



MEDICAL FACULTY UNIVERSITY HOSPITAL MAGDEBURG

EXPERIMENTAL OBSTETRICS AND GYNAECOLOGY

Publications

Selected publications of the Department of Experimental Gynecology and Obstetrics

2026

Hoymann, N.; Scholz, L.; Alboradi, S.; Grabar, V.; Uehre, G.M.; Khuankhunsathid, J.T.; Taube, E.T.; Toth, G.; Mészáros, J.; Gennari, P.; Tchaikovsky S, Ignatov A and Busse M. **Alterations in the Placenta Following Vaccination and Infection with SARS-CoV-2 During Pregnancy.** *Int. J. Mol. Sci.* 2026 [Link to Paper](#)

Scholz L, Hoymann N, Alboradi S, Grabar V, Uehre GM, Toth G, Mészáros J, Gennari P, Tchaikovsky S, Ignatov A and Busse M. **Detailed investigation of specific B cell populations in response to vaccination and infection with Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2) during pregnancy.** *Frontiers.* 2026 [Link to Paper](#)

2025

Uehre GM, Grabar V, Grage-Griebenow E, Klemens O, Scholz L, Hoymann N, Alboradi S, Ignatov A, Tchaikovsky S, Busse M.

Impact of SARS-CoV-2 Infection and Vaccination on Pregnancy Outcome and Passive Neonatal Immunity. *Cells.* 2025 [Link to Paper](#)

2023

Uehre GM, Tchaikovsky S, Ignatov A, Zenclussen AC, Busse M. **B Cells Induce Early-Onset Maternal Inflammation to Protect against LPS-Induced Fetal Rejection.** *Int J Mol Sci.* 2023 [Link to Paper](#)

2022

Campe KJ, Redlich A, Zenclussen AC, Busse M. **An increased proportion of progesterone receptor A in peripheral B cells from women who ultimately underwent spontaneous preterm birth.** *J Reprod Immunol.* 2022 [Link to Paper](#)

Busse M, Zenclussen AC. **IL-10 Producing B Cells Protect against LPS-Induced Murine Preterm Birth by Promoting PD1- and ICOS-Expressing T Cells.** *Cells.* 2022 [Link to Paper](#)

Busse M, Langwisch S, Tedford K, Fischer KD, Zenclussen AC. **Maternal B cell signaling orchestrates fetal development in mice.** *Development.* 2022 [Link to Paper](#)

2021

Busse M, Scharm M, Oettel A, Redlich A, Costa SD, Zenclussen AC. **Enhanced S100B expression in T and B lymphocytes in spontaneous preterm birth and preeclampsia.** J Perinat Med. 2021 [Link to Paper](#)

Busse M, Plenagl S, Campe NKJ, Müller AJ, Tedford K, Schumacher A, Zenclussen AC. **Maternal B Cell-Intrinsic MyD88 Signaling Mediates LPS-Driven Intrauterine Fetal Death.** Cells. 2021 [Link to Paper](#)

Busse M, Redlich A, Hartig R, Costa SD, Rathert H, Fest S, Zenclussen AC. **Imbalance between inflammatory and regulatory cord blood B cells following pre-term birth.** J Reprod Immunol. 2021 [Link to Paper](#)

2020

Santamaria CG, Meyer N, Schumacher A, Zenclussen ML, Teglia CM, Culzoni MJ, Zenclussen AC, Rodriguez HA. (2020) Dermal exposure to the UV filter benzophenone-3 during early pregnancy affects fetal growth and sex ratio of the progeny in mice. Arch Toxicol. 2020 May 19. doi: 10.1007/s00204-020-02776-5. Online ahead of print. PMID: 32430675

Meyer M, Langwisch S, Scharm M, Zenclussen AC.(2020) Using ultrasound to define the time point of intrauterine growth retardation in a mouse model of heme oxygenase-1 deficiency. Biol Reprod. 2020 Apr 28;ioaa057. doi: 10.1093/biolre/ioaa057. Online ahead of print. PMID: 32342097

Michael L. Dustin and Ana Claudia Zenclussen. (2020) A checkpoint cliffhanger at the dawn of placental mammals. J Biol Chem

Violeta Stojanovska and Ana Claudia Zenclussen. (2020) Innate and adaptive immune responses in HELLP syndrome. Front Immunol

Mandy Busse, Kim-Norina Jutta Campe, Anke Redlich, Anika Oettel, Roland Hartig, Serban-Dan Costa and Ana Claudia Zenclussen. (2020) Regulatory B Cells Are Decreased and Impaired in Their Function in Peripheral Maternal Blood in Pre-term Birth. Front Immunol 20 March 2020, doi: 10.3389/fimmu.2020.00386

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