

A REC8-dependent plant Shugoshin is required for maintenance of centromeric cohesion during meiosis and has no mitotic functions

Hamant, Olivier; Golubovskaya, Inna; Meely, Robert; Fiume, Elisa; **Timofejeva, Ljudmilla**; Schleiffer, Alexander; Nasmyth, Kim; Cande, W.Zacheus *Current biology* : CB 2005 / 10, p. 948-954 <https://pubmed.ncbi.nlm.nih.gov/15916952/>

Alleles of *afd1* dissect REC8 functions during meiotic prophase I

Golubovskaya, Inna; Hamant, Olivier; **Timofejeva, Ljudmilla**; Wang, Chung-Ju; Braun, David; Meeley, Robert; Cande, W.Zacheus *Journal of cell science* 2006 / 16, p. 3306-3315 : ill https://www.researchgate.net/publication/6918359_Alleles_of_afd1_dissect_REC8_functions_during_meiotic_prophase_I

An actin cytoskeleton with evolutionarily conserved functions in the absence of canonical actin-binding proteins

Paredes, Alexander; Assaf, Zoe June; Sept, David; **Timofejeva, Ljudmilla**; Dawson, Scott; Wang, Rachel; Cande, W.Zacheus *PNAS* 2011 / p. 6151-6156 : ill <https://pubmed.ncbi.nlm.nih.gov/21444821/>

Analysis of maize meiotic mutants to fix heterosis

Ronceret, Arnaud; Golubovskaya, Inna; **Timofejeva, Ljudmilla** 58th Annual Maize Genetics Conference : program and abstracts : March 17 - March 20, 2016, Hyatt Regency, Jacksonville, Florida 2016 / p. 42 http://maizegdb.org/maize_meeting/abstracts/2016Program.pdf

Application of the pathogen Trojan horse approach in maize (*Zea mays*)

Linde, Karina van der; Egger, Rachel L.; **Timofejeva, Ljudmilla**; Walbot, Virginia *Plant signaling & behavior* 2018 / art. e1547575, 4 p. : ill <https://doi.org/10.1080/15592324.2018.1547575> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

ASK1, a SKP1 homolog, is required for nuclear reorganization, presynaptic homolog juxtaposition and the proper distribution of cohesin during meiosis in *Arabidopsis*

Zhao, Dazhong; Yang, Xiaohui; Quan, Li; **Timofejeva, Ljudmilla** *Plant molecular biology* 2006 / 1/2, p. 99-110 https://www.researchgate.net/publication/6890651_ASK1_a_SKP1_homolog_is_required_for_nuclear_reorganization_presynaptic_homolog_juxtaposition_and_the_proper_distribution_of_cohesin_during_meiosis_in_Arabidopsis

Assaying recombination in barley (*Hordeum vulgare*)

Phillips, D.; Nibau, C.; Fallding, D.; **Timofejeva, Ljudmilla**; Jones, N.; Jenkins, G. *The EMBO Conferences : The EMBO Conference on Meiosis*, Isle sur la Sorgue, France, September 19-23, 2009 2009 / p. 158

Biomolecular interpretation of the Trojan horse myth : use of *Ustilago maydis* to analyze the function of maize (*Zea mays*) *MAC1*

Linde, Karina van der; Egger, Rachel L.; **Timofejeva, Ljudmilla** 58th Annual Maize Genetics Conference : program and abstracts : March 17 - March 20, 2016, Hyatt Regency, Jacksonville, Florida 2016 / p. 50 http://maizegdb.org/maize_meeting/abstracts/2016Program.pdf

Characterization of *ms32*, a bHLH gene required for tapetum development in maize

Moon, Jihyun; Kremling, Karl; **Timofejeva, Ljudmilla** 54th Annual Maize Genetics Conference : program and abstracts : March 15-18, 2012, Portland, Oregon 2012 / p. 97, P104

Characterization of novel anther mutants in maize

Moon, Jihyun; **Timofejeva, Ljudmilla**; Lee, Sidae 53rd Annual Maize Genetics Conference Abstracts : St. Charles, Illinois, USA, March 17-20, 2011 2011 / p. P096

Colinearity-based marker mining for high density mapping of the wheat powdery mildew resistance locus *QPM.tut-4A*

Valarik, Miroslav; **Jakobson, Irena**; **Timofejeva, Ljudmilla**; Kladvova, Monika; **Järve, Kadri**; Določel, Jaroslav Abstracts of the 19th International Triticeae Mapping Initiative - 3rd COST Tritigen : Clermont-Ferrand, France, August 31st - September 4th 2009 2009 / p. 88

Combined approaches toward mapping and cloning of powdery mildew resistance gene *QPM.tut-4A* introgressed to bread wheat from *T. militinae*

Kladvova, Monika; Klocova, Barbora; **Reis, Diana**; **Jakobson, Irena**; **Peuša, Hilma**; **Järve, Kadri**; **Timofejeva, Ljudmilla** Abstracts of the Plant and Animal Genome XX Conference : San-Diego California, US 2012 / p. 313

Construction of physical map for the locus introgressed to bread wheat from *Triticum militinae* conferring powdery mildew resistance

Kominková, E.; Klocová, B.; Abrouk, Michael; **Posti, Diana**; **Jakobson, Irena**; **Peuša, Hilma**; **Järve, Kadri**; **Timofejeva, Ljudmilla** *Cereals for Food, Feed and Fuel - Challenge for Global Improvement : EUCARPIA Cereals Section - ITMI Joint Conference* : Wernigerode, Germany, June 29 - July 4, 2014 : book of abstracts 2014 / p. 114 http://meetings.ipk-gatersleben.de/EUCARPIA_ITMI_2014/book_of_abstracts.pdf

Cytological characterization and allelism testing of anther developmental mutants identified in a screen of maize male sterile lines

Timofejeva, Ljudmilla; Skibbe, David; Lee, Sidae G3 : genes, genomes, genetics 2013 / p. 231-249 : ill
<https://doi.org/10.1534/g3.112.004465> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dissecting meiosis in rye using translational proteomics

Phillips, D.; Mikhailova, E.; **Timofejeva, Ljudmilla** Annals of botany 2008 / p. 873-880 : ill
<https://academic.oup.com/aob/article/101/6/873/184031>

Efficiency of the *Triticum militinae*-derived powdery mildew resistance gene QPm.tut-4A on different genetic backgrounds

Jakobson, Irena; Islamov, Bulat; Tsõmbalova, Jelena; Timofejeva, Ljudmilla; Järve, Kadri International Conference Plant Diseases and Resistance Mechanisms : programme and abstracts : Vienna, Austria, 20-22 February 2013 2013 / p. 52
<http://www.viscea.org/new/conferences/2013/Abstract%20books/Abstract%20BOOK%20PDKsyu.pdf>

Fine mapping, phenotypic characterization and validation of non-race-specific resistance to powdery mildew in a wheat-*Triticum militinae* introgression line

Jakobson, Irena; Reis, Diana; Tiidema, Anu; Peuşa, Hilma; Timofejeva, Ljudmilla; Valarik, Miroslav; Klavdivova, Monika; Doležel, Jaroslav; Järve, Kadri Theoretical and applied genetics 2012 / p. 609-623 <https://pubmed.ncbi.nlm.nih.gov/22534789/>

High density mapping of powdery mildew resistance gene Qpm.Tut-4A introgressed to bread wheat from *Triticum militinae*

Kominkova, Eva; Balcarkova, Barbora; Abrouk, Michael; **Reis, Diana; Jakobson, Irena; Peuşa, Hilma; Järve, Kadri; Timofejeva, Ljudmilla; Doležel, Jaroslav; Valarik, Miroslav** Plant and Animal Genome Conference XXIV : the International Conference on the Status of Plant & Animal Genome Research : January 9-13, 2016, Town & Country Hotel, San Diego, CA 2016 / p. P0872 : ill

Is the maize ortholog of the yeast Pch2 (Pachytene checkpoint 2) involved in meiotic surveillance?

Timofejeva, Ljudmilla; Golubovskaya, Inna; Relvik, Tõnis; Pawlowski, W.; Truve, Erkki EMBO Meiosis Conference 2015 : St Catherine's College, Oxford, UK 2015 / p. 183

Maize meiosis and collection of meiotic mutants

Golubovskaja, Inna; Wang, Rachel; Timofejeva, Ljudmilla; Cande, Zac 51st Maize Genetics Conference : March 12-15, 2009, St.Charles, Illinois, USA 2009 / p. 34

Maize meiotic mutants with improper or non-homologous synapsis due to problems in pairing or synaptonemal complex formation

Golubovskaya, Inna; Wang, Rachel; **Timofejeva, Ljudmilla; Cande, W.** Zacheus Journal of experimental botany 2011 / p. 1533-1544 : ill <https://pubmed.ncbi.nlm.nih.gov/20926553/>

Maize multiple archesporial cells 1 (mac1), an ortholog of rice TDL1A, modulates cell proliferation and identity in early anther development

Wang, Chung-Ju; Nan, Guo-Ling; Kelliher, Timothy; **Timofejeva, Ljudmilla** Development 2012 / p. 2594-2603 : ill
<https://journals.biologists.com/dev/article/139/14/2594/45182/Maize-multiple-archesporial-cells-1-mac1-an>

Meiotic genes and proteins in cereals

Jenkins, G.; Phillips, D.; Mikhailova, E.I.; **Timofejeva, Ljudmilla; Jones, R.N.** Cytogenetic and genome research 2008 / 3/4, p. 291-301

Meiotic mutants affecting homologous synapsis

Golubovskaya, Inna; Wang, Rachel; **Timofejeva, Ljudmilla; Cande, Zac** 52nd Annual Maize Genetics Conference : Riva del Garda (Trento), Italy, March 18-21, 2010 2010 / p. 65

Molecular cell biology of male meiotic chromosomes and isolation of male meiocytes in *Arabidopsis thaliana*

Wang, Yingxiang; Cheng, Zhihao; Lu, Pingli; **Timofejeva, Ljudmilla; Ma, Hong** Flower development : methods and protocols 2014 / p. 217-230

New maize mutants defective in anther development

Timofejeva, Ljudmilla; Lee, Sidae; Harper, Lisa; Golubovskaja, Inna; Wang, Rachel; Vasudevan, Srividya; Walbot, Virginia; Cande, Zac 51st Maize Genetics Conference : March 12-15, 2009, St.Charles, Illinois, USA 2009 / p. 93

Novel maize mutants impaired in cell differentiation during anther development

Timofejeva, Ljudmilla; Lee, Sidae; Skibbe, David; Golubovskaya, Inna; Wang, Chung-Ju; Harper, Lisa; Walbot, Virginia; Cande, Zac 52nd Annual Maize Genetics Conference : Riva del Garda (Trento), Italy, March 18-21, 2010 2010 / p. 85

Pathogen Trojan horse delivers bioactive host protein to alter maize anther cell behavior in situ

Linde, Karina van der; **Timofejeva, Ljudmilla; Egger, Rachel L.; Ilau, Birger** The Plant cell 2018 / p. 528-542 : ill
<https://doi.org/10.1105/tpc.17.00238> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Precise mapping the powdery mildew resistance locus QPm.tut-4A in wheat using barley, brachypodium, and rice

collinear regions

Valarik, Miroslav; **Jakobson, Irena; Timofejeva, Ljudmilla**; Kladviva, Monika; **Järve, Kadri**; Dolezel, Jaroslav Plant & Animal Genome XVIII Conference : San Diego, 2010 2010 / p. P332

Preparing thin sections of meiotic nuclei for transmission electron microscopy

Timofejeva, Ljudmilla Plant meiosis : methods and protocols 2013 / p. 167-174

Regulation of Arabidopsis tapetum development and function by Dysfunctional tapetum1 (DYT1) encoding a putative bHLH transcription factor

Zhang, Wei; Sun, Yujin; **Timofejeva, Ljudmilla**; Chen, Changbin; Grossniklaus, Ueli; Ma, Hong Development 2006 / 16, p. 3085-3095
<https://pubmed.ncbi.nlm.nih.gov/16831835/>

Regulation of cell divisions and differentiation by MALE STERILITY32 is required for anther development in maize

Moon, Jihyun; Skibbe, David; **Timofejeva, Ljudmilla** The plant journal 2013 / p. 592-602 : ill <https://doi.org/10.1111/tpj.12318> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Structural variations of T. militinae locus introgressed into wheat chromosome arm 4AL and conferring improved powdery mildew resistance

Kominkova, Eva; **Jakobson, Irena; Järve, Kadri; Peusa, Hilma**; Abrouk, Michael; **Timofejeva, Ljudmilla**; Doležel, Jaroslav; Valarik, Miroslav International Plant & Animal Genome XXV : January 14-18, 2017, San Diego, CA, USA : [poster abstracts] 2017 / poster P0896, p. [245] <http://www.intpag.org/2017/113-newsroom/news-xxv/295-pag-xxv-links>

The Arabidopsis ROCK-N-ROLLERS gene encodes a homolog of the yeast ATP-dependent DNA helicase MER3 and is required for normal meiotic crossover formation

Chen, Changlin; Zhang, Wei; **Timofejeva, Ljudmilla**; Gerardin, Yaine; Ma, Hong Plant journal 2005 / 3, p. 321-334
<https://pubmed.ncbi.nlm.nih.gov/16045469/>

The Arabidopsis SKP1 homolog ASK1 controls meiotic chromosome remodeling and release of chromatin from the nuclear membrane and nucleolus

Yang, Xiaohui; **Timofejeva, Ljudmilla**; Ma, Hong; Makaroff, Christopher A. Journal of cell science 2006 / 18, p. 3754-3763 : ill
<https://pubmed.ncbi.nlm.nih.gov/16940350/>

The AtRAD51C gene is required for normal meiotic chromosome synapsis and double-stranded break repair in Arabidopsis

Li, W.; Yang, X.; Lin, Z.; **Timofejeva, Ljudmilla**; Xiao, R.; Makaroff, Christopher A.; Ma, H. Plant physiology 2005 / 2, p. 965-976
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1150411/>

The characterization of maize null mutants of SPO11-1 reveals its role in the conformation of chromosome axes during meiosis

Ronceret, Armand; Golubovskaya, Inna; **Timofejeva, Ljudmilla** 54th Annual Maize Genetics Conference : program and abstracts : March 15-18, 2012, Portland, Oregon 2012 / p. 93, P095

The collection of maize meiotic mutants illuminates the process of recombination during the leptotene stage

Ronceret, Arnaud; Golubovskaya, Inna; **Timofejeva, Ljudmilla** 55th Annual Maize Genetics Conference : program and abstracts : March 14-March 17, 2013, Pheasant Run, St. Charles, Illinois 2013 / p. 128

The in silico identification and characterization of a bread wheat/Triticum militinae introgression line

Abrouk, Michael; Balcarkova, Barbora; Šimkova, Hana; **Jakobson, Irena; Timofejeva, Ljudmilla; Järve, Kadri** Plant biotechnology journal 2017 / p. 249-256 : ill <https://doi.org/10.1111/pbi.12610> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Towards cloning the powdery mildew resistance gene QPm.tut-4A introgressed to bread wheat from T. militinae

Kladviva, Monika; Klocova, Barbora; Posti, Diana; **Jakobson, Irena; Peusa, Hilma; Järve, Kadri; Timofejeva, Ljudmilla** Abstracts of the ITMI NWGC Joint Workshop : Fargo ND, USA 2012
https://wheat.pw.usda.gov/ggpages/awn/58/TEXTFILES/ITMI/SP19_VALARIK.pdf

Variable lobes, a polarity-affected anther mutant in maize

Kremling, Karl; Moon, Jihyun; **Timofejeva, Ljudmilla** 54th Annual Maize Genetics Conference : program and abstracts : March 15-18, 2012, Portland, Oregon 2012 / p. 88, P086