

# MEDICAL FACULTY UNIVERSITY HOSPITAL MAGDEBURG

## EXPERIMENTAL OBSTETRICS AN GYNAECOLOGY

### Publications

#### Selected publications of the Department of Experimental Gynecology and Obstetrics

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#### 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

**Nicole Meyer, Ana Claudia Zenclussen.** (2020) Immune Cells in the Uterine Remodeling: Are They the Target of Endocrine Disrupting Chemicals? Front Immunol, 11, 246 2020 Feb 19 eCollection 2020, DOI: 10.3389/fimmu.2020.00246

**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 Kühn, 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

**Nicolás Anselmino, Michael Starbuck, Estefania Labanca, Javier Cotignola, Nora Navone, Geraldine Gueron, Ana C Zenclussen, Elba Vazquez** (2020). Heme Oxygenase-1 Is a Pivotal Modulator of Bone Turnover and Remodeling: Molecular Implications for Prostate Cancer Bone Metastasis. Antioxid Redox Signal, 2020 Jan 20 [Online ahead of print]; DOI: 10.1089/ars.2019.7879

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**Anne Schumacher, Ana C Zenclussen.** (2019) Human Chorionic Gonadotropin-Mediated Immune Responses That Facilitate Embryo Implantation and Placentation. Front Immunol, 10, 2896 2019 Dec

**Ehrentraut S, Sauss K, Neumeister R, Luley L, Oettel A, Fettke F, Costa S-D, Langwisch S, Zenclussen AC, Schumacher A.**

(2019) Human Miscarriage Is Associated With Dysregulations in Peripheral Blood-Derived Myeloid Dendritic Cell Subsets. *Frontiers in Immunol* 2019 Oct 15; Volume 10 | Article 2440. doi: 10.3389/fimmu.2019.02440

**Luo Y, Meyer N, Jiao Q, Scheffel J, Zimmermann C, Metz M, Zenclussen AC, Mauerer M, Siebenhaar F.** (2019) Chymase-Cre; Mcl-1<sup>fl/fl</sup> Mice Exhibit Reduced Numbers of Mucosal Mast Cells. *Frontiers in Immunol* 2019 Oct 15, Volume 10 |

Article 2399. doi: 10.3389/fimmu.2019.02399

**Busse M, Campe KJ, Nowak D, Schumacher A, Plenagl S, Langwisch S, Tiegs G, Reinhold A, Zenclussen AC.** (2019) IL-10 producing B cells rescue mouse fetuses from inflammation-driven fetal death and are able to modulate T cell immune responses. *Sci Rep.* 2019 Jun 27; 9(1): 9335. doi: 10.1038/s41598-019-45860-2.

**Meyer N, Santamaria C, Müller JE, Schumacher A, Rodriguez HA and Zenclussen AC.** (2019) Exposure to 17 $\beta$ -ethinyl estradiol during early pregnancy affects fetal growth and survival in mice. *Environ Pollut.* 2019 May 9;251:493-501. doi: 10.1016/j.envpol.2019.04.144. [Epub ahead of print]

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**Santamaría CG, Abud JE, Porporato MM, Meyer N, Zenclussen AC, Kass L, Rodríguez HA.** (2018) The UV filter benzophenone 3, alters early follicular assembly in rat whole ovary cultures. *Toxicol Lett.* 2018 Dec 30;303:48-54. doi: 10.1016/j.toxlet.2018.12.016. [Epub ahead of print]

**Meyer N, Schüler T, Zenclussen AC,** High Frequency Ultrasound for the Analysis of Fetal and Placental Development *In Vivo*. *JOVE* in press.

**Ewert L, Fischer A, Brandt S, Scurt FG, Philipsen L, Müller AJ, Girndt M, Zenclussen AC, Lindquist JA, Gorny X, Mertens PR** (2018) Cold shock Y-box binding protein-1 acetylation status in monocytes is associated with systemic inflammation and vascular damage. Available online 22 September 2018. <https://doi.org/10.1016/j.atherosclerosis.2018.09.020> "provisional"

**Consentius C, Mirenska A, Jurisch A, Reinke S, Scharm M, Zenclussen AC, Hennig C, Volk HD.** (2018) In situ detection of CD73<sup>+</sup> CD90<sup>+</sup> CD105<sup>+</sup> lineage: Mesenchymal stromal cells in human placenta and bone marrow specimens by chipcytometry. *Cytometry A*, 2018 Sep 13. doi: 10.1002/cyto.a.23509

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**Müller JE, Meyer N, Santamaria CG, Schumacher A, Luque EH, Zenclussen ML, Rodriguez HA, Zenclussen AC.** (2018) Bisphenol A exposure during early pregnancy impairs uterine spiral artery remodeling and provokes intrauterine growth restriction in mice. *Sci Rep.* 2018 Jun 15;8(1):9196. doi: 10.1038/s41598-018-27575-y.

**Anne Schumacher, Stefanie Ehrentraut, Markus Scharm, Hongsheng Wang, Roland Hartig,**

**Herbert C. Morse III and Ana Claudia Zenclussen** (2018) Plasma Cell Alloantigen 1 and IL-10 Secretion Define Two Distinct Peritoneal B1a B Cell Subsets With Opposite Functions, PC1<sup>high</sup> Cells Being Protective and PC1<sup>low</sup> Cells Harmful for the Growing Fetus. *Front. Immunol.*, 15 May 2018 | <https://doi.org/10.3389/fimmu.2018.01045>

**Sauss K, Ehrentraut S, Zenclussen AC, Schumacher A.** (2018) The pregnancy hormone human chorionic gonadotropin differentially regulates plasmacytoid and myeloid blood dendritic cell subsets. *Am J Reprod Immunol.* 2018 Feb 28. doi: 10.1111/aji.12837

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## 2017

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**Weissenborn C, Ignatov T, Nass N, Kalinski T, Costa SD, Zenclussen AC, Ignatov A.** (2017) GPER Promoter Methylation Controls GPER Expression in Breast Cancer Patients. *Cancer Investigation*, 2017, S. 1-8, doi: 10.1080/07357907.2016.1271886.

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**Kohli S, Ranjan S, Hoffmann J, Kashif M, Daniel EA, Al-Dabet MM, Bock F, Nazir S, Huebner H, Mertens PR, Fischer KD, Zenclussen AC, Offermanns S, Aharon A, Brenner B, Shahzad K, Ruebner M, Isermann B.** (2016) Maternal extracellular vesicles and platelets promote preeclampsia through inflammasome activation in embryonic trophoblast. *Blood*. 2016 Sep 2. pii: blood-2016-03-705434. [Epub ahead of print]

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