

**A novel function for a ubiquitous plant enzyme pectin methylesterase : the host-cell receptor for the tobacco mosaic virus movement**

Dorokhov, Yu.L.; Mäkinen, K.; Frolova, O.Yu.; **Merits, Andres**; Saarinen, J.; Kalkkinen, Nisse; Atabekov, J.G.; **Saarma, Mart** FEBS letters 1999 / p. 223-228

**Activities associated with the putative replication initiation protein of coconut foliar decay virus, a tentative member of the genus nanovirus**

**Merits, Andres**; Fedorkin, O.N.; Guo, D.; Kalinina, N.O.; Morozov, S.Y. Journal of general virology 2000 / p. 3099-3106

**Antibacterial and antiviral effects of Ag, Cu and Zn metals, respective nanoparticles and filter materials thereof against coronavirus SARS-CoV-2 and influenza A virus**

Kubo, Anna-Liisa; Rausalu, Kai; Savest, Natalja; Žusinaite, Eva; **Vasiliev, Grigory**; **Viirsalu, Mihkel**; **Plamus, Tiia**; **Krumme, Andres**; **Merits, Andres**; Bondarenko, Olesja Pharmaceuticals 2022 / art. 2549 : 19 p. : ill <https://doi.org/10.3390/pharmaceutics14122549>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Biochemical and genetic evidence for interactions between potato A potyvirus-encoded proteins P1 and P3 and proteins of the putative replication complex**

**Merits, Andres**; Guo, D.; **Järvekülg, Lilian**; **Saarma, Mart** Virology 1999 / p. 15-22

**Biological, serological and molecular differences among isolates of potato A potyvirus**

Rajamäki, M.; **Merits, Andres**; Rabenstein, Frank; **Andrejeva, Jelena** Phytopathology 1998 / p. 311-321

**Characterisation of VPg and the polyprotein processing of Cocksfoot mottle virus (genus Sobemovirus)**

Mäkinen, K.; Mäkeläinen, K.; Arshava, N.; **Tamm, Tiina**; **Merits, Andres**; **Truve, Erkki**; **Zavriev, S.**; **Saarma, Mart** Journal of general virology 2000 / p. 2783-2789

**Comparison of the complete sequences of five different isolates of potato virus A (PVA), genus Potyvirus**

Kekarainen, T.; **Merits, Andres**; Oruetebarria, J.; Rajamäki, M.-L.; Valkonen, J.P.T. Archives of virology 1999 / p. 2355-2366

**Comparison of the nucleotide sequences of the 3'-terminal regions of one aphid and two non-aphid transmissible isolates of potato A potyvirus**

**Andrejeva, Jelena**; **Merits, Andres**; Rabenstein, Frank; Puurand, Ülo; **Järvekülg, Lilian** Archives of virology 1996 / p. 1207-1219  
<https://pubmed.ncbi.nlm.nih.gov/8774682/>

**Complementation of the movement-deficient mutations in potato virus X : potyvirus coat protein mediates cell-to-cell trafficking of C-terminal truncation but not deletion mutant of potexvirus coat protein**

Fedorkin, N.O.; **Merits, Andres**; Lucchesi, Jimmy; Solov'yev, A.G.; **Saarma, Mart**; Morozov, S.Y.; Mäkinen, K. Virology 2000 / p. 31-42

**Design and validation of novel chikungunya virus protease inhibitors**

Das, Pratyush Kumar; Puusepp, Laura; Varghese, Finny S.; Utt, Age; Ahola, Tero; **Kananovich, Dzmitry**; **Lopp, Margus**; **Merits, Andres**; Karelson, Mati Antimicrobial agents and chemotherapy 2016 / p. 7382-7395 : ill <https://doi.org/10.1128/AAC.01421-16> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Elimination of phosphorylation sites of Semliki Forest virus replicase protein nsP3**

Vihinen, Helena; Ahola, Tero; Tuittila, Minna; **Merits, Andres**; Kääriäinen, Leevi Journal of biological chemistry 2001 / p. 5745-5752  
<http://dx.doi.org/10.1074/jbc.M006077200>

**Expression of fibrinolytic enzyme, lebetase, from Vipera lebetina snake venom by baculovirus expression**

Siigur, Ene; Tõnismägi, Külli; **Merits, Andres**; **Drews, Monika**; Siigur, Jüri Toxicon 1999 / p. 305

**Expression of prolebetase from Vipera lebetina by baculovirus system. Plasmogen activating activity of SF-S cell lysates**

Siigur, Ene; Tõnismägi, Külli; **Merits, Andres**; **Drews, Monika**; Siigur, Jüri Fibrinolysis & proteolysis 1998 / 1, p. 66

**Formation of the alphavirus replication complex**

Ahola, Tero; Salonen, Anne; Vasiljeva, Lidia; **Merits, Andres**; Kääriäinen, Leevi XIth International Congress of Virology 2002 / p. 91

**Fragment-based development of HCV protease inhibitors for the treatment of hepatitis C**

**Karelson, Mati**; **Dobchev, Dimitar**; **Karelson, Gunnar**; Tamm, Tarmo; Tamm, Kaido; Nikonov, Andrei; Mutso, Margit; **Merits, Andres** Current computer-aided drug design 2012 / p. 55-61 [https://www.researchgate.net/publication/221745366\\_Fragment-Based\\_Development\\_of\\_HCV\\_Protease\\_Inhibitors\\_for\\_the\\_Treatment\\_of\\_Hepatitis\\_C](https://www.researchgate.net/publication/221745366_Fragment-Based_Development_of_HCV_Protease_Inhibitors_for_the_Treatment_of_Hepatitis_C)

**Glycosylation of phytepsin and expression of dad1, dad2 and ost1 during onset of cell death in germinating barley scutella**

Lindholm, Päivi; Kuittinen, T.; Sorri, O.; Guo, D.; **Merits, Andres**; Törmäkangas, K.; Runeberg-Roos, Pia Mechanisms of development

**Host species-dependent and virus strain-dependent long-distance movement of potato A potyvirus**

**Andrejeva, Jelena; Merits, Andres;** Puurand, Ülo; Järvekülg, Lilian; Saarma, Mart; Valkonen, J.P.T. ICPP98 : 7th International Congress of Plant Pathology, Edinburgh, Scotland, 9-16 August 1998. Vol. 2, Offered papers, abstracts 1998 / paper 1.11.29 (1 p.)

**Identification of a novel function of the alphavirus capping apparatus. RNA 5'-triphosphatase activity of Nsp2**

Vasiljeva, L.; **Merits, Andres;** Auvinen, P.; Kääriäinen, L. Journal of biological chemistry 2000 / p. 17281-17287

**Identification of the genome-linked protein in virions of Potato virus A, with comparison to other members in genus Potyvirus**

Oruetxebarria, I.; Guo, D.; **Merits, Andres;** Mäkinen, K.; **Saarma, Mart;** Valkonen, J.P. Virus research 2001 / p. 103-112  
<https://www.sciencedirect.com/science/article/abs/pii/S0168170200002161>

**Molecular cloning, sequencing and homology studies of potato potyvirus A (PVA) helper component gene from aphid transmissible (AT) and non-aphid transmissible (NAT) isolates**

**Andrejeva, Jelena;** Merits, Andres; Kibe, Kristiina; Puurand, Ülo; Rabenstein, Frank; **Järvekülg, Lilian** International Symposium 75 Years of Phytopathological and Resistance Research at Aschersleben, 12-16 June, 1995, Aschersleben, Germany : proceedings, list of authors, list of participants 1995 / p. 51-54: ill

**Molecular cloning, sequencing and homology studies of potato virus A (PVA) helper component gene from aphid transmissible (AT) and non-aphid transmissible (NAT) isolates**

**Andrejeva, Jelena;** Merits, Andres; Kibe, Kristiina; Puurand, Ülo; Rabenstein, Frank; **Järvekülg, Lilian** International Symposium 75 Years of Phytopathological and Resistance Research at Aschersleben, 12-16 June, 1995, Aschersleben, Germany : programme, abstracts, list of participants 1995 / p. P3

**Novel analogues of the Chikungunya virus protease inhibitor: molecular design, synthesis, and biological evaluation**

Ivanova, Larisa; Rausalu, Kai; **Ošeka, Maksim; Kananovich, Dzmitry;** Žusinaite, Eva; Tammiku-Taul, Jaana; **Lopp, Margus;** Merits, Andres; Karelson, Mati ACS omega 2021 / p. 10884–10896 <https://doi.org/10.1021/acsomega.1c00625> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Phosphorylation down-regulates the RNA binding function of the coat protein of potato virus A**

Ivanov, K.I.; Puustinen, P.; **Merits, Andres;** **Saarma, Mart;** Mäkinen, K. Journal of biological chemistry 2001 / 17, p. 13530-13540 : ill  
<https://pubmed.ncbi.nlm.nih.gov/11152464/>

**Phosphorylation sites of Semliki Forest virus NSP3 and role of phosphorylation in virus replication**

Vihinen, Helena; Saarinen, Juha; Ahola, Tero; **Merits, Andres;** Kääriäinen, Leevi 11th International Congress of Virology : Sydney, 1999 1999 / p. 92

**Polypurine (A)-rich sequences promote crosskingdom conservation of internal ribosome entry**

Dorokhov, Y.L.; **Merits, Andres** Proceedings of the National Academy of Sciences of the USA 2002 / 8, p. 5301-5306  
<https://www.pnas.org/doi/10.1073/pnas.082107599>

**Postimehe analüüs: see ei lõppe veel niipea**

Maran, Kaur Postimees 2020 / Lk. 14-15 : ill [https://www.ester.ee/record=b1072778\\*est](https://www.ester.ee/record=b1072778*est) **Postimehe analüüs: see ei lõppe veel niipea**

**Potyvirus helper component-proteinase and coat protein (CP) have coordinated functions in virus-host interactions and the same CP motif affects virus transmission and accumulation**

Andrejeva, Jelena; Puurand, Ülo; **Merits, Andres;** Rabenstein, Frank; **Järvekülg, Lilian;** Valkonen, J.P.T. Journal of general virology 1999 / p. 1133-1139 [https://www.researchgate.net/publication/12942693\\_Potyvirus\\_helper\\_component-proteinase\\_and\\_coat\\_protein\\_CP\\_have\\_coordinated\\_functions\\_in\\_virus-host\\_interactions\\_and\\_the\\_same\\_CP\\_motif\\_affects\\_virus\\_transmission\\_and\\_accumulation](https://www.researchgate.net/publication/12942693_Potyvirus_helper_component-proteinase_and_coat_protein_CP_have_coordinated_functions_in_virus-host_interactions_and_the_same_CP_motif_affects_virus_transmission_and_accumulation)

**Proteolytic processing of potyviral proteins and polyprotein processing intermediates in insect and plant cells**

**Merits, Andres;** Rajamäki, M.-L.; **Saarma, Mart** Journal of general virology 2002 / 5, p. 1211-1221 : ill  
<https://pubmed.ncbi.nlm.nih.gov/11961277/>

**Proteolytic processing of Semliki Forest virus-specific non-structural polyprotein by nsP2 protease**

**Merits, Andres;** Vasiljeva, Lidia; Ahola, Tero; Kääriäinen, Leevi; Auvinen, Petri Journal of general virology 2001 / p. 765-773 : ill  
<https://dx.doi.org/10.1099/0022-1317-82-4-765>

**Regulation of -1 ribosomal frameshifting directed by cocksfoot mottle sobemovirus genome**

Lucchesi, Jimmy; Mäkeläinen, K.; **Merits, Andres;** **Tamm, Tiina;** Mäkinen, K. European journal of biochemistry 2000 / p. 3523-3529

**RNA binding properties of potato A potyvirus encoded structural and non-structural proteins**

**Merits, Andres; Saarma, Mart** ICPP98 : 7th International Congress of Plant Pathology, Edinburgh, Scotland, 9-16 August 1998. Vol. 2, Offered papers, abstracts 1998 / paper 1.11.3 (1 p.)

**RNA interference-guided targeting of hepatitis C virus replication with antisense locked nucleic acid-based oligonucleotides containing 8-oxo-dG modifications**

Mutso, Margit; Nikonov, Andrei; Pihlak, Arno; Žusinaite, Eva; Viru, Liane; Selyutina, Anastasia; **Reintamm, Tõnu; Kelve, Merike**; Saarma, Mart; Karelson, Mati; Merits, Andres PLoS ONE 2015 / p. 1-25 : ill <https://doi.org/10.1371/journal.pone.0128686> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Self-association and mapping of interaction domains of the helper component proteinase of potato A potyvirus**

Guo, D.; **Merits, Andres; Saarma, Mart** Journal of general virology 1999 / p. 1127-1131

**Site-specific protease activity of the carboxyl-terminal domain of Semliki Forest virus replicase protein nsP2**

Vasiljeva, L.; Valmu, L.; Kääriäinen, L.; **Merits, Andres** Journal of biological chemistry 2001 / p. 30786-30793  
<https://pubmed.ncbi.nlm.nih.gov/11410598/>

**Studies of potato viruses : antigenic analysis, structure, transmission and detection**

**Järvekülg, Lilian; Andrejeva, Jelena**; Merits, Andres; Kibe, Kristiina; Raudsepp, Raul; Puurand, Ülo; Rabenstein, Frank; Saarma, Mart International Symposium 75 Years of Phytopathological and Resistance Research at Aschersleben, 12-16 June, 1995, Aschersleben, Germany : proceedings, list of authors, list of participants 1995 / p. 108-111: ill

**Studies of potato viruses : antigenic analysis, structure, transmission and detection**

**Järvekülg, Lilian; Andrejeva, Jelena**; Merits, Andres; Kibe, Kristiina; Raudsepp, Raul; Puurand, Ülo; Rabenstein, Frank; Saarma, Mart International Symposium 75 Years of Phytopathological and Resistance Research at Aschersleben, 12-16 June, 1995, Aschersleben, Germany : programme, abstracts, list of participants 1995 / p. 1

**Study of the vector-transmission mechanism of potato virus A**

**Järvekülg, Lilian**; Merits, Andres; Kibe, Kristiina; **Andrejeva, Jelena** VIth International Conference "Frontiers in Biochemistry and Molecular Biology the Legacy of Andrey Belozersky", Moscow, Russia, Dec. 18-23, 1995 1995 / 1 I

**Subcellular localization of five potato virus A proteins**

**Truve, Erkki; Sarmiento Guerin, Maria Cecilia**; Hunt, R.; **Merits, Andres; Paves, Heiti; Järvekülg, Lilian** Plant molecular biology reporter 2000 / p. S30-44

**Subcellular localization of five PVA proteins in tobacco protoplasts**

**Sarmiento Guerin, Maria Cecilia**; Hunt, R.; **Merits, Andres; Paves, Heiti; Järvekülg, Lilian; Truve, Erkki** American Society for Virology Scientific Program and Abstracts : 19th Annual Meeting : Colorado State University, Fort Collins, Colorado, July 8-12, 2000 2000 / p. 92

**Subcellular localization of five PVA proteins in tobacco protoplasts**

**Sarmiento Guerin, Maria Cecilia**; Hunt, R.; **Merits, Andres; Paves, Heiti; Järvekülg, Lilian; Truve, Erkki** 5th Congress of the European Foundation for Plant Pathology : Taormina-Giardini-Naxos, 2000 2000 / p. 16

**Synthesis and biological activity of bimorpholine and its carbanucleoside**

**Ausmees, Kerti**; Selyutina, Anastasia; **Kütt, Kristel; Lippur, Kristin**; Pehk, Tõnis; **Lopp, Margus**; Žusinaite, Eva; Merits, Andres; **Kanger, Tõnis** Nucleosides, nucleotides and nucleic acids 2011 / p. 897-907  
<https://www.tandfonline.com/doi/full/10.1080/15257770.2011.621919>

**Synthesis of 2,2'-bimorpholines and their biological activity**

**Lippur, Kristin**; Merits, Andres; **Lopp, Margus; Kanger, Tõnis** Program and abstracts : BOS 2010 International Conference on Organic Synthesis : Riga, Latvia, June 27-30, 2010 2010 / p. ?

**Synthesis of novel acyclic nucleoside analogues with anti-retroviral activity**

**Paju, Anne; Päre, M.**; Selyutina, Anastasia; Žusinaite, Eva; Merits, Andres; **Pehk, Tõnis**; Siirde, Kaarel; **Müürisepp, Aleksander-Mati; Kailas, Tiiu; Lopp, Margus** Nucleosides, nucleotides and nucleic acids 2010 / 9, p. 707-720  
<https://www.tandfonline.com/doi/pdf/10.1080/15257770.2010.501776>

**The complete nucleotide sequence of the ryegrass mosaic potyvirus indicates that it is a recombinant between members of two different genera in the family Potyviridae**

Schubert, J.; Fauquet, C.; **Merits, Andres**; Rabenstein, Frank Zeitschrift für Pflanzenkrankheiten und Pflanzenschutz 1999 / p. 392-404 <https://www.jstor.org/stable/43216179?seq=1>

**The structure of GFR[alfa]1 domain 3 reveals new insights into GDNF binding and RET activation**

Leppänen, V.M.; Bespalov, Maxim M.; Runeberg-Roos, Pia; Puurand, Ülo; **Merits, Andres; Saarma, Mart**; Goldman, A. EMBO journal 2004 / 7, p. 1452-1462 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC391078/>

**3' terminal sequence analysis and homologies for two members of genus Rymovirus (Potyviridae)**

Merits, Andres; **Andrejeva, Jelena**; Kibe, Kristiina; Rabenstein, Frank; Proll, Eckhard; **Järvekülg, Lilian** International Symposium 75

Years of Phytopathological and Resistance Research at Aschersleben, 12-16 June, 1995, Aschersleben, Germany : proceedings, list of authors, list of participants 1995 / p. 120-123: ill

### **3' terminal sequence analysis and homologies for two members of genus Rymovirus (Potyviridae)**

Merits, Andres; **Andrejeva, Jelena**; Kibe, Kristiina; Rabenstein, Frank; Proll, Eckhard; **Järvekülg, Lilian** International Symposium 75 Years of Phytopathological and Resistance Research at Aschersleben, 12-16 June, 1995, Aschersleben, Germany : programme, abstracts, list of participants 1995 / p. P18

### **Vector transmissibility of plant viruses**

**Järvekülg, Lilian**; Merits, Andres; **Andrejeva, Jelena** BIOBALT '96 : Biotechnology in Estonia, Latvia and Lithuania : International Workshop, 19-20 April, 1996, Tartu, Estonia : abstract book 1996 / p. 39

### **Vector transmissibility of plant viruses**

**Järvekülg, Lilian**; Merits, Andres; **Andrejeva, Jelena** Eesti teadlaste kongress, 11.-15. augustini 1996. a. Tallinnas : ettekannete kokkuvõtted 1996 / lk. 159 [https://www.ester.ee/record=b1052731\\*est](https://www.ester.ee/record=b1052731*est)

### **Virus-specific capping of tobacco mosaic virus RNA : methylation of GTP prior to formation of covalent complex p126-m7GMP**

**Merits, Andres**; Kettunen, Reetta; Mäkinen, Kristiina; Lampio, Anja; Auvinen, Petri; Kääriäinen, Leevi; Ahola, Tero FEBS letters 1999 / p. 45-48 [http://dx.doi.org/10.1016/S0014-5793\(99\)00856-X](http://dx.doi.org/10.1016/S0014-5793(99)00856-X)

### **Virus-specific mRNA capping enzyme encoded by hepatitis E virus**

Magden, Julia; Takeda, Naokazu; Li, Tiancheng; Auvinen, Petri; Ahola, Tero; Miyamura, Tatsuo; **Merits, Andres**; Kääriäinen, Leevi Journal of virology 2001 / p. 6249-6255 <http://dx.doi.org/10.1128/JVI.75.14.6249-6255.2001>

### **Vpg, coat protein and five non-structural proteins of potato A potyvirus bind RNA in a sequence-unspecific manner**

**Merits, Andres**; Deyin, G.; **Saarma, Mart** Journal of general virology 1998 / p. 3123-3127