Peer-reviewed publications

1. Vieyres G, Welsch K, **Gerold G**, Gentzsch J, Kahl S, Vondran FW, Kaderali L, Pietschmann T. (2016) ABHD5/CGI-58, the Chanarin-Dorfman Syndrome Protein, Mobilises Lipid Stores for Hepatitis C Virus Production. *PLoS Pathogens.* 28;12(4):e1005568. PMID:27124600

2. **Gerold G**, Bruening J, Pietschmann T. (2015) Decoding protein networks during virus entry by quantitative proteomics. *Virus Research*. doi:10.1016/j.virusres.2015.09.006. PMID: 26365680

3. Lump E, Castellano LM, Meier C, Seeliger J, Erwin N, Sperlich B, Stürzel CM, Usmani S, Hammond RM, von Einem J, **Gerold G**, Kreppel F, Bravo-Rodriguez K, Pietschmann T, Holmes VM, Palesch D, Zirafi O, Weissman D, Sowislok A, Wettig B, Heid C, Kirchhoff F, Weil T, Klärner FG, Schrader T, Bitan G, Sanchez-Garcia E, Winter R, Shorter J*, and Münch J*. (2015) A molecular tweezer antagonizes seminal amyloids and HIV infection**.** *eLife*. 4:e05397. PMID: 26284498

4. **Gerold G**, Meissner F, Bruening J, Welsch K, Perin PM, Thomas F. Baumert, Vondran FW, Kaderali L, Marcotrigiano J, Khan AG, Mann M, Rice CM, Pietschmann T. (2015) Quantitative Proteomics Identifies Serum Response Factor Binding Protein 1 as a Host Factor for Hepatitis C Virus Entry. *Cell Reports*. 4;12(5):864-78. PMID: 26212323

5. Scull MA, Shi C, de Jong YP, **Gerold G**, Ries M, von Schaewen M, Donovan BM, Labitt RN, Horwitz JA, Gaska JM, Hrebikova G, Xiao JW, Flatley B, Fung C, Chiriboga L, Walker CM, Evans DT, Rice CM, Ploss A. (2015) Hepatitis C virus infects rhesus macaque hepatocytes and simianized mice. *Hepatology*. 62(1):57-67. PMID: 25820364

6. **Gerold G**, Pietschmann T. (2014) The HCV life cycle: In vitro tissue culture systems and therapeutic targets. *Digestive Diseases*. 32(5):525-37. PMID:25034285

7. Vogt A, Scull MA, Friling T, Horwitz JA, Donovan BM, Dorner M, **Gerold G**, Labitt RN, Rice CM, Ploss A. (2013) Recapitulation of the hepatitis C virus life-cycle in engineered murine cell lines. *Virology*. 444(1-2):1-11. PMID: 23777661

8. **Gerold G**, Pietschmann T. (2013) Opportunities and risks of host-targeting antiviral strategies for hepatitis C. *Current Hepatitis Reports*. 12(4): 200-213.

9. **Gerold G**, Pietschmann T. (2013) A circuit of paracrine signals between liver sinusoid endothelial cells and hepatocytes regulates hepatitis C virus replication. Hepatology. doi: 10.1002/hep.26621. PMID: 2385746

10. **Gerold G,** Pietschmann T. (2013) Hepatitis C virus NS5B polymerase primes innate immune signaling. *Hepatology.* 57(3):1275-7. PMID: 23426794

11. Kapoor A, Simmonds P, **Gerold G**, Qaisar N, Jain K, Henriquez JA, Firth C, Hirschberg DL, Rice CM, Shields S, Lipkin WI. (2011) Characterization of a canine homolog of hepatitis C virus. PNAS. 108(28):11608-13. PMCID: PMC3136326

12. **Gerold G**, Rice CM. (2011) Locking out hepatitis C. Nature Medicine.17(5):542-4. PMID: 21546968

13. **Gerold G**, Rice CM, Ploss A. (2010) Teaching new tricks to an old foe: murinizing hepatitis C virus. *Hepatology.* 52(6):2233-6.
PMC4509484

14. **Gerold G**, Abu Ajaj K, Bienert M, Laws HJ, Zychlinsky A, de Diego JL. (2008) A Toll-like receptor 2–integrin β_3 complex senses bacterial lipopeptides via vitronectin. *Nature Immunology*. 9(7):761-8.
PMID: 18516040

15. **Gerold G**, Zychlinsky A, de Diego JL. (2007) What is the role of Toll-like receptors in bacterial infections? *Semin Immunol.* 19(1):41-7.
PMID: 17280841

16. de Diego JL, **Gerold G**, Zychlinsky A. (2007) Sensing, presenting, and regulating PAMPs. *Ernst Schering Found Symp Proc.* 3:83-95.
PMID: 18510100

17. Loll B*, **Gerold G***, Slowik D, Voelter W, Jung C, Saenger W, Irrgang KD. (2005) Thermostability and Ca2+ binding properties of wild type and heterologously expressed PsbO protein from cyanobacterial photosystem II. *Biochemistry.* 44(12):4691-8. * these authors contributed equally
PMID: 15779895

Published abstracts

1. Banse B, Bruening J, Kahl S, Pietschmann T, **Gerold G**. (2016) Species-specific domains of CD81 required by hepatitis C virus for cell entry. 22nd Annual Meeting of the German Society for Virology, Germany

2. Banse B, Bruening J, Pietschmann T, **Gerold G**. (2016) Structural and Functional Determinants of the Hepatitis C Virus Receptor CD81. Keystone Symposium: Cell Biology and Immunology of Persistent Infection, Canada

3. von Schaewen M, Dorner M, Hüging K, Bitzegeio J, Horwitz JA, **Gerold G**, Rice CM, Meuleman P, Pietschmann T, Ploss A. (2015) Expanding the host range of hepatitis C virus through viral adaptation. Hep Dart, USA

4. **Gerold G**, Meissner F, Bruening J, Welsch K, Perin PM, Thomas F. Baumert, Vondran FW, Kaderali L, Marcotrigiano J, Khan AG, Mann M, Rice CM, Pietschmann T. (2015) Serum-response Factor Binding Protein 1 is a HCV Host Co-factor Required for Cell Entry. 22nd International Meeting on Hepatitis C Virus and Related Viruses, France

5. **Gerold G**, Bruening J, Meissner F, Welsch K, Kaderali L, Mann M, Rice CM, Pietschmann T. (2015) Quantitative Proteomics Reveals Stable and Virus-triggered Interactions of the Hepatitis C Virus Receptor CD81 Relevant for Host Cell Entry. Gordon Conference: Viruses & Cells, Spain

6. **Gerold G,** Meissner F, Bruening J, Welsch K, Perin PM, Thomas F. Baumert, Vondran FW, Kaderali L, Marcotrigiano J, Khan AG, Mann M, Rice CM, Pietschmann T. (2015) Quantitative Proteomics Identifies Serum Response Factor Binding Protein 1 as a Host Factor for Hepatitis C Virus Entry. 25th Annual Meeting of the Society for Virology, Germany

7. **Gerold G**, Bruening J, Meissner F, Welsch K, Kaderali L, Mann M, Rice CM, Pietschmann T. (2014) Quantitative Proteomics Identifies SRFBP1 as Hepatitis C Virus Entry Factor. Keystone Symposium: The Ins and Outs of Viral Infection, USA

8. **Gerold G**, Meissner F, Kaderali L, Mann M, Rice CM, Pietschmann T. (2013) Elucidation of the Hepatitis C Virus Entry Pathway Using Quantitative Proteomics. Gordon Conference: Viruses & Cells, Italy

9. **Gerold G**, Meissner F, Mann M, Rice CM, Pietschmann T. (2012) Identification of CD81 Associated Factors Relevant for HCV Entry. 19th International Symposium on Hepatitis C Virus and Related Viruses, Italy

10. **Gerold G**, Meissner F, Mann M, Rice CM, Pietschmann T. (2012) Molecular Characterization of Interactions during Hepatitis C Virus Entry. HFSP Awardees Meeting, South Korea

11. **Gerold G**, Mu K., Horwitz JA, Barry WT, Sheahan T, de Jong YP, Evans DT, Rice CM, Ploss A. (2010) Creation of a Non-Human Primate Model for Hepatitis C. HFSP Awardees Meeting, India

12. **Gerold G**, Abu Ajaj K, Bienert M, Laws HJ, Zychlinsky A, and de Diego JL. (2008) Toll-like receptor 2 requires integrin beta3 and vitronectin to sense bacterial lipopeptides. Keystone Symposium: Innate Immunity, Signaling Mechanisms, USA

13. **Gerold G**, de Diego JL, and Zychlinsky A. (2006) Identification of the receptor complex for bacterial lipoproteins on human monocytes. 16th European Congress of Immunology, France

F1000 contributions

1. Commentary on "Proteomics of HCV virions reveals an essential role for the nucleoporin Nup98 in virus morphogenesis."
   Thomas Pietschmann and **Gisa Gerold** F1000 Microbiology
   01 Apr 2016 | Confirmation, Good for Teaching, New Finding, Novel Drug Target DOI: 10.3410/f.726151323.793516162.

2. Commentary on "SERINC3 and SERINC5 restrict HIV-1 infectivity and are counteracted by Nef."
   Alexander Ploss and **Gisa Gerold** F1000 Microbiology
   30 Oct 2015 | New Finding DOI: 10.3410/f.725818213.793510398

3. Commentary on "HIV-1 Nef promotes infection by excluding SERINC5 from virion incorporation."
   Alexander Ploss and **Gisa Gerold** F1000 Microbiology
   30 Oct 2015 | New Finding DOI: 10.3410/f.725818212.793510279

4. Commentary on "Structural basis of eukaryotic cell-cell fusion."
   Alexander Ploss and **Gisa Gerold** F1000 Microbiology
   30 April 2014 | Interesting Hypothesis | New Finding DOI: 10.3410/f.718348654.793494088

5. Commentary on "Noncanonical Inflammasome Activation by Intracellular LPS Independent of TLR4."
   Alexander Ploss and **Gisa Gerold** F1000 Microbiology
   04 Sep 2013 | New Finding DOI: 10.3410/f.718047661.793481359

6. Commentary on "A variant upstream of IFNL3 (IL28B) creating a new interferon gene IFNL4 is associated with impaired clearance of hepatitis C virus."
   Alexander Ploss and **Gisa Gerold** F1000 Microbiology
   23 Jan 2013 | New Finding DOI: 10.3410/f.717970752.793469186

7. Commentary on "Convergent evolution of escape from hepaciviral antagonism in primates."
   Alexander Ploss and **Gisa Gerold** F1000 Microbiology
   26 Apr 2012 | Confirmation, New Finding DOI: 10.3410/f.14267310.15779506

8. Commentary on "Adaptation of hepatitis C virus to mouse CD81 permits infection of mouse cells in the absence of human entry factors."
   Alexander Ploss and **Gisa Gerold** F1000 Microbiology
   05 Aug 2010 | New Finding, Technical Advance DOI: 10.3410/f.4567956.4435054

9. Commentary on "LGP2 is a positive regulator of RIG-I- and MDA5-mediated antiviral responses."
   Alexander Ploss and **Gisa Gerold** F1000 Microbiology
   19 May 2010 | Controversial, New Finding DOI: 10.3410/f.1845956.1387054