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## Publications

### **Ancestral allele of DNA polymerase gamma modifies antiviral tolerance**

Kang, Y., Hepojoki, J., Maldonado, R. S., Mito, T., Terzioglu, M., Manninen, T., Kant, R., Singh, S., Othman, A., Verma, R., Uusimaa, J., Wartiovaara, K., Kareinen, L., Zamboni, N., Nyman, T. A., Paetau, A., Kipar, A., Vapalahti, O. & Suomalainen, A., 3 Apr 2024, In: *Nature*. 628, p. 844–853 10 p.

### **Whole Blood as a Sample Matrix in Homogeneous Time-Resolved Assay—Förster Resonance Energy Transfer-Based Antibody Detection**

Lintala, A., Vapalahti, O., Nousiainen, A., Kantele, A. & Hepojoki, J., Apr 2024, In: *Diagnostics*. 14, 7, 11 p., 720.

### **Comparative analysis of human, rodent and snake deltavirus replication**

Khalfi, P., Denis, Z., McKellar, J., Merolla, G., Chavey, C., Ursic-Bedoya, J., Soppa, L., Szirovicza, L., Hetzel, U., Dufourt, J., Leyrat, C., Goldmann, N., Goto, K., Verrier, E., Baumert, T. F., Glebe, D., Cournaud, V., Gregoire, D., Hepojoki, J. & Majzoub, K., Mar 2024, In: *PLoS Pathogens*. 20, 3, 30 p., e1012060.

### **Nanobody engineering for SARS-CoV-2 neutralization and detection**

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### **A Multiplex RT-PCR Method for the Detection of Reptarenavirus Infection**

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### **ICTV Virus Taxonomy Profile: Arenaviridae 2023**

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### **Image-based and machine learning-guided multiplexed serology test for SARS-CoV-2**

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### **The Relationship Between SARS-CoV-2 Neutralizing Antibody Titers and Avidity in Plasma Collected From Convalescent nonvaccinated and Vaccinated Blood Donors**

Nurmi, V., Knight, C., Estcourt, L., Hepojoki, J., Lamikanra, A. A., Tsang, H. P., Roberts, D. J., Polack, F. P., Simmonds, P., Hedman, K., Alvarez-Paggi, D. & Harvala, H., 11 Aug 2023, In: *Journal of Infectious Diseases*. 228, 3, p. 245-250 6 p.

**Reptarenavirus S Segment RNA Levels Correlate with the Presence of Inclusion Bodies and the Number of L Segments in Snakes with Reptarenavirus Infection-Lessons Learned from a Large Breeding Colony**

Thiele, T., Baggio, F., Prahauer, B., Subira, A. R., Michalopoulou, E., Kipar, A., Hetzel, U. & Hepojoki, J., Jun 2023, In: *Microbiology Spectrum*. 11, 3, 16 p., e0506522.

**Risk of lymphoid malignancies increased after Puumala virus infection in Finland, 2009-2019: A retrospective register-based cohort study**

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**Intranasal administration of adenoviral vaccines expressing SARS-CoV-2 spike protein improves vaccine immunity in mouse models**

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**SARS-CoV-2 and type 1 diabetes in children in Finland: an observational study**

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**Intranasal trimeric sherpabody inhibits SARS-CoV-2 including recent immunoevasive Omicron subvariants**

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**Puumala Hantavirus Infections Show Extensive Variation in Clinical Outcome**

Vaheri, A., Smura, T., Vauhkonen, H., Hepojoki, J., Sironen, T., Strandin, T., Tietäväinen, J., Outinen, T., Mäkelä, S., Pörsti, I. & Mustonen, J., Mar 2023, In: *Viruses-Basel*. 15, 3, 9 p., 805.

**2022 taxonomic update of phylum Negarnaviricota (Riboviria: Orthornavirae), including the large orders Bunyavirales and Mononegavirales**

Kuhn, J. H., Adkins, S., Alkhovsky, S., Avsic-Zupanc, T., Ayllon, M. A., Bahl, J., Balkema-Buschmann, A., Ballinger, M. J., Bandte, M., Beer, M., Beijerman, N., Bergeron, E., Biedenkopf, N., Bigarre, L., Blair, C. D., Blasdel, K. R., Bradfute, S. B., Briese, T., Brown, P. A., Bruggmann, R., & 161 others Buchholz, U. J., Buchmeier, M. J., Bukreyev, A., Burt, F., Buettner, C., Calisher, C. H., Candresse, T., Carson, J., Casas, I., Chandran, K., Charrel, R. N., Chiaki, Y., Crane, A., Crane, M., Dacheux, L., Dal Bo, E., de la Torre, J. C., de Lamballerie, X., de Souza, W. M., de Swart, R. L., Dheilly, N. M., Di Paola, N., Di Serio, F., Dietzgen, R. G., Digiario, M., Drexler, J. F., Duprex, W. P., Duerwald, R., Easton, A. J., Elbeaino, T., Ergunay, K., Feng, G., Feuvrier, C., Firth, A. E., Fooks, A. R., Formenty, P. B. H., Freitas-Astua, J., Gago-Zachert, S., Garcia, M. L., Garcia-Sastre, A., Garrison, A. R., Godwin, S. E., Gonzalez, J.-P. J., de Bellocq, J. G., Griffiths, A., Groschup, M. H., Gunther, S., Hammond, J., Hepojoki, J., Hierweger, M. M., Hongo, S., Horie, M., Horikawa, H., Hughes, H. R., Hume, A. J., Hyndman, T. H., Jiang, D., Jonson, G. B., Junglen, S., Kadono, F., Karlin, D. G., Klempa, B., Klingstrom, J., Koch, M. C., Kondo, H., Koonin, E., Krasova, J., Krupovic, M., Kubota, K., Kuzmin, I., Laenen, L., Lambert, A. J., Li, J., Li, J.-M., Liefbrig, F., Lukashevich, I. S., Luo, D., Maes, P., Marklewitz, M., Marshall, S. H., Marzano, S.-Y. L., McCauley, J. W., Mirazimi, A., Mohr, P. G., Moody, N. J. G., Morita, Y., Morrison, R. N., Muhlberger, E., Naidu, R., Natsuaki, T., Navarro, J. A., Neriya, Y., Netesov, S., Neumann, G., Nowotny, N., Ochoa-Corona, F. M., Palacios, G., Pallandre, L., Pallas, V., Papa, A., Paraskevopoulou, S., Parrish, C. R., Pauvolid-Correa, A., Paweska, J. T., Perez, D. R., Pfaf, F., Plemper, R. K., Postler, T. S., Pozet, F., Radoshitzky, S. R., Ramos-Gonzalez, P. L., Rehanek, M., Resende, R. O., Reyes, C. A., Romanowski, V., Rubbenstroth, D., Rubino, L., Rumbou, A., Runstadler, J. A., Rupp, M., Sabanadzovic, S., Sasaya, T., Schmidt-Posthaus, H., Schwemmler, M., Seuberlich, T., Sharpe, S. R., Shi, M., Sironi, M., Smither, S., Song, J.-W., Spann, K. M., Spengler, J. R., Stenglein, M. D., Takada, A., Tesh, R. B., Tesikova, J., Thornburg, N. J., Tischler, N. D., Tomitaka, Y., Tomonaga, K., Tordo, N., Tsunekawa, K., Turina, M., Tzanetakis, I. E., Vaira, A. M., van den Hoogen, B., Vanmechelen, B., Vasilakis, N., Verbeek, M., von Bargen, S., Wada, J., Wahl, V., Walker, P. J., Whitfield, A. E., Williams, J., Wolf, Y., Yamasaki, J., Yanagisawa, H., Ye, G., Zhang, Y.-Z. & Okland, A. L., Dec 2022, In: *Archives of Virology*. 167, 12, p. 2857-2906 50 p.

### **Boid Inclusion Body Disease Is Also a Disease of Wild Boa Constrictors**

Alfaro-Alarcon, A., Hetzel, U., Smura, T., Baggio, F., Alberto Morales, J., Kipar, A. & Hepojoki, J., 26 Oct 2022, In: *Microbiology Spectrum*. 10, 5, 17 p., e0170522.

### **Persistent Reptarenavirus and Hartmanivirus Infection in Cultured Boid Cells**

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### **Clinical and Serological Findings of COVID-19 Participants in the Region of Makkah, Saudi Arabia**

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### **Neutralizing Antibody Titers in Hospitalized Patients with Acute Puumala Orthohantavirus Infection Do Not Associate with Disease Severity**

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### **New-onset type 1 diabetes in Finnish children during the COVID-19 pandemic**

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### **Short '1.2x Genome' Infectious Clone Initiates Kolmiovirid Replication in Boa constrictor Cells**

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### **2021 Taxonomic update of phylum Negamaviricota (Riboviria: Orthornavirae), including the large orders Bunyvirales and Mononegavirales**

Kuhn, J. H., Adkins, S., Agwanda, B. R., Al Kubrusli, R., Alkhovsky, S. V., Amarasinghe, G. K., Avsic-Zupanc, T., Ayllon, M. A., Bahl, J., Balkema-Buschmann, A., Ballinger, M. J., Basler, C. F., Bavari, S., Beer, M., Beijerman, N., Bennett, A. J., Bente, D. A., Bergeron, E., Bird, B. H., Blair, C. D., & 231 others Blasdel, K. R., Blystad, D-R., Bojko, J., Borth, W. B., Bradfute, S., Breyta, R., Briese, T., Brown, P. A., Brown, J. K., Buchholz, U. J., Buchmeier, M. J., Bukreyev, A., Burt, F., Buettner, C., Calisher, C. H., Cao, M., Casas, I., Chandran, K., Charrel, R. N., Cheng, Q., Chiaki, Y., Chiapello, M., Choi, I-R., Ciuffo, M., Clegg, J. C. S., Crozier, I., Dal Bo, E., de la Torre, J. C., de Lamballerie, X., de Swart, R. L., Debat, H., Dheilly, N. M., Di Cicco, E., Di Paola, N., Di Serio, F., Dietzgen, R. G., Digiaro, M., Dolnik, O., Drebot, M. A., Drexler, J. F., Dundon, W. G., Duprex, W. P., Durrwald, R., Dye, J. M., Easton, A. J., Ebihara, H., Elbeaino, T., Ergunay, K., Ferguson, H. W., Fooks, A. R., Forgia, M., Formenty, P. B. H., Franova, J., Freitas-Astua, J., Fu, J., Fuerl, S., Gago-Zachert, S., Gao, G. F., Garcia, M. L., Garcia-Sastre, A., Garrison, A. R., Gaskin, T., Gonzalez, J-P. J., Griffiths, A., Goldberg, T. L., Groschup, M. H., Guenther, S., Hall, R. A., Hammond, J., Han, T., Hepojoki, J., Hewson, R., Hong, J., Hong, N., Hongo, S., Horie, M., Hu, J. S., Hu, T., Hughes, H. R., Huettner, F., Hyndman, T. H., Ilyas, M., Jalkanen, R., Jiang, D., Jonson, G. B., Junglen, S., Kadono, F., Kaukinen, K. H., Kawate, M., Klempa, B., Klingstrom, J., Kobinger, G., Koloniuk, I., Kondo, H., Koonin, E. V., Krupovic, M., Kubota, K., Kurath, G., Laenen, L., Lambert, A. J., Langevin, S. L., Lee, B., Lefkowitz, E. J., Leroy, E. M., Li, S., Li, L., Li, J., Liu, H., Lukashevich, I. S., Maes, P., de Souza, W. M., Marklewitz, M., Marshall, S. H., Marzano, S-Y. L., Massart, S., McCauley, J. W., Melzer, M., Mielke-Ehret, N., Miller, K. M., Ming, T. J., Mirazimi, A., Mordecai, G. J., Muehlbach, H-P., Muehlberger, E., Naidu, R., Natsuaki, T., Navarro, J. A., Netesov, S. V., Neumann, G., Nowotny, N., Nunes, M. R. T., Olmedo-Velarde, A., Palacios, G., Pallas, V., Palyi, B., Papa, A., Paraskevopoulou, S., Park, A. C., Parrish, C. R., Patterson, D. A., Pauvolid-Correa, A., Paweska, J. T., Payne, S., Peracchio, C., Perez, D. R., Postler, T. S., Qi, L., Radoshitzky, S. R., Resende, R. O., Reyes, C. A., Rima, B. K., Luna, G. R., Romanowski, V., Rota, P., Rubbenstroth, D., Rubino, L., Runstadler, J. A., Sabanadzovic, S., Sall, A. A., Salvato, M. S., Sang, R., Sasaya, T., Schulze, A. D., Schwemmler, M., Shi, M., Shi, X., Shi, Z., Shimamoto, Y., Shirako, Y., Siddell, S. G., Simmonds, P., Sironi, M., Smaghe, G., Smither, S., Song, J-W., Spann, K., Spengler, J. R., Stenglein, M. D., Stone, D. M., Sugano, J., Suttle, C. A., Tabata, A., Takada, A., Takeuchi, S., Tchouassi, D. P., Teffer, A., Tesh, R. B., Thornburg, N. J., Tomitaka, Y., Tomonaga, K., Tordo, N., Torto, B., Towner, J. S., Tsuda, S., Tu, C., Turina, M., Tzanetakis, I. E., Uchida, J., Usugi, T., Vaira, A. M., Vallino, M., van den Hoogen, B., Varsani, A., Vasilakis, N., Verbeek, M., von Bargen, S., Wada, J., Wahl, V., Walker, P. J., Wang, L-F., Wang, G., Wang, Y., Wang, Y., Waqas, M., Wei, T., Wen, S., Whitfield, A. E., Williams, J. V., Wolf, Y. I., Wu, J., Xu, L., Yanagisawa, H., Yang, C., Yang, Z., Zerbini, F. M., Zhai, L., Zhang, Y-Z., Zhang, S., Zhang, J., Zhang, Z. & Zhou, X., Dec 2021, In: *Archives of Virology*. 166, 12, p. 3513-3566 54 p.

### **A subpopulation of arenavirus nucleoprotein localizes to mitochondria**

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### **Hantavirus infection-induced B cell activation elevates free light chains levels in circulation**

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### **Kinetics of neutralizing antibodies of covid-19 patients tested using clinical d614g, b.1.1.7, and b.1.351 isolates in microneutralization assays**

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### **A Generic, Scalable, and Rapid Time-Resolved Förster Resonance Energy Transfer-Based Assay for Antigen Detection—SARS-CoV-2 as a Proof of Concept**

Rusanen, J., Kareinen, L., Szivovicza, L., Ugurlu, H., Levanov, L., Jääskeläinen, A., Ahava, M. J., Kurkela, S., Saksela, K., Hedman, K., Vapalahti, O. & Hepojoki, J., 18 May 2021, In: mBio. 12, 3, 11 p., e00902-21.

### **Evaluation of three rapid lateral flow antigen detection tests for the diagnosis of SARS-CoV-2 infection**

Jääskeläinen, A. E., Ahava, M. J., Jokela, P., Szivovicza, L., Pohjala, S., Vapalahti, O., Lappalainen, M., Hepojoki, J. & Kurkela, S., Apr 2021, In: Journal of Clinical Virology. 137, 4 p., 104785.

### **Experimental Reptarenavirus Infection of Boa constrictor and Python regius**

Hetzel, U., Korzyukov, Y., Keller, S., Szivovicza, L., Pesch, T., Vapalahti, O., Kipar, A. & Hepojoki, J. M., Apr 2021, In: Journal of Virology. 95, 7, 18 p., e01968-20.

### **A 10-Minute "Mix and Read" Antibody Assay for SARS-CoV-2**

Rusanen, J., Kareinen, L., Levanov, L., Mero, S. M., Pakkanen, S. H., Kantele, A., Amanat, F., Krammer, F., Hedman, K., Vapalahti, O. & Hepojoki, J., Feb 2021, In: Viruses (Basel). 13, 2, 12 p., 143.

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Hepojoki, J., Strandin, T., Vaheri, A. & Lankinen, H., 2010, In: Journal of Virology. 84, p. 227-242 16 p.

### **Degradation and aggresome formation of the Gn tail of the apathogenic Tula hantavirus**

Wang, H., Strandin, T., Hepojoki, J., Lankinen, H. & Vaheri, A., 2009, In: Journal of General Virology. 90, 12, p. 2995-3001 7 p.

### **Hantaviruses and TNF-alpha act synergistically to induce ERK1/2 inactivation in Vero E6 cells**

Strandin, T., Hepojoki, J., Wang, H., Vaheri, A. & Lankinen, H., 2008, In: Virology Journal. 5, 110, 9 s

### **Improvement of binding of Puumala virus neutralization site resembling peptide with a second-generation phage library**

Heiskanen, T., Li, X-D., Hepojoki, J., Gustafsson, E., Lundkvist, Å., Vaheri, A. & Lankinen, H., Jun 2003, In: Protein Engineering. 16, 6, p. 443-450 8 p.

## **Activities**

### **8th European Meeting on Viral Zoonoses, St. Raphael, France**

Jussi Hepojoki (Speaker)  
22 Oct 2017 → 25 Oct 2017

### **Annual Finnish Virology Days, 2017, Jyväskylä, Finland**

Jussi Hepojoki (Speaker)  
14 Mar 2017 → 15 Mar 2017

### **Virus-cell interactions 2015, Seili, Finland**

Jussi Hepojoki (Speaker)  
17 Aug 2015 → 19 Aug 2015

### **Vetsuisse Faculty, University of Zürich**

Jussi Hepojoki (Visiting researcher)  
9 Nov 2014 → 5 Dec 2014

### **Virus-cell interactions 2014, Seili, Finland**

Jussi Hepojoki (Speaker)

18 Aug 2014 → 20 Aug 2014

**Saskia Keller**

Jussi Hepojoki (Host)

23 Jun 2014 → 13 Aug 2014

**7th European Meeting on Viral Zoonoses, St:Raphael, France**

Jussi Hepojoki (Speaker)

24 May 2014 → 27 May 2014

**University of Oxford**

Jussi Hepojoki (Visiting researcher)

9 Feb 2014 → 10 Feb 2014

**Annual Finnish Virology Days, 2014, Helsinki, Finland**

Jussi Hepojoki (Speaker: Presenter)

2014

**IX International conference on HFRS, HPS & hantaviruses, 2013, Beijing, China**

Jussi Hepojoki (Speaker: Presenter)

2013

**6th European Meeting on Viral Zoonoses, 2011, St. Raphaël, France**

Jussi Hepojoki (Speaker: Presenter)

2011

**Annual Finnish Virology Days, 2011, Jyväskylä, Finland**

Jussi Hepojoki (Speaker: Presenter)

2011

**The 10th Finnish Peptide Symposium, 2011, Tahkovuori, Finland**

Jussi Hepojoki (Speaker: Presenter)

2011

**Annual Finnish Virology Days, 2010, Turku, Finland**

Jussi Hepojoki (Speaker: Presenter)

2010

**5th European Meeting on Viral Zoonoses, 2009, St. Raphaël, France**

Jussi Hepojoki (Speaker: Presenter)

2009

**Max Planck Institute of Biochemistry**

Jussi Hepojoki (Visiting researcher)

2009

**Annual Finnish Virology Days / ESCV, Clinical Virology Annual Meeting, 2008, Saariselkä, Finland**

Jussi Hepojoki (Speaker: Presenter)

2008

**Annual Finnish Virology Days, 2006, Tampere, Finland**

Jussi Hepojoki (Speaker: Presenter)

2006

**GBF (Gesellschaft für Biotechnologische Forschung)**

Jussi Hepojoki (Visiting researcher)

10 Jul 2005 → 22 Jul 2005

**Nordic Viral Zoonoses Meeting, 2005, Öland, Sweden**

Jussi Hepojoki (Speaker: Presenter)

2005

**Projects**

**BIGMAC: Bioinspired inorganic nanoparticles-based mRNA antiviral vaccines**

Hepojoki, J. & Ojha, R. K.

Suomen Akatemia Projektilaskutus

01/09/2023 → 31/08/2027

**Erkon säätiö Hepojoki 2022-2027**

Hepojoki, J., Sander, W. J., Szirovicza, L. & Timin, E. A.

Jane ja Aatos Erkon säätiö

01/09/2022 → 31/08/2027

**Juselius, Hepojoki 2022-2026**

Hepojoki, J., Ekström, E. J., Sander, W. J. & Szirovicza, L.

Sigrid Juseliuksen Säätiö

01/09/2022 → 31/08/2026