

HORIZON
2020

Accelerated Development of multiple-stress tolerAnt PoTato

Wyniki

Informacje na temat projektu

ADAPT

Identyfikator umowy o grant: 862858

[Strona internetowa projektu](#)

DOI

[10.3030/862858](https://doi.org/10.3030/862858)

Projekt został zamknięty

Data podpisania przez KE

27 Czerwca 2020

Data rozpoczęcia

1 Lipca 2020

Data zakończenia

31 Października 2024

Finansowanie w ramach

SOCIETAL CHALLENGES - Food security, sustainable agriculture and forestry, marine, maritime and inland water research, and the bioeconomy

Koszt całkowity

€ 4 999 973,75

Wkład UE

€ 4 999 972,00

Koordynowany przez

UNIVERSITÄT WIEN



Austria

CORDIS oferuje możliwość skorzystania z odnośników do publicznie dostępnych publikacji i rezultatów projektów realizowanych w ramach programów ramowych HORYZONT.

Odnośniki do rezultatów i publikacji związanych z poszczególnymi projektami 7PR, a także odnośniki do niektórych konkretnych kategorii wyników, takich jak zbiory danych i oprogramowanie, są dynamicznie pobierane z systemu [OpenAIRE](#).

Rezultaty

[Potato 'omics data analysis pipelines](#)

Potato 'omics data analysis pipelines standardised and made available for the scientific community (M30)

[PEDR first update and adjustment](#)

Initial Plan for Exploitation and Dissemination of Results PEDR (M6), which will define handling of IPR issues, goals/targets of dissemination and implementation in commercial products of the breeders. This plan will be continuously updated throughout the project (M12, 24 up to M48)

[PEDR established](#)

Initial Plan for Exploitation and Dissemination of Results PEDR will define handling of IPR issues, goals/targets of dissemination and implementation in commercial products of the breeders. This plan will be continuously updated throughout the project.

[PEDR second update and adjustment](#)

Initial Plan for Exploitation and Dissemination of Results PEDR (M6), which will define handling of IPR issues, goals/targets of dissemination and implementation in commercial products of the breeders. This plan will be continuously updated throughout the project (M12, 24 up to M48)

[Communication infrastructure established](#)

Communication infrastructure established; the project website goes online to allow sharing of generated data, and general information (M6)

[StressKnowledgeMap](#)

StressKnowledgeMap: web application enabling standardised construction of integrated knowledge network and its interrogation (M15)

[PEDR third update](#)

Initial Plan for Exploitation and Dissemination of Results PEDR (M6), which will define handling of IPR issues, goals/targets of dissemination and implementation in commercial products of the breeders. This plan will be continuously updated throughout the project (M12, 24 up to M48)

[Data visualisation tools updated](#)

Data visualisation tools updated based on the updates in knowledge network (M18)

Open Research Data Pilot (1)

[ORD pilot and Data Management Plan](#) 

Data Management Plan DMP implemented and guidelines for Open Research Data pilot defined M6

Dokumenty, raporty (2)

[Report on field day/workshop](#) 

One joint field day and one joint workshop organized with other EU projects funded under this call or in a similar topic (M24 and M42)

[Report of farmers' perception survey](#) 

Descriptive report of farmers perception survey and set of recommendations for dissemination activities M12

Publikacje

Artykuły recenzowane (24)

[TGA transcription factors—Structural characteristics as basis for functional variability](#) 

Autorzy: Špela Tomaž; Špela Tomaž; Kristina Gruden; Anna Coll

Opublikowane w: Crossref, Numer 3, 2022, ISSN 1664-462X

Wydawca: Frontiers Media S. A.

DOI: 10.3389/fpls.2022.935819

[Evidence-based unification of potato gene models with the UniTato collaborative genome browser](#) 

Autorzy: Maja Zagorščak, Jan Zrimec, Carissa Bleker, Nadja Nolte, Mojca Juteršek, Živa Ramšak, Kristina Gruden, Marko Petek

Opublikowane w: Frontiers in Plant Science, Numer 15, 2024, ISSN 1664-462X

Wydawca: Frontiers Media S. A.

DOI: 10.3389/fpls.2024.1352253

[Assimilate highway to sink organs – Physiological consequences of SP6A overexpression in transgenic potato \(*Solanum tuberosum* L.\)](#) 

Autorzy: Günter G. Lehretz Sophia Sonnewald Uwe Sonnewald

Opublikowane w: Journal of Plant Physiology, Numer 226, 2021, Strona (/y)

153530, ISSN 0176-1617

Wydawca: Elsevier BV

DOI: 10.1016/j.jplph.2021.153530

[pISA-tree - a data management framework for life science research projects using a standardised directory tree](#)

Autorzy: Marko Petek, Maja Zagorščak, Andrej Blejec, Živa Ramšak, Anna Coll, Špela Baebler & Kristina Gruden

Opublikowane w: Scientific data, 2022, ISSN 2052-4463

Wydawca: Nature Research

DOI: 10.1038/s41597-022-01805-5

[Cell-type proteomic and metabolomic resolution of early and late grain filling stages of wheat endosperm](#)

Autorzy: Shuang Zhang, Arindam Ghatak, Mitra Mohammadi Bazargani, Hannes Kramml, Fujuan Zang, Shuang Gao, Živa Ramšak, Kristina Gruden, Rajeev K. Varshney, Dong Jiang, Palak Chaturvedi, Wolfram Weckwerth

Opublikowane w: Plant Biotechnology Journal, 2023, ISSN 1467-7652

Wydawca: John Wiley & Sons

DOI: 10.1111/pbi.14203

[High Throughput Image-Based Phenotyping for Determining Morphological and Physiological Responses to Single and Combined Stresses in Potato](#)

Autorzy: Lamis Osama Anwar Abdelhakim, Barbora Pleskačová, Natalia Yaneth Rodriguez-Granados, Rashmi Sasidharan, Lucia Sandra Perez-Borroto, Sophia Sonnewald, Kristina Gruden, Ute C. Vothknecht, Markus Teige, Klára Panzarová

Opublikowane w: Journal of Visualized Experiments, 2024, ISSN 1940-087X

Wydawca: MYJoVE Corporation

DOI: 10.3791/66255

[Chloroplast redox state changes mark cell-to-cell signaling in the hypersensitive response](#)

Autorzy: Tjaša Lukan, Anže Županič, Tjaša Mahkovec Povalej, Jacob O. Brunkard, Mirjam Kmetič, Mojca Juteršek, Špela Baebler, Kristina Gruden

Opublikowane w: New Phytologist, 2022, ISSN 1469-8137

Wydawca: John Wiley & Sons

DOI: 10.1111/nph.18425

[Water stress resilient cereal crops: lessons from wild relatives](#)

Autorzy: Toulotte JM, Pantazopoulou CK, Sanclemente MA, Voisenek LA, Sasidharan R.

Opublikowane w: Journal of Integrative Plant Biology, 2022, Strona(/y) Online ahead of print, ISSN 1365-313X

Wydawca: Wiley

DOI: 10.1111/jipb.13222

[Organelles and phytohormones: a network of interactions in plant stress responses](#) 

Autorzy: Andras Bittner, Agata Cieřła, Kristina Gruden, Tjařa Lukan, Sakil Mahmud, Markus Teige, Ute C Vothknecht, Bernhard Wurzinger
Author Notes
Opublikowane w: Journal of Experimental Botany, 2022, ISSN 1460-2431
Wydawca: Oxford University Press
DOI: 10.1093/jxb/erac384

[Profiling of 1-aminocyclopropane-1-carboxylic acid and selected phytohormones in Arabidopsis using liquid chromatography-tandem mass spectrometry](#) 

Autorzy: Karady, Michal; Hladík, Pavel; Germanová, Kateřina; Jiroutová, Petra; Antoniadi, Ioanna; Casanova-Sáez, Rubén; Ljung, Karin; Novák, Ondřej
Opublikowane w: Crossref, Numer 1, 2024, ISSN 1746-4811
Wydawca: BioMed Central
DOI: 10.1186/s13007-024-01165-8

[Low dose ribosomal DNA P-loop mutation affects development and enforces autophagy in Arabidopsis](#) 

Autorzy: Thiruvankadam Shanmugam, Palak Chaturvedi, Deniz Streit, Arindam Ghatak, Thorsten Bergelt, Stefan Simm, Wolfram Weckwerth & Enrico Schleiff
Opublikowane w: RNA Biology, 2023, ISSN 1555-8584
Wydawca: Taylor&Francis
DOI: 10.1080/15476286.2023.2298532

[stress knowledge map: a knowledge graph resource for systems biology analysis of plant stress responses](#) 

Autorzy: Carissa Bleker, Živa Ramřak, Andras Bittner, Vid Podpečan, Maja Zagorřak, Bernhard Wurzinger, Špela Baebler, Marko Petek, Maja Kriřnik, Annelotte van Dieren, Juliane Gruber, Leila Afjehi-Sadat, Wolfram Weckwerth, Anže Źupanič, Markus Teige, Ute C. Vothknecht, Kristina Gruden
Opublikowane w: Plant Communications, Numer Volume 5.Numer. 5, May 13, 2024, 2024, ISSN 0092-8674
Wydawca: Cell Press
DOI: 10.1016/j.xplc.2024.100920

[A helping hand when drowning: The versatile role of ethylene in root flooding resilience](#) 

Autorzy: Hendrika A.C.F. Leeggangers 1, Natalia Yaneth Rodriguez-Granados 1, Monika Gyöngyi Macias-Honti 1, Rashmi Sasidharan
Opublikowane w: Environmental and Experimental Botany, 2023, ISSN 1873-7307
Wydawca: Elsevier B.V.
DOI: 10.1016/j.envexpbot.2023.105422

[A mini-TGA protein modulates gene expression through heterogeneous association with transcription factors](#) 

Autorzy: Špela Tomaž, Marko Petek, Tjaša Lukan, Karmen Pogačar, Katja Stare, Erica Teixeira Prates, Daniel A Jacobson, Jan Zrimec, Gregor Bajc, Matej Butala, Maruša Pompe Novak, Quentin Dudley, Nicola Patron, Ajda Taler-Verčič, Aleksandra Usenik, Dušan Turk, Salomé Prat, Anna Coll, Kristina Gruden
Opublikowane w: Plant Physiology, 2023, ISSN 0032-0889
Wydawca: American Society of Plant Biologists
DOI: 10.1093/plphys/kiac579

[Cold plasma within a stable supercavitation bubble – A breakthrough technology for efficient inactivation of viruses in water](#) 

Autorzy: Arijana Filipić a, David Dobnik a, Ion Gutiérrez-Aguirre a, Maja Ravnkar a, Tamara Košir a, Špela Baebler a, Alja Štern b, Bojana Žegura b, Martin Petkovšek c, Matevž Dular c, Miran Mozetič d, Rok Zaplotnik d, Gregor Primc d
Opublikowane w: Enviroment International, 2023, ISSN 1873-6750
Wydawca: PERGAMON-ELSEVIER SCIENCE LTD.
DOI: 10.1016/j.envint.2023.108285

[Spatial control of potato tuberization by the TCP transcription factor BRANCHED1b](#) 

Autorzy: Michael Nicolas 1 , Rafael Torres-Pérez 2 , Vanessa Wahl 3 , Eduard Cruz-Oró 4 , María Luisa Rodríguez-Buey 4 , Angel María Zamarreño 5 , Beatriz Martín-Jouve 6 , José María García-Mina 5 , Juan Carlos Oliveros 2 , Salomé Prat 4 7 , Pilar Cubas 8
Opublikowane w: Nature plants, 2022, ISSN 2055-0278
Wydawca: Nature Publishing Group
DOI: 10.1038/s41477-022-01112-2.

[Farmers Feel the Climate Change: Variety Choice as an Adaptation Strategy of European Potato Farmers](#) 

Autorzy: Philipp von Gehren 1, Svenja Bomers 1, Tanja Tripolt 2, Josef Söllinger 3, Noémie Prat 1, Berta Redondo 4, Romans Vorss 4, Markus Teige 5 , Anita Kamptner 6 and Alexandra Ribarits 1,*
Opublikowane w: Climate, 2023, ISSN 2225-1154
Wydawca: MDPI
DOI: 10.3390/cli11090189

[Allelic variants of a potato HEAT SHOCK COGNATE 70 gene confer improved tuber yield under a wide range of environmental conditions](#) 

Autorzy: Raymond Campbell, Laurence Ducreux, Graham Cowan, Vanessa Young, Gift Chinoko, Gloria Chitedze, Stanley Kwendani, Margaret Chiipanthenga, Craita E. Bitu, Obed Mwenye, Hassan Were, Lesley Torrance, Sanjeev Kumar Sharma, Robert D. Hancock, Glenn J. Bryan, Mark Taylor
Opublikowane w: Food and Energy Security, 2022, ISSN 2048-3694

Wydawca: John Wiley & Sons

DOI: 10.1002/fes3.377

[Identification of heat stress-related genomic regions by genome-wide association study in *Solanum tuberosum*](#)

Autorzy: Alexander Kaier, Selina Beck, Markus Ingold, José María Corral, Stephan Reinert, Uwe Sonnewald, Sophia Sonnewald

Opublikowane w: Genomics, Numer 116, 2024, Strona(/y) 110954, ISSN 0888-7543

Wydawca: Academic Press

DOI: 10.1016/j.ygeno.2024.110954

[Biosensors: A Sneak Peek into Plant Cell's Immunity](#)

Autorzy: Valentina Levak 1,2,* , Tjaša Lukan 1 , Kristina Gruden 1 and Anna Coll 1

Opublikowane w: Life, 2021, ISSN 2075-1729

Wydawca: MDPI

DOI: 10.3390/life11030209

[<scp>StCDF1</scp>: A '*<i>jack of all trades</i>*' clock output with a central role in regulating potato nitrate reduction activity](#)

Autorzy: Maroof Ahmed Shaikh, Lorena Ramírez-Gonzales, José M. Franco-Zorrilla, Evyatar Steiner, Marian Oortwijn, Christian W. B. Bachem, Salomé Prat

Opublikowane w: New Phytologist, Numer 245, 2025, Strona(/y) 282-298, ISSN 0028-646X

Wydawca: Blackwell Publishing Inc.

DOI: 10.1111/nph.20186

[Paintomics 4: new tools for the integrative analysis of multi-omics datasets supported by multiple pathway databases](#)

Autorzy: Tianyuan Liu¹, Pedro Salguero², Marko Petek³, Carlos Martinez-Mira⁴, Leandro Balzano-Nogueira⁵, Z'iva Rams'ak³, Lauren McIntyre⁶, Kristina Gruden³, Sonia Tarazona² and Ana Conesa

Opublikowane w: Nucleic Acid Research, 2022, Strona(/y) Pages W551–W559, ISSN 1362-4962

Wydawca: Oxford University Press

DOI: 10.1093/nar/gkac352

[Phased, chromosome-scale genome assemblies of tetraploid potato reveals a complex genome, transcriptome, and predicted proteome landscape underpinning genetic diversity](#)

Autorzy: Genevieve Hoopes, Xiaoxi Meng, John P. Hamilton, Sai Reddy Achakkagari, Fernanda de Alves Freitas Guesdes, Marie E. Bolger, Joseph J. Coombs, Danny Esselink, Natalie R. Kaiser, Linda Kodde, Maria Kyriakidou, Brian Lavrijssen, Natascha van Lieshout, Rachel Shereda, Heather K. Tuttle,

Brieanne Vaillancourt, Joshua C. Wood, Jan M. de Boer, Nolan Bornowski, Peter Bourke, David Douches, Herman J. van E

Opublikowane w: MOLECULAR PLANT, Numer Online ahead of print, 2022, ISSN 1674-2052

Wydawca: Oxford University Press

DOI: 10.1016/j.molp.2022.01.003

[Intertwined Roles of Reactive Oxygen Species and Salicylic Acid Signaling Are Crucial for the Plant Response to Biotic Stress](#)

Autorzy: Tjaša Lukan and Anna Coll

Opublikowane w: Molecular Science, 2022, ISSN 1422-0067

Wydawca: Multidisciplinary Digital Publishing Institute (MDPI)

DOI: 10.3390/ijms23105568

Rozdziały książek (3)

[Toward the Design of Potato Tolerant to Abiotic Stress](#)

Autorzy: Raymond Campbell, Laurence J. M. Ducreux, Elena Mellado-Ortega, Robert D. Hancock & Mark A. Taylor

Opublikowane w: Solanum tuberosum - Methods and Protocols, 2021, Strona(/y) pp 387–399, ISBN 978-1-0716-1609-3

Wydawca: Humana, New York, NY

DOI: 10.1007/978-1-0716-1609-3_19

[Methodologies for Discovery and Quantitative Profiling of sRNAs in Potato](#)

Autorzy: DOBNIK, David, GRUDEN, Kristina, RAMŠAK, Živa, COLL RIUS, Anna

Opublikowane w: Methods in molecular biology, Numer 2354, 2021, ISBN 978-1-0716-1609-3

Wydawca: Humana Press, cop.

DOI: 10.1007/978-1-0716-1609-3_11

[RNA Sequencing Analyses for Deciphering Potato Molecular Responses](#)

Autorzy: Živa Ramšak, Marko Petek & Špela Baebler

Opublikowane w: Solanum tuberosum - Methods and Protocols, 2021, Strona(/y) pp 57–94

Wydawca: Humana, New York, NY

DOI: 10.1007/978-1-0716-1609-3_3

Materiały z konferencji (2)

ADAPT –Accelerated development of multiple-stress tolerant potato

Autorzy: Ribarits A, von Gehren P, Bomers S, Prat N, Tripolt T, Söllinger J

Opublikowane w: Vereinigung der Pflanzenzüchter und Saatgutkaufleute Österreichs (Ed), 71. Jahrestagung 2020, 2021, Strona(/y) 35-36

Wydawca: BOKU-University of Natural Resources and Life Sciences

[DAP-Seq Identification of Transcription Factor-Binding Sites in Potato](#) 

Autorzy: José M. Franco-Zorrilla & Salomé Prat

Opublikowane w: Solanum tuberosum - Methods and Protocols, 2021, Strona(/y) pp 123–142, ISBN 978-1-0716-1609-3

Wydawca: Humana, New York, NY

DOI: 10.1007/978-1-0716-1609-3_6

Monografie (1)

[Solanum tuberosum - Methods and Protocols](#) 

Autorzy: David Dobnik, Kristina Gruden, Živa Ramšak, Anna Coll

Opublikowane w: Solanum tuberosum - Methods and Protocols, 2021, ISBN 978-1-0716-1609-3

Wydawca: Humana New York, NY

DOI: 10.1007/978-1-0716-1609-3

Oprogramowanie

Oprogramowanie za pośrednictwem OpenAIRE (1)



pISA-tree

Autorzy: Blejec, Andrej; Gruden, Kristina

Wydawca: bio.tools

Ostatnia aktualizacja: 4 Czerwca 2025

Permalink: <https://cordis.europa.eu/project/id/862858/results/pl>

