



List of Publications (November 2022)

Peer reviewed original scientific papers

1. [B. Fuenzalida, S. Kallol, J. Zaugg, M. Mueller, H.D. Mistry, J. Gutierrez, A. Leiva, and C. Albrecht.](#) Primary human trophoblasts mimic the preeclampsia phenotype after acute hypoxia–reoxygenation insult. *Cells*, 2022, 11:1898. <https://doi.org/10.3390/cells11121898>.
2. [V. Vachalova, R. Karahoda, M. Ottaviani, K. Anandam, C. Abad, C. Albrecht, and F. Staud.](#) Functional reorganization of monoamine transport systems during villous trophoblast differentiation: Evidence for distinct differences between primary human trophoblasts and BeWo cells. *Reprod Biol Endocrinol*, 2022, 20:112. <https://doi.org/10.1186/s12958-022-00981-8>.
3. [R. Karahoda, J. Zaugg, B. Fuenzalida, S. Kallol, R. Moser-Haessig, F. Staud, and C. Albrecht.](#) Trophoblast differentiation affects crucial nutritive functions of placental membrane transporters. *Front Cell Dev Biol*, 2022; 10:820286. doi: 10.3389/fcell.2022.820286. eCollection 2022.
4. [H.D. Mistry, R. Klossner, S. Kallol, M. Lüthi, E. Ontsouka, R. Moser, H. Schneider, L.O. Kurlak, M.G. Mohaupt, and C. Albrecht.](#) Effects of aldosterone on the human placenta: insights from placental perfusion studies. *Placenta*, 2022, 123:32-40. doi: 10.1016/j.placenta.2022.03.129.
5. [H. Schneider*, C. Albrecht*, L. Aengenheister, M.S. Ahmed, M. Broekhuizen, T. Buerki-Thurnherr, J. Danser, S. Gil, S. Hansson, R. Greupink, R. Lewis, U. Markert, L. Mathiesen, N. Powles-Glover, C. Wadsack, and P. Brownbill.](#) Ex vivo dual perfusion of an isolated human placenta cotyledon: towards protocol standardization and improved inter-centre comparability. *Placenta*, 2022, 126:83-89. doi: <https://doi.org/10.1016/j.placenta.2022.05.003>. *Joint first authorship
6. [B.P. Lüscher, C. Albrecht, B. Stieger, D.V. Surbek, and M.U. Baumann.](#) Glucose transporter 9 (GLUT9) plays an important role in the placental uric acid transport system. *Cells*, 2022, 11: 633. <https://doi.org/10.3390/cells11040633> 2022
7. [S. Shahnawaz, U. Shah Nawaz, J. Zaugg, G. Hussain, N. Malik, M.Z.H. Dogar, S.A. Malik and C. Albrecht.](#) Dysregulated autophagy leads to oxidative stress and aberrant expression of ABC transporters in women with early miscarriage. *Antioxidants*, 2021, 10:1742. doi: <https://doi.org/10.3390/antiox10111742>.
8. [J. Zaugg, F. Ziegler, J.-M. Nuoffer, R. Moser-Hässig and C. Albrecht.](#) Counter-directed leucine gradient promotes amino acid transfer across the human placenta. *J Nutr Biochem*, 2021, 96: 108760. doi: <https://doi.org/10.1016/j.jnutbio.2021.108760>
9. [R. Karahoda, S. Kallol, M. Grössl, E. Ontsouka, P. Anderle, C. Flück, F. Staud and C. Albrecht.](#) Revisiting steroidogenic pathways in the human placenta and primary human trophoblast cells. *Int J Mol Sci*, 2021, 22, 1704. <https://doi.org/10.3390/ijms22041704>.
10. [B. Fuenzalida, S. Kallol, M. Lüthi, C. Albrecht* and A. Leiva*.](#) The polarized localization of lipoprotein receptors and cholesterol transporters in the syncytiotrophoblast of the placenta is reproducible in a monolayer of primary human trophoblasts. *Placenta*, 2021, 105:50–60. doi: [10.1016/j.placenta.2021.01.019](https://doi.org/10.1016/j.placenta.2021.01.019). * Joint corresponding authorship

11. [J. Zaugg, H. Melhem, X. Huang, M. Wegner, M. Baumann, D. Surbek, M. Körner and C. Albrecht](#). Gestational diabetes mellitus affects placental iron homeostasis: mechanism and clinical implications. *The FASEB J*, 2020, 34:7311–7329. doi: 10.1096/fj.201903054R.
12. [J. Zaugg, X. Huang, F. Ziegler, M. Rubin, J. Graff, J. Müller, R. Moser-Hässig, T. Powell, J. Gertsch, K-H. Altmann and C. Albrecht](#). Small molecule inhibitors provide insights into the relevance of LAT1 and LAT2 in materno-foetal amino acid transport. *J Cell Mol Med*, 2020, *in press*, doi: 10.1111/jcmm.15840.
13. [R. Karahoda, C. Abad, H. Horackova, P. Kastner, J. Zaugg, L. Cerveny, R. Kucera, C. Albrecht and F. Staud](#). Dynamics of tryptophan metabolic pathways in human placenta and placental-derived cells; effect of gestation age and trophoblast differentiation. *Front Cell Dev Biol*, 2020, *in press*, doi: 10.3389/fcell.2020.574034.
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19. [S. Kallol, R. Moser-Haessig, C.E. Ontsouka and C. Albrecht](#). Comparative expression patterns of selected membrane transporters in differentiated BeWo and human primary trophoblast cells. *Placenta* 2018, 72-73:48-52.
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Reviews

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3. J.M. Jeckelmann, J. Zaugg, V. Morozova, J. Müller, S. Kantipudi, M. Schroeder, J. Graff, **C. Albrecht***, K.H. Altmann,* , J. Gertsch,* and D. Fotiadis. Structure, function and pharmacology of SLC7 family members and homologues., *In press Chimia*, 2022, 76:1-8. doi:10.2533/chimia.2022.1
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4. [M. Schroeder, G. Badini, A. Sferruzzi-Perrini, and C. Albrecht](#). The consequences of assisted reproduction technologies on the offspring health throughout life: a placental contribution. *Front Cell Dev Biol*, 2022, 10:906240. doi: 10.3389/fcell.2022.906240.
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