

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-Nov-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

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](#)

ABCE1 is essential for S phase progression in human cells

Toompuu, Marina; Kärblane, Kairi; Pata, Pille; Truve, Erkki; Sarmiento Guerin, Maria Cecilia Cell Cycle 2016 / p. 1234 - 1247 <https://doi.org/10.1080/15384101.2016.1160972> [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; Nicolia, 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 Ebru; 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/POZNAN/2nd%20iPLANTA%20conference%20Poznan%202018%20Book%20of%20abstract.pdf>

Kas Eesti on teadustalentidele ahvatlev sihtkoht?

Vaaks, Eveliis Trialoog 2025 <https://trialoog.taltech.ee/kas-eesti-on-teadustalentidele-ahvatlev-sihtkoht/>

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/kommentaar-final.pdf>

Koroonatsestideks kogutud materjalis leidub väärt infot ka teiste haigustekitajate kohta [Võrguväljaanne]

Ojajäts, Indrek novaator.err.ee 2020 / fot [Koroonatsestideks kogutud materjalis leidub väärt infot ka teiste haigustekitajate kohta](#)

Lõunamaalasena külmal 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

Mõttus, 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

Nobeli keemiapreemia läks geenikäärde loojatele

Oidermaa, Jaan-Juhan; Ojajäts, 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 vähivõim : [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; **Mõttus, 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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 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

Summary of taxonomy changes ratified by the International Committee on Taxonomy of Viruses from the Plant Viruses Subcommittee, 2025

Rubino, Luisa; Abrahamian, Peter; An, Wenxia; Aranda, Miguel A.; Ascencio-Ibañez, Jose T.; Bejerman, Nicolas; Blouin, Arnaud G.; Candresse, Thierry; Canto, Tomas; Cao, Mengji; **Sarmiento Guerin, Maria Cecilia; Sõmera, Merike** Journal of general virology 2025 / 20 p <https://doi.org/10.1099/jgv.0.002114>

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

Taimeviiruste ja taimede kaitsemehhanismide uurimine : kommentaar Eesti Vabariigi teaduse aastapreemia pälvinud tööde tsüklile

Truve, Erkki; Sõmera, Merike; Sarmiento Guerin, Maria Cecilia Tallinna Tehnikaülikooli aastaraamat 2009 2010 / 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; Statkeviciūtė, Gražina; **Sustek-Sanchez, Ferenz; Kovi, Mallikarjuna Rao; Rognli, Odd Arne; Sarmiento Guerin, Maria Cecilia; Rostoks, Nils; Jaškūnė, Kristina** Plant stress 2024 / art. 100598, 11 p. : ill
<https://doi.org/10.1016/j.stress.2024.100598> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

TTÜ aastal 2020 : töögrupi vahearuanne

Ernits, 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