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Maternal Phthalate Exposure Promotes Allergic Airway Inflammation over Two Generations Via Epigenetic Modifications

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ACCEPTED MANUSCRIPT Maternal phthalate exposure promotes allergic airway inflammation over two 1 generations via epigenetic modifications 2 3 Susanne Jahreis, PhD^{1,2,15*}, Saskia Trump, PhD^{1*}, Mario Bauer, MD¹, Tobias Bauer, PhD³, 4 Loreen Thürmann, MSc¹, Ralph Feltens, PhD⁴, Qi Wang, PhD³, Lei Gu, PhD³, Konrad 5 Grützmann, PhD¹, Stefan Röder, PhD¹, Marco Averbeck, MD², Dieter Weichenhan, PhD⁵, 6 Christoph Plass, PhD⁵, Ulrich Sack, MD⁶, Michael Borte, MD⁷, Virginie Dubourg, MSc⁸, Gerrit 7 Schüürmann, PhD^{9,10}, Jan C. Simon, MD², Martin von Bergen, PhD^{4,11,12}, Jörg Hackermüller, 8 PhD⁸, Roland Eils, PhD^{3,13,14*}, Irina Lehmann, PhD^{1*}, Tobias Polte, PhD^{1,2*} 9 10 ¹Department of Environmental Immunology, UFZ – Helmholtz Centre for Environmental 11 Research Leipzig-Halle, Leipzig, Germany 12 ²Department of Dermatology, Venerology and Allergology, Leipzig University Medical 13 Center, Leipzig, Germany 14 ³Division of Theoretical Bioinformatics, German Cancer Research Center (DKFZ), 15 16 Heidelberg, Germany ⁴Department Molecular Systems Biology, UFZ - Helmholtz Centre for Environmental 17 Research, Leipzig, Germany 18 ⁵Division of Epigenomics and Cancer Risk Factors, German Cancer Research Center 19

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