

## **Development of primer-probe energy transfer real-time PCR for the detection and quantification of porcine circovirus type 2**

Balint, Adam; Tenk, Miklos; **Timmusk, Sirje** Acta veterinaria Hungarica 2009 / 3, p. 441-452  
[https://www.researchgate.net/publication/26698746\\_Development\\_of\\_Primer-Probe\\_Energy\\_Transfer\\_real-time\\_PCR\\_for\\_the\\_detection\\_and\\_quantification\\_of\\_porcine\\_circovirus\\_type\\_2](https://www.researchgate.net/publication/26698746_Development_of_Primer-Probe_Energy_Transfer_real-time_PCR_for_the_detection_and_quantification_of_porcine_circovirus_type_2)

**Dual ELISA using SARS-CoV-2 N protein produced in E. coli and CHO cells reveals epitope masking by N-glycosylation**  
**Rump, Airi; Risti, Robert; Kristal, Mai-Ly; Reut, Jekaterina; Sõritski, Vitali; Löökene, Aivar; Rüütel Boudinot, Sirje** Biochemical and biophysical research communications 2021 / p. 457–460 <https://doi.org/10.1016/j.bbrc.2020.11.060> [Journal metrics at Scopus](#)  
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Effect of RGS16 silencing on monocyte activation**

**Pahtma, Merlis; Saar, Regina; Suurväli, Jaanus; Cavaillon, Jean-Marc; Rüütel Boudinot, Sirje** Scandinavian journal of immunology 2011 / p. 363

## **Effect of RGS16 silencing on monocyte activation**

**Pahtma, Merlis; Saar, Regina; Suurväli, Jaanus; Cavaillon, Jean-Marc; Rüütel Boudinot, Sirje** 14th International Congress of Immunology (ICI2010) : August 22-27, 2010, Kobe, Japan 2010

## **Eosinophils role in melanoma progression**

**Teras, Roland Martin; Di Giovanni, Emilia; Rump, Airi; Truumees, Birgit; Putnik, Teele; Teras, Jüri; Rüütel Boudinot, Sirje** European journal of surgical oncology : Abstracts 2023 / p. e168 <https://doi.org/10.1016/j.ejso.2022.11.463>

## **Evolutionary origin of the P2X7 C-ter region : capture of an ancient ballast domain by a P2X4-Like gene in ancient jawed vertebrates**

**Rump, Airi; Smolander, Olli-Pekka; Rüütel Boudinot, Sirje; Kanellopoulos, Jean; Boudinot, Pierre** Frontiers in immunology 2020 / art. 113, 15 p. : ill <https://doi.org/10.3389/fimmu.2020.00113> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Experimental reproduction of postweaning multisystemic wasting syndrome (PMWS) in pigs in Sweden and Denmark with a Swedish isolate of porcine circovirus type 2**

Hasslung Wikström, Frida; Wallgren, P.; Ladekjær-Hansen, A.S.; Botner, A.; Nielsen, J.; Watrang, E.; Allan, Gordon; McNeilly, Francis; Ellis, J.; **Timmusk, Sirje**; Belak, K.; Segall, T.; Melin, L.; Berg, Mikael; Fossum, Caroline Veterinary microbiology 2005 / 1/2, p. 49-60 : ill <https://pubmed.ncbi.nlm.nih.gov/15737473/>

## **First Eastern European experience of isolated limb infusion for in-transit metastatic melanoma confined to the limb: Is it still an effective treatment option in the modern era?**

**Teras, Jüri; Kroon, Hidde M.; Thompson, John F.; Teras, Marina; Pata, Pille; Mägi, Andrus; Teras, Roland Martin; Rüütel Boudinot, Sirje** European journal of surgical oncology 2020 / p. 272-276 <https://doi.org/10.1016/j.ejso.2019.10.039> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Functional importance of RGS16 signaling in the activation of human monocytes**

**Suurväli, Jaanus; Pahtma, Merlis; Saar, Regina; Veide, Argo; Adib-Conquy, Minou; Cavaillon, Jean-Marc; Timmusk, Sirje** 2nd European Congress of Immunology : September 13-16, 2009, Berlin, Germany 2009 / ? p

## **Generation and characterization of a single-chain Fv antibody against Gli3, a hedgehog signaling pathway transcription factor**

**Laht, Silja; Meerits, Kati; Altroff, Harri; Faust, Helena; Tsanev, Robert; Kogerman, Priit; Järvekülg, Lilian; Paalme, Viuu; Valkna, Andres; Timmusk, Sirje** Hybridoma 2008 / 3, lk. 167-174

## **Generation and characterization of mouse monoclonal antibody 5E1 against human transcription factor GLI3**

**Hunt, Reet; Bragina, Olga; Drews, Monika; Kasak, Lagle; Timmusk, Sirje; Valkna, Andres; Kogerman, Priit; Järvekülg, Lilian** Hybridoma 2007 / 3, p. 131-138

## **Genetic analysis of PCV2 capsid protein sequences reveals two main groups of Estonian isolates**

**Timmusk, Sirje; Fossum, Caroline; Põdersoo, Diivi; Saar, Tiiu** Workshop No2 Porcine Circovirus : in 15th-16th May 2007 in Croatia : Sixth Framework programme (SSA) PCVD : towards improved food quality 2007 / ? p

## **Gripiviiruse epidemioloogia ja organismi immuunvastus**

**Järveld, Mari; Timmusk, Sirje** Eesti Arst 2010 / 1, lk. 21-30 : ill

## **Human peripheral blood eosinophils express high levels of the purinergic receptor P2X4**

**Paalme, Viuu; Rump, Airi; Mädo, Kati; Teras, Marina; Truumees, Birgit; Aitai, Helen; Ratat, Kristel; Teras, Jüri; Rüütel Boudinot, Sirje** Frontiers in immunology 2019 / art. 2074, 15 p. : ill <https://doi.org/10.3389/fimmu.2019.02074> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Involvement of RGS16 in PCV2 pathogenesis**

**Saaremäe, Merle; Pahtma, Merlis; Saar, Regina; Nutt, Anu; Rüütel Boudinot, Sirje** 6th International Symposium on Emerging and Re-emerging Pig Diseases : Barcelona, 12-15 June 2011 : proceedings 2011 / p. 84

### **K&V : küsimused-vastused : [immuunsuse tugevusest : vastab Sirje Rüütel Boudinot]**

**Rüütel Boudinot, Sirje** Tarkade Klubi 2010 / 10, lk. 6

### **Koroonast iga kandi pealt**

**Rüütel Boudinot, Sirje** Eesti Naine 2021 / lk. 67-71 : fot [https://www.ester.ee/record=b1072072\\*est](https://www.ester.ee/record=b1072072*est)  
<https://eestinaine.delfi.ee/artikkel/92535495/strong-koroonast-iga-kandi-pealt-strong>

### **Lawsonia intracellularis and porcine circovirus type-2 infection in Estonia**

Järveots, Tõnu; Saar, Tiit; Põdersoo, Diivi; **Rüütel Boudinot, Sirje** Polish journal of veterinary sciences 2016 / p. 291-301 : ill  
<https://doi.org/10.1515/pjvs-2016-0036>

### **Läbipõdenute COVID-i tõend peaks kehtima vähemalt 12 kuud**

**Rüütel Boudinot, Sirje**; Aab, Alar; Saarma, Kaari epl.delfi.ee 2021 / Lk. 2-3 "[Läbipõdenute COVID-i tõend peaks kehtima vähemalt 12 kuud](#)"

### **Melanoma markers and new treatment perspectives = Melanoomi markerid ja uued raviperspektiivid**

**Teras, Marina** 2020 <https://digikogu.taltech.ee/et/Item/2f47c955-8e96-4848-86e6-356deff7869c> Doktoritöö annab vihjeid, kuidas viirusega melanoomi ravida (novaator.err.ee, 7.09.2020)

### **A negative regulator of G proteins is targeted by a protein of single stranded DNA virus**

**Timmusk, Sirje**; Fossum, Caroline; Berg, Mikael 1st Joint Meeting of European National Societies of Immunology : Paris, Sept. 6-9, 2006 2006 / p. 182

### **Norepinephrine modulates proliferation and IFN-alpha production by porcine immune cells**

Merlot, Elodie; Hasslung Wikström, Frida; **Timmusk, Sirje**; Fuxler, Lisbeth; Fossum, Caroline 8th International Veterinary Immunology Symposium : Ouro Preto, Brazil, 15-19 August : abstracts 2007

### **Organismi immuunvastus gripiviirusele**

**Rüütel Boudinot, Sirje** Eesti Loodus 2009 / 12, lk. 18-22 : ill

### **Outbreak insights : dr Sirje Rüütel-Boudinot on how a survey of antibodies against pandemic a(H1N1)pdm09 revealed a wide spread of the "Swine flu" virus in Estonia after the 2009 outbreak**

**Rüütel Boudinot, Sirje**; Suurväli, Jaanus; Nutt, Anu; Tiivel, Toomas, geenit. Pan European networks : science & technology [Electronic resource] 2013 / p. 140-141 : phot <http://www.paneuropeannetworkspublications.com/>

### **P2X4 : a fast and sensitive purinergic receptor**

**Suurväli, Jaanus**; Boudinot, Pierre; Kanellopoulos, Jean; **Rüütel Boudinot, Sirje** Biomedical journal 2017 / p. 245-256 : ill  
<https://doi.org/10.1016/j.bj.2017.06.010>

### **P2X4 and P2X7 receptors in evolution, physiology, inflammation, and autoimmunity = P2X4 ja P2X7 retseptorid evolutsiooni, füsioloogia, põletiku ja autoimmuunsuse kontekstis**

**Rump, Airi** 2023 <https://doi.org/10.23658/taltech.53/2023> <https://digikogu.taltech.ee/et/Item/d5c7f19b-53ae-4010-9249-2aa0b04b898e>  
[https://www.ester.ee/record=b5645330\\*est](https://www.ester.ee/record=b5645330*est)

### **PCV-2 genotype definition and nomenclature**

Segales, J.; Olvera, A.; **Timmusk, Sirje** The veterinary record 2008 / 26, p. 867-868 <https://pubmed.ncbi.nlm.nih.gov/18587066/>

### **Porcine Circovirus Type 2 ORF3 protein induces apoptoses in melanoma cells**

**Teras, Marina**; Rump, Airi; Paalme, Viit; **Rüütel Boudinot, Sirje** 5th European Congress of Immunology : abstract book 2018 / p. 221 [https://www.eci2018.org/fileadmin/user\\_upload/documents/ECI\\_2018\\_Abstract\\_Book\\_web\\_21082018.pdf](https://www.eci2018.org/fileadmin/user_upload/documents/ECI_2018_Abstract_Book_web_21082018.pdf)

### **Porcine circovirus type 2 ORF3 protein induces apoptosis in melanoma cells**

**Viisileht, Edda**; Pahtma-Hall, Merlis; Rump, Airi; Paalme, Viit; Pata, Pille; **Rüütel Boudinot, Sirje** BMC cancer 2018 / art. 1237, 12 p. : ill <https://doi.org/10.1186/s12885-018-5090-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Porcine circovirus type 2 replicase binds the capsid protein and an intermediate filament like protein**

**Timmusk, Sirje**; Fossum, Caroline; Berg, Mikael Journal of general virology 2006 / 11, p. 3215-3223 : ill  
<https://pubmed.ncbi.nlm.nih.gov/17030855/>

### **Porcine proliferative enteropathy and Porcine Circovirus 2 infection in Estonia**

Järveots, Tõnu; Põdersoo, Diivi; Saar, Tiit; **Rüütel Boudinot, Sirje**; Lindjärv, Raivo Cutting Edge Pathology : Uppsala, 7.-10. September 2011 : abstracts 2011 / p. 128

#### **Presence of H1N1 Influenza 2009 within four Estonian swine herds**

**Suurväli, Jaanus; Põdersoo, Diivi; Saar, Regina; Nutt, Anu; Saaremäe, Merle; Sambrek, A.; Saar, Tiiu; Rüütel Boudinot, Sirje** 6th International Symposium on Emerging and Re-emerging Pig Diseases : Barcelona, 12-15 June 2011 : proceedings 2011 / p. 263

#### **PVA-VLP based melanoma peptide vaccine trial on mice : [poster abstract]**

**Papkina, Jekaterina; Paalme, Viuu; Pahtma, Merlis; Nutt, Anu; Viisileht, Edda; Roos, Kristine; Järvekülg, Lilian; Rüütel Boudinot, Sirje** Symposium "HCV animal models and vaccine development" : Thursday, 16th - Friday, 17th May 2013 Meriton Grand Conference and SPA Hotel, Tallinn, Estonia 2013 / p. 33

#### **R4 regulators of G protein signaling (RGS) identify an ancient MHC-linked synteny group**

**Suurväli, Jaanus; Robert, Jacques; Boudinot, Pierre; Rüütel Boudinot, Sirje** Immunogenetics 2013 / p. 145-156 : ill

#### **Regulator of G protein signalling 16 is a target for a porcine circovirus type 2 protein**

**Timmusk, Sirje; Merlot, Elodie; Lövgren, Tanja; Järvekülg, Lilian; Berg, Mikael; Fossum, Caroline** Journal of general virology 2009 / 10, p. 2425-2436 : ill

**Regulator of G protein signalling 16 (RGS16) : functions in immunity and genomic location in an ancient MHC-related evolutionarily conserved synteny group = G valkude signaaliülekanne regulaator 16 (RGS16) : osalus immuunvastuses ja genoomne asukoht ürgses MHC-seoselises evolutsiooniliselt konserveerunud sünteenses grupis**

**Suurväli, Jaanus** 2014 [https://www.ester.ee/record=b4439180\\*est](https://www.ester.ee/record=b4439180*est)

#### **RGS16 is involved in the TLR- mediated expression of proinflammatory cytokines and the receptors CD14 and C5aR**

**Suurväli, Jaanus; Saar, Regina; Pahtma, Merlis; Veide, A.; Adib-Conquy, Minou; Cavaillon, Jean-Marc; Rüütel Boudinot, Sirje** 14th International Congress of Immunology (ICI2010) : August 22-27, 2010, Kobe, Japan 2010

#### **RGS16 is involved in the TLR-mediated expression of proinflammatory cytokines and the receptors CD14 and C5aR**

**Suurväli, Jaanus; Saar, Regina; Saaremäe, Merle; Pahtma, Merlis; Nutt, Anu; Paalme, Viuu; Rüütel Boudinot, Sirje** Scandinavian journal of immunology 2011 / p. 366-367

#### **RGS16 restricts the pro-inflammatory response of monocytes**

**Suurväli, Jaanus; Pahtma, Merlis; Saar, Regina; Paalme, Viuu; Nutt, Anu; Tiivel, Toomas, geenit.; Saaremäe, Merle; Fitting, C.; Cavaillon, Jean-Marc; Rüütel Boudinot, Sirje** Scandinavian journal of immunology 2015 / p. 23-30 : ill

#### **Salajased viiruslevitajad. Pea pooled nakatunud võivad olla ainsagi sümptomita**

**Jõesaar, Tuuli** Eesti Päevaleht 2020 / Lk. 4-5 <https://dea.digar.ee/article/eestipaevaleht/2020/11/12/6.1>

#### **SexIdependent expression levels of VAV1 and P2X7 in PBMC of Multiple Sclerosis patients**

**Rump, Airi; Ratas, Kristel; Lepasepp, Tuuli Katarina; Suurväli, Jaanus; Smolander, OlliIPekka; GrossIPaju, Katrin; Toomsoo, Toomas; Kanellopoulos, Jean M.; Rüütel Boudinot, Sirje** Scandinavian journal of immunology 2023 / art. e13283, 15 p. : ill  
<https://doi.org/10.1111/sji.13283>

#### **Significant impact of the Rh blood group and gender on influenza infection in Estonia**

**Kärdi, Liina; Nutt, Anu; Suurväli, Jaanus; Siimut, Siim Erik; Põdersoo, Diivi; Saar, Tiiu; Tiivel, Toomas, geenit.; Rüütel Boudinot, Sirje** Proceedings of the Estonian Academy of Sciences 2016 / p. 195-204 : ill <http://dx.doi.org/10.3176/proc.2016.3.04>

#### **Spreading of influenza A (H1N1PANDEMIC09) among Estonian blood donors and swineherds during 2010/2011 and its link to gender and Rh D, C, c, E and e antigens : [poster abstract]**

**Kärdi, Liina; Nutt, Anu; Saaremäe, Merle; Suurväli, Jaanus; Põdersoo, Diivi; Saar, Tiiu; Tiivel, Toomas, geenit.; Rüütel Boudinot, Sirje** Symposium "HCV animal models and vaccine development" : Thursday, 16th - Friday, 17th May 2013 Meriton Grand Conference and SPA Hotel, Tallinn, Estonia 2013 / p. 41

#### **Structural and functional features of the P2X4 receptor : an immunological perspective**

**Kanellopoulos, Jean M.; Almeida-da-Silva, Cassio Luiz Coutinho; Rüütel Boudinot, Sirje; Ojcius, David M.** Frontiers in immunology 2021 / art. 645834, 21 p. : ill <https://doi.org/10.3389/fimmu.2021.645834> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Structure-dependent modulation of alpha interferon production by Porcine circovirus 2 oligodeoxyribonucleotide and CpG DNAs in porcine peripheral blood mononuclear cells**

**Hasslung Wikström, Frida; Meehan, Brian; Berg, Mikael; Timmusk, Sirje** Journal of virology 2007 / 10, p. 4919-4927

#### **Tehnikaülikooli teadlaste ravi muudab nahavähiga võitluse tõhusamaks [Võrguväljaanne]**

**Rüütel Boudinot, Sirje** novaator.err.ee 2020 / fot [Tehnikaülikooli teadlaste ravi muudab nahavähiga võitluse tõhusamaks](#)

#### **Temporal distribution of porcine circovirus 2 genogroups recovered from postweaning multisystemic wasting syndrome-affected and -nonaffected farms in Ireland and Northern Ireland**

Allan, Gordon; McNeilly, Francis; **Timmusk, Sirje** Journal of veterinary diagnostic investigation 2007 / p. 668-673

**The Estonian H1N1 influenza 2009 outbreak was highly underestimated**

**Saar, Regina**; Põdersoo, Diivi; Järvelaid, Mari; Tuubel, Linda; **Suurväli, Jaanus**; Nutt, Anu; **Saaremäe, Merle**; Saar, Tiiu; **Rüütel Boudinot, Sirje** Proceedings of the Estonian Academy of Sciences 2012 / p. 320-329 : ill

**The proto-MHC of placozoans, a region specialized in cellular stress and ubiquitination/proteasome pathways**

**Suurväli, Jaanus**; Jouneau, Luc; **Rüütel Boudinot, Sirje** The journal of immunology 2014 / p. 2891-2901 : ill