

List of Publications

Jussi Hepojoki, MSc, PhD

1. Rissanen I, Stass R, Zeltina A, Li S, **Hepojoki J**, Harlos K, Gilbert RJC, Huiskonen JT, Bowden TA. Structural Transitions of the Conserved and Metastable Hantaviral Glycoprotein Envelope. *J Virol*. 2017 Oct 13;91(21). pii: e00378-17. doi: 10.1128/JVI.00378-17. Print 2017 Nov 1.
2. Dervas E, **Hepojoki J**, Laimbacher A, Romero-Palomo F, Jelinek C, Keller S, Smura T, Hepojoki S, Kipar A, Hetzel U. Nidovirus-Associated Proliferative Pneumonia in the Green Tree Python (*Morelia viridis*). *J Virol*. 2017 Aug 9. pii: JVI.00718-17. doi: 10.1128/JVI.00718-17. [Epub ahead of print] PubMed PMID: 28794044.
3. Keller S, Hetzel U, Sironen T, Korzyukov Y, Vapalahti O, Kipar A, **Hepojoki J**. Co-infecting Reptarenaviruses Can Be Vertically Transmitted in Boa Constrictor. *PLoS Pathog*. 2017 Jan 23;13(1):e1006179. doi: 10.1371/journal.ppat.1006179. eCollection 2017 Jan. PubMed PMID: 28114434; PubMed Central PMCID: PMC5289648.
4. Kazlauskas A, Schmotz C, Kesti T, **Hepojoki J**, Kleino I, Kaneko T, Li Saksela K. Large-Scale Screening of Preferred Interactions of Human Src Homology-3 (SH3) Domains Using Native Target Proteins as Affinity Ligands. *Mol Cell Proteomics*. 2016 Oct;15(10):3270-3281. Epub 2016 Jul 20. PubMed PMID: 27440912; PubMed Central PMCID: PMC5054349.
5. Li S, Rissanen I, Zeltina A, **Hepojoki J**, Raghwani J, Harlos K, Pybus OG, Huiskonen JT, Bowden TA. A Molecular-Level Account of the Antigenic Hantaviral Surface. *Cell Rep*. 2016 Jun 28;16(1):278. doi:10.1016/j.celrep.2016.06.039. Epub 2016 28. PubMed PMID: 27355863.
6. Korzyukov Y, Hetzel U, Kipar A, Vapalahti O, **Hepojoki J**. Generation of Anti-Boa Immunoglobulin Antibodies for Serodiagnostic Applications, and Their Use to Detect Anti-Reptarenavirus Antibodies in Boa Constrictor. *PLoS One*. 2016 Jun 29;11(6):e0158417. doi: 10.1371/journal.pone.0158417. eCollection 2016. PubMed PMID: 27355360; PubMed Central PMCID: PMC4927170.
7. Adouchief S, Smura T, Vapalahti O, **Hepojoki J**. Mapping of human B-cell epitopes of Sindbis virus. *J Gen Virol*. 2016 Sep;97(9):2243-54. doi:10.1099/jgv.0.000531. Epub 2016 Jun 23. PubMed PMID: 27339177.
8. Li S, Rissanen I, Zeltina A, **Hepojoki J**, Raghwani J, Harlos K, Pybus OG, Huiskonen JT, Bowden TA. A Molecular-Level Account of the Antigenic Hantaviral Surface. *Cell Rep*. 2016 May 3;15(5):959-967. doi: 10.1016/j.celrep.2016.03.082. Epub 2016 Apr 21. PubMed PMID: 27117403; PubMed Central PMCID: PMC4858563.
9. Paneth Iheozor-Ejiofor R, Levanov L, **Hepojoki J**, Strandin T, Lundkvist Å, Plyusnin A, Vapalahti O. Vaccinia virus-free rescue of fluorescent replication-defective vesicular stomatitis virus and pseudotyping with Puumala virus glycoproteins for use in neutralization tests. *J Gen Virol*. 2016 May;97(5):1052-9. doi: 10.1099/jgv.0.000437. Epub 2016 Feb 23. PubMed PMID: 26916544.

10. Strandin T, **Hepojoki J**, Laine O, Mäkelä S, Klingström J, Lundkvist Å, Julkunen I, Mustonen J, Vaehri A. Interferons Induce STAT1-Dependent Expression of Tissue Plasminogen Activator, a Pathogenicity Factor in Puumala Hantavirus Disease. *J Infect Dis.* 2016 May 15;213(10):1632-41. doi: 10.1093/infdis/jiv764. Epub 2015 Dec 23. PubMed PMID: 26704613.
11. **Hepojoki J**, Salmenperä P, Sironen T, Hetzel U, Korzyukov Y, Kipar A, Vapalahti O. Arenavirus Coinfections Are Common in Snakes with Boid Inclusion Body Disease. *J Virol.* 2015 Aug;89(16):8657-60. doi: 10.1128/JVI.01112-15. Epub 2015 Jun 3. PubMed PMID: 26041290; PubMed Central PMCID: PMC4524219.
12. Hepojoki S, Rusanen J, **Hepojoki J**, Nurmi V, Vaehri A, Lundkvist Å, Hedman K, Vapalahti O. Competitive Homogeneous Immunoassay for Rapid Serodiagnosis of Hantavirus Disease. *J Clin Microbiol.* 2015 Jul;53(7):2292-7. doi: 10.1128/JCM.00663-15. Epub 2015 May 13. PubMed PMID: 25972427; PubMed Central PMCID: PMC4473216.
13. Kleino I, Järviluoma A, **Hepojoki J**, Huovila AP, Saksela K. Preferred SH3 domain partners of ADAM metalloproteases include shared and ADAM-specific SH3 interactions. *PLoS One.* 2015 Mar 31;10(3):e0121301. doi: 10.1371/journal.pone.0121301. eCollection 2015. PubMed PMID: 25825872; PubMed Central PMCID: PMC4380453.
14. Ling J, Vaehri A, Hepojoki S, Levanov L, Jääskeläinen A, Henttonen H, Vapalahti O, Sironen T, **Hepojoki J**. Serological survey of Seewis virus antibodies in patients suspected for hantavirus infection in Finland; a cross-reaction between Puumala virus antiserum with Seewis virus N protein? *J Gen Virol.* 2015 Jul;96(Pt 7):1664-75. doi: 10.1099/vir.0.000127. Epub 2015 Mar 18. PubMed PMID: 25787939.
15. **Hepojoki J**, Vaehri A, Strandin T. The fundamental role of endothelial cells in hantavirus pathogenesis. *Front Microbiol.* 2014 Dec 22;5:727. doi: 10.3389/fmicb.2014.00727. eCollection 2014. PubMed PMID: 25566236; PubMed Central PMCID: PMC4273638.
16. Tian YP, **Hepojoki J**, Ranki H, Lankinen H, Valkonen JP. Analysis of potato virus Y coat protein epitopes recognized by three commercial monoclonal antibodies. *PLoS One.* 2014 Dec 26;9(12):e115766. doi: 10.1371/journal.pone.0115766. eCollection 2014. PubMed PMID: 25542005; PubMed Central PMCID: PMC4277358.
17. Hepojoki S, **Hepojoki J**, Hedman K, Vapalahti O, Vaehri A. Rapid homogeneous immunoassay based on time-resolved Förster resonance energy transfer for serodiagnosis of acute hantavirus infection. *J Clin Microbiol.* 2015 Feb;53(2):636-40. doi: 10.1128/JCM.02994-14. Epub 2014 Dec 17. PubMed PMID: 25520445; PubMed Central PMCID: PMC4298511.
18. **Hepojoki J**, Kipar A, Korzyukov Y, Bell-Sakyi L, Vapalahti O, Hetzel U. Replication of boid inclusion body disease-associated arenaviruses is temperature sensitive in both boid and mammalian cells. *J Virol.* 2015 Jan 15;89(2):1119-28. doi: 10.1128/JVI.03119-14. Epub 2014 Nov 5. PubMed PMID: 25378485; PubMed Central PMCID: PMC4300630.
19. Hepojoki S, Nurmi V, Vaehri A, Hedman K, Vapalahti O, **Hepojoki J**. A protein L-based immunodiagnostic approach utilizing time-resolved Förster resonance energy transfer. *PLoS One.* 2014 Sep 2;9(9):e106432. doi: 10.1371/journal.pone.0106432. eCollection 2014. PubMed PMID: 25181527; PubMed Central PMCID: PMC4152265.

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21. **Hepojoki J**, Strandin T, Hetzel U, Sironen T, Klingström J, Sane J, Mäkelä S, Mustonen J, Meri S, Lundkvist A, Vapalahti O, Lankinen H, Vaheri A. Acute hantavirus infection induces galectin-3-binding protein. *J Gen Virol*. 2014 Nov;95(Pt 11):2356-64. doi: 10.1099/vir.0.066837-0. Epub 2014 Jul 10. PubMed PMID: 25013204.
22. Kuivanen S, **Hepojoki J**, Vene S, Vaheri A, Vapalahti O. Identification of linear human B-cell epitopes of tick-borne encephalitis virus. *Virology*. 2014 Jun 19;511:115. doi: 10.1016/j.virol.2014.04.011. PubMed PMID: 24946852; PubMed Central PMCID: PMC4078944.
23. Hetzel U, Sironen T, Laurinmäki P, Liljeroos L, Patjas A, Henttonen H, Vaheri A, Artelt A, Kipar A, Butcher SJ, Vapalahti O, **Hepojoki J**. Reply to "Updated phylogenetic analysis of arenaviruses detected in boid snakes". *J Virol*. 2014 Jan;88(2):1401. doi: 10.1128/JVI.03044-13. PubMed PMID: 24379419; PubMed Central PMCID: PMC3911678.
24. Hetzel U, Sironen T, Laurinmäki P, Liljeroos L, Patjas A, Henttonen H, Vaheri A, Artelt A, Kipar A, Butcher SJ, Vapalahti O, **Hepojoki J**. Isolation, identification, and characterization of novel arenaviruses, the etiological agents of boid inclusion body disease. *J Virol*. 2013 Oct;87(20):10918-35. doi:10.1128/JVI.01123-13. Epub 2013 Aug 7. PubMed PMID: 23926354; PubMed Central PMCID: PMC3807292. 23. Vaheri A, Strandin T, **Hepojoki J**, Sironen T, Henttonen H, Mäkelä S, Mustonen J. Uncovering the mysteries of hantavirus infections. *Nat Rev Microbiol*. 2013. Aug;11(8):539-50. Review. PubMed PMID: 24020072.
25. Saraheimo S, **Hepojoki J**, Nurmi V, Lahtinen A, Hemmilä I, Vaheri A, Vapalahti O, Hedman K. Time resolved FRET -based approach for antibody detection - a new serodiagnostic concept. *PLoS One*. 2013 May 7;8(5):e62739. doi:10.1371/journal.pone.0062739. Print 2013. PubMed PMID: 23667515; PubMed Central PMCID: PMC3647052.
26. Strandin T, **Hepojoki J**, Vaheri A. Cytoplasmic tails of bunyavirus Gn glycoproteins—Could they act as matrix protein surrogates? *Virology*. 2013 Mar 15;437(2):73-80. doi: 10.1016/j.virol.2013.01.001. Epub 2013 Jan 26. Review. PubMed PMID: 23357734.
27. **Hepojoki J**, Strandin T, Lankinen H, Vaheri A. Hantavirus structure—molecular interactions behind the scene. *J Gen Virol*. 2012 Aug;93(Pt 8):1631-44. doi:10.1099/vir.0.042218-0. Epub 2012 May 23. Review. PubMed PMID: 22622328.