



List of Publications (April 2020)

**Peer reviewed original scientific papers**

1. J. Zaugg, H. Melhem, X. Huang, M. Wegner, M. Baumann, D. Surbek, M. Körner, **C. Albrecht**. Gestational diabetes mellitus affects placental iron homeostasis: mechanism and clinical implications. In press *FASEB Journal* (Mar 2020)
2. [B. Fuenzalida, C. Cantin, S. Kallol, L. Carvajal, V. Pastén, S. Contreras-Duarte, C. Albrecht, J. Gutierrez, and A. Leiva](#). Cholesterol uptake and efflux are impaired in human trophoblast cells from pregnancies with maternal supraphysiological hypercholesterolemia. *Sci Rep* 2020, 10:5264. doi: 10.1038/s41598-020-61629-4.
3. [H. Melhem, S. Kallol, X. Huang, M. Lüthi, C.E. Ontsouka, A. Keogh, D. Stroka, W. Thormann, H. Schneider, and C. Albrecht](#). Placental secretion of apolipoprotein A1 and E: anti-atherogenic impact of the placenta? *Sci Rep*, 2019, 9: 6225. doi: 10.1038/s41598-019-42522-1.
4. [M. Schroeder, M. Jakovcevski, T. Polacheck, Y. Drori, A. Luoni, S. Röh, J. Zaugg, S. Ben-Dor, C. Albrecht and A. Chen](#). Placental miR-340 mediates adolescent vulnerability to activity based anorexia in mice. *Nat Commun*, 2018, doi: 10.1038/s41467-018-03836-2.
5. [B. P. Lüscher, D. Surbek, B. Cléménçon, X. Huang, C. Albrecht, C. Marini, M.A. Hediger, M.U. Baumann](#). Different pharmacological properties of GLUT9a and GLUT9b: Potential implications in preeclampsia. *Cell Physiol Biochem* 2019, 53:508-517.
6. [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.
7. [S. Kallol, X. Huang, S. Müller, C.E. Ontsouka and C. Albrecht](#). Novel insights into concepts and directionality of maternal-fetal cholesterol transfer across the human placenta. *Int J Mol Sci* 2018, 19:2334. doi:10.3390/ijms19082334
8. [X. Huang, P. Anderle, L. Hostettler, M.U. Baumann, D.V. Surbek, E.C. Ontsouka, and C. Albrecht](#). Identification of placental nutrient transporters associated with intrauterine growth restriction and pre-eclampsia. *BMC Genomics* 2018, 19:173. doi.org/10.1186/s12864-018-4518-z.
9. [L. Tamò, Y. Hibaoui, S. Kallol, M.P. Alves, C. Albrecht, K. Hostettler, A. Feki, J-S. Rougier, H. Abriel, Lars Knudsen, A. Gazdhar, and Thomas Geiser](#). Generation of an alveolar epithelial type II cell line from induced pluripotent stem cells. *Am J Physiol Lung Cell Mol Physiol*. 2018, Sep 13. doi: 10.1152/ajplung.00357.2017.
10. [C.E. Ontsouka, X. Huang, E. Aliyev, and C. Albrecht](#). In Vitro Characterization and Endocrine Regulation of Cholesterol and Phospholipid Transport in the Mammary Gland. *Mol Cell Endocrinol*, 2017, 439:35-45.
11. [B. P. Lüscher, C. Marini, M. Joerger-Messerli, X. Huang, M.A. Hediger, C. Albrecht, Daniel V. Surbek M.U. Baumann](#). Placental glucose transporter (GLUT)-1 is down-regulated in preeclampsia. *Placenta*, 2017, 55:94-99.

12. S. Chen, X. Huang, S. Decurtins, **C. Albrecht**, and Shi-Xia Liu. A Benzodifuran-based Amphiphilic and Fluorogenic Ligand for in Vitro Monitoring Cellular Zn(II) Uptake. *Polyhedron*, 134:287-294.
13. [X. Huang, M. Lüthi, E.C. Ontsouka, S. Kallol, M.U. Baumann, D.V. Surbek and C. Albrecht.](#) Establishment of a confluent monolayer model with human primary trophoblast cells: novel insights into placental glucose transport. *Mol Hum Reprod* 2016, 22:442-456.
14. [N. Eisele, C. Albrecht, H. Mistry, B. Dick, M. Baumann, D. Surbek, G. Currie, C. Delles, M.G. Mohaupt, G. Escher and C. Gennari-Moser.](#) Placental expression of the angiogenic placental growth factor is stimulated by both aldosterone and simulated starvation. *Placenta* 2016, 40:18-24.
15. [E.C. Ontsouka, J.S. Bertschi, X. Huang, M. Lüthi, S. Müller and C. Albrecht.](#) Can widely used cell type markers predict the suitability of immortalized or primary mammary epithelial cell models? *Biol Res* 2016, 49:1. doi: 10.1186/s40659-015-0063-2.
16. [J. Gross, A.-C. Schwinn, F. Schmitz-Hsu, F. Menzi, C. Drögemüller, C. Albrecht, and R.M. Bruckmaier.](#) Rapid Communication: Cholesterol deficiency-associated APOB mutation impacts lipid metabolism in Holstein calves and breeding bulls. *J Anim Sci* 2016, 94:1761–1766.
17. [J. J. Gross, E.C. Kessler, C. Albrecht, R.M. Bruckmaier.](#) Response of the cholesterol metabolism to a negative energy balance in dairy cows depends on the lactational stage. *PLoS ONE* 2015, 10(6):e0121956. doi: 10.1371/journal.pone.0121956.
18. [A. Jain, H. Schneider, E. Aliyev, F. Soydemir, M. Baumann, D. Surbek, M. Hediger, P. Brownbill, and C. Albrecht.](#) Hypoxic treatment of human dual placental perfusion induces a pre-eclampsia-like inflammatory response. *Laboratory Invest* 2014, 94:873-880.
19. [E.C. Kessler, J. J. Gross, R. M. Bruckmaier, C. Albrecht.](#) Cholesterol metabolism, transport and hepatic regulation in dairy cows during transition and early lactation. *J Dairy Sci* 2014, 97:5481-5490.
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21. [M. Baumann, M. Körner, X. Huang, F. Wenger, D. Surbek, and C. Albrecht.](#) Placental ABCA1 and ABCG1 expression in gestational disease: pre-eclampsia affects ABCA1 levels in syncytiotrophoblasts. *Placenta* 2013, 34:1079-1086.
22. [G. Papacleovoulou, S. Abu-Hayyeh, E. Nikolopoulou, O. Briz, B.M. Owen, V. Nikolova, C. Ovadia, X. Huang, M. Vaarasmaki, M. Baumann, E. Jansen, C. Albrecht, M. Jarvelin, J. J. G. Marin, A.S Knisely, and Catherine Williamson.](#) Maternal cholestasis during pregnancy programs metabolic disease in offspring. *J Clin Invest* 2013, 123:3172-81. In the same issue a *Commentary* on this article was published.
23. [E.C. Ontsouka, X. Huang, B. Stieger and C. Albrecht.](#) Characteristics and functional relevance of apolipoprotein-A1 and cholesterol binding in mammary gland tissues and epithelial cells. *PLoS One* 2013, 8:e70407. doi: 10.1371/journal.pone.0070407.
24. [X. Huang, M. Baumann, L. Nikitina, F. Wenger, D. Surbek, M. Körner, and C. Albrecht.](#) RNA degradation differentially affects quantitative mRNA measurements of endogenous reference genes in human placenta. *Placenta* 2013, 34: 544-547.

25. [X. Huang, A. Jain, A. Baumann, M. Körner, D. Surbek, P. Bütikofer and C. Albrecht](#). Increased placental lipid levels in pre-eclamptic pregnancies. *Int J Mol Sci* 2013, 14:3487-3499.
26. [E.C. Ontsouka, I.A. Burgener, N. Luckschander-Zeller, J.W. Blum, and C. Albrecht](#). Fish-meal diet enriched with omega-3 PUFA and treatment of canine chronic enteropathies. *Eur J Lipid Sci Technol* 2012, 114:412-422. In the same issue a [Commentary](#) on this article was published.
27. [D. C. Patel, C. Albrecht, D. Pavitt, V. Paul, C. Pourreyron, S. P. Newman, I. F. Godsland, J. Valabhji, D. G. Johnston](#). Type 2 Diabetes is associated with reduced ATP-binding cassette transporter A1 gene expression, protein and function. *PLoS ONE* 2011, 6:e22142. doi:10.1371/journal.pone.0022142.
28. [C. Albrecht](#), L. Nikitina, F. Wenger, M. Baumann, D. Surbek, and M. Körner. ABCA1 and placental cholesterol efflux: a reply. *Placenta* 2011, 32:710-711. doi:10.1016/j.placenta.2011.06.006.
29. [L. Nikitina, F. Wenger, M. Baumann, D. Surbek, M. Körner and C. Albrecht](#). Expression and localization pattern of ABCA1 in diverse human placental primary cells and tissues. *Placenta* 2011, 32:420-430.
30. [O. Mani, M. Körner, E.C. Ontsouka, M.T. Sorensen, K. Sejrsen, R.M. Bruckmaier and C. Albrecht](#). Identification of ABCA1 and ABCG1 in milk fat globules and mammary cells – implications in milk cholesterol secretion. *J Dairy Sci* 2011, 94:1265-1276.
31. [C. Albrecht, L. Nikitina, F. Wenger, M. Baumann, D. Surbek and M. Körner](#). Localisation of ABCA1 in first trimester and term placental tissues. *Placenta* 2010, 31:741-742.
32. [O. Mani, M. Körner, M.T. Sorensen, K. Sejrsen, C. Wotzkow, R.R. Friis, R.M. Bruckmaier, and C. Albrecht](#). Expression, localization and functional model of cholesterol transporters in lactating and nonlactating mammary tissues of murine, bovine, and human origin. *Am J Physiol Regul Integr Comp Physiol* 2010, 299:R642-654.
33. [P. Guertler, V. Paul, K. Steinke, S. Wiedemann, W. Preißinger, C. Albrecht, H. Spiekers, F. J. Schwarz and H.H.D. Meyer](#). Long-term feeding of genetically modified corn (MON810) – Fate of *cry1Ab* DNA and recombinant protein during the metabolism of the dairy cow. *Livestock Science*, 2010, 131:250-259.
34. [K. Steinke, P. Guertler, V. Paul, S. Wiedemann, T. Ettle, C. Albrecht, H.H.D. Meyer, H. Spiekers and F.J. Schwarz](#). Effects of long-term feeding of genetically modified corn (event MON810) on the performance of lactating dairy cows. *J Anim Physiol Anim Nutr*, 2010, 94:e185-193.
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38. [P. Gürtler, V. Paul, C. Albrecht and H.H.D Meyer](#). Sensitive and highly specific quantitative real-time PCR and ELISA for recording a potential transfer of novel DNA and Cry1Ab protein from feed into bovine milk. *Anal Bioanal Chem* 2009, 393:1629-1638.
39. [S. Wiedemann, B. Lutz, C. Albrecht, R. Kuehn, B. Killermann, R. Einspanier and H.H.D. Meyer](#). Fate of genetically modified maize and conventional rapeseed, and endozoochory in wild boar (*Sus scrofa*). *Mamm Biol* 2009, 74:191-197.
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41. [C. Farke, H.H.D. Meyer, R.M. Bruckmaier and C. Albrecht](#). Differential expression of ABC transporters and their regulatory genes during lactation and dry period in bovine mammary tissues. *J Dairy Res* 2008, 75:406-414.
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43. [S. Wiedemann, P. Gürtler and C. Albrecht](#). Effect of feeding cows genetically modified maize on the bacterial community in the bovine rumen. *Appl Environ Microbiol* 2007, 73:8012-8017.
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- trafficking and reduced phosphatidylserine translocation in a patient with Scott syndrome. *Blood*, 2005, 106:542-549. In the same issue an *Editorial* on this article was published.
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## Reviews

1. S. Kallol and [C. Albrecht](#). Materno-fetal cholesterol transport during pregnancy. In press *Biochem Soc Trans* (March 2020).
2. [E.C. Ontsouka, C. Albrecht, R.M. Bruckmaier](#). Cell-surface receptors and receptor-like transporters in bovine mammary and intestinal tissues during the perinatal period. *J Dairy Sci*, 2016, 99:4111-4123.
3. [E.C. Ontsouka and C. Albrecht](#). Cholesterol transport and regulation in the mammary gland. Invited review *J Mammary Gland Biol Neoplasia*, 2014, 19:43-58.
4. [N. Montalbetti, M.G. Dalghi, C. Albrecht and M.A. Hediger](#). Nutrient transport in the mammary gland: Calcium, trace minerals and water soluble vitamins. Invited review *J Mammary Gland Biol Neoplasia*, 2014, 19:73-90.
5. [C. Albrecht and E. Viturro](#). The ABCA-subfamily – gene and protein structures, functions and associated hereditary diseases. Invited review *Eur J Physiol Pflugers Arch*, 2007, 453:581-589.
6. [S. Soumian, C. Albrecht, A.H. Davies and R.G.J. Gibbs](#). ABCA1 and atherosclerosis. *Vasc Med*, 2005, 10:109-119.

## Book chapters

1. [A. Jain and C. Albrecht](#). Importance of cholesterol and cholesterol transporters in the placental trophoblast during pregnancy. Book chapter in “*Human Placental Trophoblasts: Impacts on Maternal Nutrition.*” Editors: A.K. Duttaroy and S. Basak, CRC Press, 2015, 129-144. Print ISBN: 978-1-4822-5428-0, eBook ISBN: 978-1-4822-5429-7.
2. [C. Albrecht, X. Huang and C.E. Ontsouka](#). Cholesterol transporters in lactating and nonlactating human mammary tissue. In: *Handbook of Dietary and Nutritional Aspects of Human Breast Milk*, Editors: V.R. Preedy, R.R. Watson and S. Zibadi, Wageningen Academic Publishers, 2013, 147-164.
3. [C. Albrecht, B. Lutz and S. Wiedemann](#). Experimentelle Untersuchungen zur Verbreitung von Transgenen durch Tiere über pflanzliche Verbreitungseinheiten nach Magen-Darm-Passage und über horizontalen Gentransfer. Publikation im Auftrag des Bundesamtes für Naturschutz: *BfN-Skripten* 2007, 225:1-58.

**Other publications**

1. [C. Albrecht, L. Chamley, D.S. Charnock-Jones, S. Collins, H. Fujiwara, T. Golos, S. Grayo, N. Hannan, L. Harris, K. Ichizuka, N. Illsley, M. Iwashita, S. Kallol, A. Al-Khan, G. Lash, T. Nagamatsu, A. Nakashima, K. Niimi, M. Nomoto, C. Redman, S. Saito, K. Tanimura, M. Tomi, H. Usui, M. Vatish, B. Wolfe, E. Yamamoto, P. O'Tierney-Ginn](#). IFPA Meeting 2018 Workshop Report II: Abnormally invasive placenta; inflammation and infection; preeclampsia; gestational trophoblastic disease and drug delivery; *Placenta* 2019, pii: S0143-4004(18)31200-1. doi: 10.1016/j.placenta.2019.02.006.
2. [C. Albrecht, J.C. Baker, C. Blundell, S.L. Chavez, L. Carbone, L. Chamley, R.L. Hannibal, N. Illsley, P. Kurre, L.C. Laurent, C. McKenzie, D. Morales-Prieto, P. Pantham, A. Paquette, K. Powell, N. Price, B.M. Rao, Y. Sadovsky, C. Salomon, G. Tuteja, S. Wilson, P.F. O'Tierney-Ginn](#). IFPA meeting 2016 workshop report I: Genomic communication, bioinformatics, trophoblast biology and transport systems. *Placenta*, 2017; S0143-4004(17)30105-4. doi: 10.1016/j.placenta.2017.01.103.
3. [C. Albrecht, I. Caniggia, V. Clifton, C. Göhner, L. Harris, D. Hemmings, A. Jawerbaum, E. Johnstone, H. Jones, J. Keelan, R. Lewis, M. Mitchell, P. Murthi, T. Powell, R. Saffery, R. Smith, C. Vaillancourt, C. Wadsack, and C. Salomon](#). IFPA meeting 2015 workshop report IV: Nanomedicine applications and exosome biology, xenobiotics and endocrine disruptors and pregnancy, and lipid mediators and placental function. *Placenta* 2016; 48 Suppl 1:S12-S16.
4. [C.R. Baumrucker and C. Albrecht](#). Preface to Special Issue "Biological Transport Mechanisms in the Mammary Gland", *J Mammary Gland Biol Neoplasia*, 2014, 19:1-2.
5. [M.H. Abumaree, S. Alahari, C. Albrecht, I.L. Aye, S. Bainbridge, S. Chauvin, V.L. Clifton, G. Desoye, L. Ermini, D. Giuffrida, C.H. Graham, Q.T. Huang, B. Kalionis, S. Lager, L. Leech, Y. Li, M.L. Litvack, A.M. Nuzzo, M. Moretto-Zita, P. O'Tierney-Ginn, T. Powell, Rolfo A, C. Salomon, A. Serov, M. Westwood, H.W. Yung, and G.E. Lash](#). IFPA Meeting 2013 Workshop Report I: Diabetes in pregnancy, maternal dyslipidemia in pregnancy, oxygen in placental development, stem cells and pregnancy pathology. *Placenta* 2014, 35 Suppl:S4-S9.
6. [G. Acharya, C. Albrecht, S.J. Benton, T. Cotechini, R. Dechend, M.R. Dilworth, A.K. Duttaroy, T. Grotmol, A.E. Heazell, T. Jansson, E.D. Johnstone, H.N. Jones, R.L. Jones, S. Lager, K. Laine, L. Nagirnaja, M. Nystad, T. Powell, C. Redman, Y. Sadovsky, C. Sibley, R. Troisi, C. Wadsack, M. Westwood, and G.E. Lash](#). IFPA Meeting 2011 workshop report I: Placenta: Predicting future health; roles of lipids in the growth and development of feto-placental unit; placental nutrient sensing; placental research to solve clinical problems – A translational approach. *Placenta* 2012, 33 Suppl:S4-S8.
7. [H. Spiekers, H.H.D. Meyer, F.J. Schwarz, K. Steinke, W. Preissinger, C. Albrecht, P. Gürtler, V. Paul, and S. Wiedemann](#). Auswirkungen eines langfristigen Einsatzes von gentechnisch verändertem Mais (MON810) in der Milchviehfütterung auf Leistungs- und Stoffwechselformparameter. Schriftenreihe der Bayerischen Landesanstalt für Landwirtschaft, 2009, 18:1-105. ISSN 1611-4159.
8. S. Wiedemann and **C. Albrecht**. GV Futtermittel bei landwirtschaftlichen Nutztieren - Neue Studie zum zeitabhängigen Abbau von rekombinanter DNA und Novel Protein im Pansen des Rindes. *DIB-Nachrichten der Deutschen Industrievereinigung Biotechnologie*, February 2006
9. [S. Wiedemann, C. Albrecht and H.H.D. Meyer](#). Fragen der Produktsicherheit bei Fleisch und Milch. Transgener Mais als Futtermittel. *mais*, 2005, 2:46-49.

10. B. Lutz, C. Albrecht and H.H.D. Meyer. Transgene Futtermittel – Einfluss auf Milch? Eine objektive Betrachtung. *Deutsche Molkereizeitung*, 2005, 6:30-33.