MEDICAL FACULTYUNIVERSITY 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.; Tchaikovski 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, Tchaikovski 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, Tchaikovski 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, Tchaikovski 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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Ute Bank, Katrin Deiser, Carlos Plaza-Sirvent, Lisa Osbelt, Amelie Witte, Laura Knop, Rebecca Labrenz, Robert Jänsch, Felix Richter, Aindrila Biswas, Ana C Zenclussen, Eric Vivier, Chiara Romagnani, Anja A Kühl, Ildiko R Dunay, Till Strowig, Ingo Schmitz, Thomas Schüler. (2020) c-FLIP Is Crucial for IL-7/IL-15-dependent NKp46 + ILC Development and Protection From Intestinal Inflammation in Mice. Nat Commun , 11 (1), 1056 2020 Feb 26, DOI: 10.1038/s41467-020-14782-3

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