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Glucagon-like peptide-1 receptor signaling attenuates RSV-induced type 2 responses and immunopathology

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Bloodworth et al. Running Title: GLP-1 attenuates RSV immunopathology

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46 47 48 Glucagon-like peptide-1 receptor signaling attenuates RSV-induced type 2 responses and immunopathology Running Title: GLP-1 attenuates RSV immunopathology Melissa H. Bloodworth, Ph.D.^a Mark Rusznak,^b Connor C. Pfister,^b Jian Zhang, M.S.^b Lisa Bastarache, Ph.D.^c Sandra Alvarez Calvillo, B.S.^d James D. Chappell, M.D., Ph.D.^d Kelli L. Boyd, D.V.M., Ph.D.^a Shinji Toki, Ph.D.^b Dawn C. Newcomb, Ph.D.^{a,b} Matthew T. Stier, B.S.^a Weisong Zhou, Ph.D.^b Kasia Goleniewska, M.S.^b Martin L. Moore, Ph.D.^e Tina V. Hartert, M.D., M.P.H.^b Kevin D. Niswender, M.D., Ph.D.^{f*} R. Stokes Peebles, Jr., M.D.^{a,b}* ^aDepartment of Pathology, Microbiology, and Immunology, Vanderbilt University School of Medicine, Nashville, TN, USA ^bDivision of Allergy, Pulmonary and Critical Care Medicine, Department of Medicine, Vanderbilt University School of Medicine, Nashville, TN, USA ^cDepartment of Biomedical Informatics, Vanderbilt University School of Medicine, Nashville, TN, USA ^dDivision of Infectious Disease, Department of Pediatrics, Vanderbilt University School of Medicine, Nashville, TN, USA ^eDivision of Infectious Disease, Department of Pediatrics, Emory University School of Medicine, Atlanta, GA, USA ^fDivision of Diabetes, Endocrinology, and Metabolism, Department of Medicine, Vanderbilt University School of Medicine, Nashville, TN, USA *These authors contributed equally to this work Address correspondence to: Stokes Peebles, M.D. Division of Allergy, Pulmonary and Critical Care Medicine Vanderbilt University School of Medicine **T-1218 MCN, VUMC** 1161 21st Ave South Nashville, TN 37232-2650, USA Telephone: 615-343-3412: fax: 615-343-7448 E-mail: stokes.peebles@vanderbilt.edu

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