10.1161/ATVBAHA.112.253427.