

## **ABCE proteins in plants**

**Jakobson, Liina; Möttus, Jelena; Nigul, Lenne; Smolander, Olli-Pekka; Truve, Erkki; Sarmiento Guerin, Maria Cecilia** 1st PlantEd Conference Plant Genome Editing - State of the Art, University of Novi Sad, Central Building, 5-7 November 2019 : proceedings 2019 / p. 49 <https://plantgenomeediting.eu/wp-content/uploads/Planted-Book-of-Abstracts-Novu-Sad-2019.pdf>

## **ABCE proteins' role in RNA silencing suppression and their evolution = ABCE valkude roll RNA vaigistamise supressioonis ja nende evolutsioon**

**Möttus, Jelena** 2024 <https://doi.org/10.23658/taltech.43/2024> <https://digikogu.taltech.ee/et/Item/fea618c9-0f5a-4bd5-b867-c36ab775f6f1>  
[https://www.ester.ee/record=b5694239\\*est](https://www.ester.ee/record=b5694239*est)

## **ABCE1 is a highly conserved RNA silencing suppressor**

**Kärblane, Kairi; Gerassimenko, Jelena; Nigul, Lenne; Truve, Erkki; Sarmiento Guerin, Maria Cecilia** NordForsk C. elegans Network Meeting 2013 : Denmark, March 8-10 2013 2013

## **ABCE1 is a highly conserved RNA silencing suppressor**

**Kärblane, Kairi; Gerassimenko, Jelena; Nigul, Lenne; Piirsoo, Alla; Smialowska, Agata; Vinkel, Kadri; Kylsten, Per; Ekwall, Karl; Swoboda, Peter; Truve, Erkki; Sarmiento Guerin, Maria Cecilia** EMBO/EMBL Symposium The Complex Life of mRNA : 5-8 October 2014, EMBL Heidelberg, Germany 2014 / p. 292

## **ABCE1 is a highly conserved RNA silencing suppressor : [journal article]**

**Kärblane, Kairi; Gerassimenko, Jelena; Nigul, Lenne; Piirsoo, Alla; Smialowska, Agata; Vinkel, Kadri; Kylsten, Per; Ekwall, Karl; Swoboda, Peter; Truve, Erkki; Sarmiento Guerin, Maria Cecilia** PLoS ONE 2015 / p. 1-17 : ill  
<https://doi.org/10.1371/journal.pone.0116702> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **ALMT-independent guard cell R-type anion currents**

**Jaslan, Justyna; Marten, Irene; Jakobson, Liina; Arjus, Triinu; Deeken, Rosalia; Sarmiento Guerin, Maria Cecilia; De Angeli, Alexis; Brosche, Mikael; Kollist, Hannes; Hedrich, Rainer** New phytologist 2023 / p. 2225-2234 <https://doi.org/10.1111/nph.19124> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **AtRLI2 is an endogenous suppressor of RNA silencing**

**Sarmiento Guerin, Maria Cecilia; Nigul, Lenne; Kazantseva, Jekaterina; Buschmann, Marju; Truve, Erkki** Plant molecular biology 2006 / 1/2, p. 153-163 <https://link.springer.com/article/10.1007/s11103-005-0001-8>

## **Cocksfoot mottle virus : target for dsRNA-based vaccination in monocots?**

**Ilau, Birger; Olsper, Allan; Sarmiento Guerin, Maria Cecilia; Truve, Erkki** COST FA0806 WGs & MC meeting : book of abstracts : 3-5 September 2012, Ljubljana, Slovenia 2012 / p. 21

## **Cocksfoot mottle virus coat protein is dispensable for the systemic infection**

**Olsper, Allan; Kamsol, Kristjan; Sarmiento Guerin, Maria Cecilia; Gerassimenko, Jelena; Truve, Erkki** Virology journal 2014 / art. 19, 10 p. : ill <https://doi.org/10.1186/1743-422X-11-19> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Cocksfoot mottle virus coat protein is dispensable for the systemic infection and suppresses RNA silencing**

**Olsper, Allan; Kamsol, Kristjan; Gerassimenko, Jelena; Truve, Erkki; Sarmiento Guerin, Maria Cecilia** Green viruses, from gene to landscape : Embo workshop : 7-11 September 2013, Hyères-les-Palmiers, France : programme and abstracts book 2013 / p. 86 <https://pubmed.ncbi.nlm.nih.gov/24495467/>

## **Cocksfoot mottle virus P1 suppresses RNA silencing in Nicotiana benthamiana and Nicotiana tabacum**

**Sarmiento Guerin, Maria Cecilia; Gomez, Eva; Meier, Merike; Kavanagh, Tony; Truve, Erkki** Virus research 2007 / 1, p. 95-99 <https://pubmed.ncbi.nlm.nih.gov/16971015/>

## **CRISPR/Cas-mediated plant genome editing : outstanding challenges a decade after implementation**

**Cardi, Teodoro; Murovec, Jana; Bakhsh, Allah; Boniecka, Justyna; Bruegmann, Tobias; Bull, Simon E.; Eeckhaut, Tom; Fladung, Matthias; Galovic, Vladislava; Linkiewicz, Anna; Lukan, Tjaša; Mafra, Isabel; Michalski, Krzysztof; Kavas, Musa; Nicolina, Alessandro; Nowakowska, Justyna; Sagi, Laszlo; Sarmiento Guerin, Maria Cecilia; Yildirim, Kubilay; Zlatkovic, Milica; Hensel, Goetz; Van Laere, Katrijn** Trends in plant science 2023 / p. 1144-1165 <https://doi.org/10.1016/j.tplants.2023.05.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Different viral RNA silencing suppressors have different effects on virus infection in two Nicotiana species**

**Siddiqui, Shahid Aslam; Sarmiento Guerin, Maria Cecilia; Kiisma, Mariliis; Koivumäki, Satu; Lemmetty, Anne; Truve, Erkki; Lehto, Kirsi** European Plant Science Organisation 4th EPSO Conference "Plants for Life" : Toulon (Côte d'Azur), France : 22-26 June 2008 2008 / p. 146

## **Effects of viral RNA silencing suppressors on tobacco ringspot virus infection in two Nicotiana species**

**Siddiqui, Shahid Aslam; Sarmiento Guerin, Maria Cecilia; Kiisma, Mariliis; Koivumäki, Satu; Lemmetty, Anne; Truve, Erkki; Lehto, Kirsi** Keystone Symposia "RNAi, microRNA and non-coding RNA" : Whistler, Canada, 25-30 March 2008 2008 / p. 152

<https://pubmed.ncbi.nlm.nih.gov/18474567/>

### **Effects of viral silencing suppressors on tobacco ringspot virus infection in two *Nicotiana* species**

Siddiqui, Shahid Aslam; **Sarmiento Guerin, Maria Cecilia**; **Kiisma, Mariliis**; Koivumäki, Satu; Lemmetty, Anne; **Truve, Erkki**; Lehto, Kirsi Journal of general virology 2008 / p. 1502-1508 : ill <https://pubmed.ncbi.nlm.nih.gov/18474567/>

### **An endogenous suppressor of RNA silencing in *Arabidopsis thaliana***

**Gerassimenko, Jelena**; **Nigul, Lenne**; **Truve, Erkki**; **Sarmiento Guerin, Maria Cecilia** What future for RNAi-based products : RNAi modified plants or spray products : 3rd iPLANTA Conference : book of abstracts : posters 2019 / p. 15 [iPlanta...](#)

### **An epigenetic alphabet of crop adaptation to climate change : review article**

Guarino, Francesco; Cicatelli, Angela; Castiglione, Stefano; Agius, Dolores R.; Orhun, Gul Ebrü; Fragkostefanakis, Sotirios; Leclercq, Julie; Dobranszki, Judit; **Sõmera, Merike**; **Sarmiento Guerin, Maria Cecilia** Frontiers in Genetics 2022 / art. 818727

<https://doi.org/10.3389/fgene.2022.818727> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Expression of RNA silencing suppressors in heterologous systems**

**Sarmiento Guerin, Maria Cecilia**; **Kärblane, Kairi**; Lehto, Kirsi; **Truve, Erkki** Keystone Symposium "The Biology of RNA Silencing" : Victoria, BC, April 25-30, 2009 2009 / p. 102

### **Gene silencing in tobacco protoplasts**

**Nigul, Lenne**; **Sarmiento Guerin, Maria Cecilia**; **Truve, Erkki** Biology of Plant-Microbe Interactions : proceedings of the 9th International Congress on Molecular Plant-Microbe Interactions, Amsterdam, the Netherlands, July 25-30, 1999 2000 / p. 140-141

### **Gene silencing in tobacco protoplasts**

**Sarmiento Guerin, Maria Cecilia**; **Nigul, Lenne**; Aader, Ants; Kuusksalu, Anne; **Truve, Erkki** 11th International Congress of Virology : Sydney, 1999 1999 / p. 163

### **Gene silencing suppression in plants**

**Sarmiento Guerin, Maria Cecilia** VI Baltic Genetics Congress : September 30 - October 3, 2015, Institute of Molecular and Cell Biology, Tartu, Estonia : book of abstracts 2015 / 1 p

### **Genomic organization and gene functions of sobemoviruses**

**Meier, Merike**; **Sarmiento Guerin, Maria Cecilia**; **Olsper, Allan**; **Paves, Heiti**; **Truve, Erkki** XIV International Congress of Virology : Istanbul, 10-15 August, 2008 2008 / p. 213-214

### **HsRLI is the first human endogenous suppressor of RNA silencing identified**

**Kärblane, Kairi**; **Gerassimenko, Jelena**; **Maloverjan, Alla**; Smialowska, Agata; **Nigul, Lenne**; **Truve, Erkki**; **Sarmiento Guerin, Maria Cecilia** Keystone Symposia : Mechanism and Biology of Silencing. Monterey, CA 2011

### **ICTV Virus Taxonomy Profile : Solemoviridae 2021**

**Sõmera, Merike**; Fargette, Denis; Hebrard, Eugenie; **Sarmiento Guerin, Maria Cecilia** Journal of General Virology 2021 / art. 001707 <https://doi.org/10.1099/jgv.0.001707> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Improving abiotic stress tolerance of forage grasses - prospects of using genome editing**

**Sustek-Sanchez, Ferenz**; Rognli, Odd Arne; Rostoks, Nils; **Sõmera, Merike**; Jaškune, Kristina; Kovi, Mallikarjuna Rao; Statkevičiute, Gražina; **Sarmiento Guerin, Maria Cecilia** Frontiers in plant science 2023 / art. 1127532

<https://doi.org/10.3389/fpls.2023.1127532> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Improving perennial ryegrass adaptability and resilience (EditGrass4Food) : [poster presentation]**

**Sarmiento Guerin, Maria Cecilia**; Jaškune, K.; Rognli, O.A.; Rostoks, N. 2nd PlantEd conference : Plant genome editing - the wide range of applications : 20-22 Sept 2021, Lecce, Italy : book of abstracts 2021 / p. 74 <https://doi.org/10.48257/ACLE-001>

### **Investigating the RNA silencing suppressor AtRLI2 of *Arabidopsis thaliana***

**Gerassimenko, Jelena**; **Nigul, Lenne**; **Truve, Erkki**; **Sarmiento Guerin, Maria Cecilia** RNAi: the future of crosstalk: focus on RNAi Technology (WG1) and Applications (WG2): iPLANTA COST Action CA15223 : book of abstract 2018 / p. 59

<http://iplanta.univpm.it/sites/iplanta.univpm.it/files/POZNAN2nd%20iPLANTA%20conference%20Poznan%202018%20Book%20of%20abstract.pdf>

### **Kommentaari raportile „Genome Editing for Crop Improvement“ (Genoomi täppismuutmine põllukultuuri parendamiseks).**

**ALLEA Symposium Report. October 2020**

**Sarmiento Guerin, Maria Cecilia** Eesti Teaduste Akadeemia veebileht 2020 / 1 lk <https://www.akadeemia.ee/wp-content/uploads/2020/12/kommentaari-final.pdf>

### **Koroonatideks kogutud materjalid leidub väärt infot ka teiste haigustekitajate kohta [Võrguväljaanne]**

Ojamets, Indrek novaator.err.ee 2020 / fot [Koroonatideks kogutud materjalid leidub väärt infot ka teiste haigustekitajate kohta](#)

**Lõunamaalase külm maal : [peruulanna Maria Cecilia Sarmiento Guerin'i elust Eestis ja doktoriõpingutest TTÜs :**

vestlus]

**Sarmiento Guerin, Maria Cecilia**; Pajuste, Margo Postimees 2001 / lk. 8 : ill., portr (Arter)

#### **Minimal set of genes required for sobemovirus replication**

Olsper, Allan; **Kamsol, Kristjan; Nummert, Grete; Sarmiento Guerin, Maria Cecilia; Sõmera, Merike; Truve, Erkki** VI Baltic Genetics Congress : September 30 - October 3, 2015, Institute of Molecular and Cell Biology, Tartu, Estonia : book of abstracts 2015 / 1 p

#### **Mutational analysis of Arabidopsis thaliana ABCE2 identifies important motifs for its RNA silencing suppressor function**

**Möttus, Jelena; Maiste, Siim; Eek, Priit; Truve, Erkki; Sarmiento Guerin, Maria Cecilia** Plant Biology 2021 / p. 21-31 : ill  
<https://doi.org/10.1111/plb.13193> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Mutational analysis of Arabidopsis thaliana RNase L inhibitor [Online resource]**

**Gerassimenko, Jelena; Maiste, Siim; Truve, Erkki; Sarmiento Guerin, Maria Cecilia** Environmental adaptation : from molecules to the planet : the Estonian Centre of Excellence in Environmental Adaptation ENVIRON. Final conference : October 1-3, 2015, Dorpat Conference Centre, Tartu, Estonia : abstract book 2015 / p. 32-33  
[http://environ.emu.ee/userfiles/environ/Abstract\\_Book\\_ENVIRON%20final%20conference%202015.pdf](http://environ.emu.ee/userfiles/environ/Abstract_Book_ENVIRON%20final%20conference%202015.pdf)

#### **Nobeli keemiapreemia läks geenikäärde loojatele**

Oidermaa, Jaan-Juhan; Ojams, Indrek novaator.err.ee 2020 / 1 lk. : ill [Nobeli keemiapreemia läks geenikäärde loojatele](#)

#### **Overview on sobemoviruses and a proposal for the creation of the family sobemoviridae**

**Sõmera, Merike; Sarmiento Guerin, Maria Cecilia; Truve, Erkki** Viruses 2015 / p. 3076-3115 : ill <https://doi.org/10.3390/v7062761>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Peruulanna otsib Eestis vähivavimit : [intervjuu Maria Cecilia Sarmiento Gueriniga]**

**Sarmiento Guerin, Maria Cecilia**; Pärt, Villu Tarkade Klubi 2009 / 7, lk. 38-41 : portr

#### **Phenotypes and functional effects caused by various viral RNA silencing suppressors in transgenic Nicotiana benthamiana and N.tabacum**

Siddiqui, Shahid Aslam; **Sarmiento Guerin, Maria Cecilia; Truve, Erkki**; Lehto, Harry; Lehto, Kirsi Molecular plant-microbe interactions 2008 / 2, p. 178-187 : ill <https://apsjournals.apsnet.org/doi/pdf/10.1094/MPMI-21-2-0178>

#### **Phylogenetic insight into ABCE gene subfamily in plants**

**Jakobson, Liina; Möttus, Jelena**; Suurväli, Jaanus; **Sõmera, Merike; Tarassova, Jemilia**; Nigul, Lenne; Smolander, Olli-Pekka Aukusti; **Sarmiento Guerin, Maria Cecilia** Frontiers in Genetics 2024 / art. 1408665 <https://doi.org/10.3389/fgene.2024.1408665>

#### **Revisiting the origins of the Sobemovirus genus: A case for ancient origins of plant viruses**

Ghafari, Mahan; **Sõmera, Merike; Sarmiento Guerin, Maria Cecilia**; Niehl, Annette; Hebrard, Eugenie; Tsoleridis, Theocharis; Ball, Jonathan; Moury, Benoit; Lemey, Philippe; Katzourakis, Aris; Fargette, Denis PLoS Pathogens 2024 / art. e1011911  
<https://doi.org/10.1371/journal.ppat.1011911>

#### **RLI as RNA silencing suppressor in Nicotiana benthamiana [Electronic resource]**

**Gerassimenko, Jelena; Nigul, Lenne**; Romet, Marina; **Truve, Erkki; Sarmiento Guerin, Maria Cecilia** Scandinavian Plant Physiology Society 7th PhD Student Conference : 12-15 September 2012 Laulasmaa Estonia : abstract book 2012 / p. 16

#### **RNA silencing suppressors of plant viral and endogenous origin expressed in mammalian cells**

**Kärblane, Kairi**; Pata, Pille; **Pata, Illar; Truve, Erkki; Sarmiento Guerin, Maria Cecilia** Keystone Symposia "RNA Silencing Mechanisms in Plants" : Feb 21-26, 2010, Santa Fe, New Mexico, USA 2010 / p. 87

#### **Sequencing and biological characterization of historical cynosurus mottle virus isolates from Germany**

**Frei, Martin; Sarmiento Guerin, Maria Cecilia; Kärblane, Kairi**; Niehl, Annette; **Sõmera, Merike** Archives of virology 2023 / art. 265 <https://doi.org/10.1007/s00705-023-05893-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Sobemovirus**

**Meier, Merike; Olsper, Allan; Sarmiento Guerin, Maria Cecilia; Truve, Erkki** Encyclopedia of virology, Third edition 2008 / p. 644-652 : ill

#### **Sobemoviruses as a target for dsRNA-based vaccination in monocots**

**Olsper, Allan; Sõmera, Merike; Sarmiento Guerin, Maria Cecilia; Truve, Erkki** COST FA0806 WGs meeting: Plant virus control employing RNA-based vaccines: a novel nontransgenic strategy : [Abstract Book] : Helsinki, Finland, September 11-12, 2009 2009 / p. 21

#### **Solemoviruses (Solemoviridae)**

**Sarmiento Guerin, Maria Cecilia; Sõmera, Merike**; Truve, Erkki Encyclopedia of Virology, 4th edition 2021 / p. 712-718  
<https://www.elsevier.com/books/encyclopedia-of-virology/bamford/978-0-12-814515-9>

### **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 / 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 / p. 16

### **Suppression of infectious TMV genomes expressed in young transgenic tobacco plants**

**Siddiqui, Shahid Aslam; Sarmiento Guerin, Maria Cecilia; Valkonen, Suvi; Truve, Erkki; Lehto, Kirsi** Molecular plant-microbe interactions 2007 / 12, p. 1489-1494 : ill <https://apsjournals.apsnet.org/doi/pdf/10.1094/MPMI-20-12-1489>

### **Suppressors of RNA silencing in plants = RNA vaigistamise supressorid taimedes**

**Sarmiento Guerin, Maria Cecilia** 2008 [https://www.ester.ee/record=b2367715\\*est](https://www.ester.ee/record=b2367715*est)

### **Taimeviiruste ja taimede kaitsemehhanismide uurimine : kommentaar Eesti Vabariigi teaduse aastapreemia põlvnude tööde tsüklile**

**Truve, Erkki; Sõmera, Merike; Sarmiento Guerin, Maria Cecilia** Tallinna Tehnikaülikooli aastaraamat 2009 / lk. 193-198

### **Teaduspreemia põllumajandusteaduste alal uurimuste tsükli "Taimeviiruste ja taimede kaitsemehhanismide uurimine" eest : Erkki Truve (kollektiivi juht), Merike Sõmera, Cecilia Sarmiento**

**Truve, Erkki; Sõmera, Merike; Sarmiento Guerin, Maria Cecilia** Eesti Vabariigi teaduspreemiad 2009 / lk. 128-137 : fot

### **The role of FeS domain in RLI for the suppression of RNA silencing**

**Gerassimenko, Jelena; Kärblane, Kairi; Truve, Erkki; Sarmiento Guerin, Maria Cecilia** The non-coding genome : EMBO/EMBL Symposium : 9-12 October 2013, Heidelberg, Germany 2013 / p. 181

### **The role of human RLI in cell proliferation and translational regulation**

**Toompuu, Marina; Kärblane, Kairi; Sarmiento Guerin, Maria Cecilia; Truve, Erkki** The 5th EMBO meeting 2013 : Amsterdam, 21-24 September 2013 / p. 24

### **The role of human RLI in cell proliferation and translational regulation**

**Toompuu, Marina; Kärblane, Kairi; Sarmiento Guerin, Maria Cecilia; Truve, Erkki** RNA 2013 : The 18th Annual Meeting of the RNA Society : June 11th-16th, Congress Center Davos, Davos, Switzerland 2013 / p. 232

### **Transcriptome profiling reveals insight into the cold response of perennial ryegrass genotypes with contrasting freezing tolerance**

**Pashapu, Akhil Reddy; Statkevičiūtė, Gražina; Sustek-Sanchez, Ferenz; Kovi, Mallikarjuna Rao; Rognli, Odd Arne; Sarmiento Guerin, Maria Cecilia; Rostoks, Nils; Jaškūnė, Kristina** Plant stress 2024 / art. 100598 <https://doi.org/10.1016/j.stress.2024.100598>

### **TTÜ aastal 2020 : töögrupi vahearuanne**

**Ermits, Juhan-Peep; Goi, Anna; Jervan, Gert; Leibak, Alar; Randma-Liiv, Tiina; Otto, Tauno; Rosin, Argo; Sarmiento Guerin, Maria Cecilia** Mente et Manu 2009 / 16. veebr., lk. 4 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)