Curriculum Vitae

PERSONAL INFORMATION

Name and surname	**Branka Salopek Sondi**
Academic title	Dr.sc.
Year and institution of PhD obtained	2000., University of Zagreb
Address	Department of Molecular Biology, Ruđer Bošković Institute, Bijenička cesta 54, 10 000 Zagreb
Phone	(385) 1 4561 143
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E-mail	salopek@irb.hr
Personal web page	http://www.irb.hr/People/Branka-Salopek-Sondi
Citizenship	Croat
Date and place of birth	1st February 1968.

WORK EXPERIENCE (CHRONOLOGICALLY)

Date (from – until)	2018-
Institution	Ruđer Bošković Institute, Bijenička cesta 54, 10 000 Zagreb. Croatia
Position	Senior scientist tenured at Department of Molecular Biology, Head of the Laboratory of Chemical Biology
Work field	Research in the field of plant stress physiology and protein biochemistry

Date (from – until)	2013-2018
Institution	Ruđer Bošković Institute, Bijenička cesta 54, 10 000 Zagreb. Croatia
Position	Senior scientist at Department of Molecular Biology, Head of the Laboratory of Chemical Biology
Work field	Research in the field of plant physiology, plant stress response, and protein biochemistry

Date (from – until)	2009-2013
Institution	Ruđer Bošković Institute, Bijenička cesta 54, 10 000 Zagreb. Croatia
Position	Senior research associate at Department of Molecular Biology, Senior scientist (scientific vocation, 2011); Head of the Laboratory of Chemical Biology
Work field	Research in the field of plant physiology and protein biochemistry

Date (from – until)	2003-2009
Institution	Ruđer Bošković Institute, Bijenička cesta 54, 10 000 Zagreb. Croatia
Position	Research associate at Department of Molecular Biology, Senior research associate (scientific vocation, 2006)
Work field	Research in the field of plant physiology and protein biochemistry

Date (from – until)	2000-2003
Institution	Ruđer Bošković Institute, Bijenička cesta 54, 10 000 Zagreb. Croatia
Position	Research assistant at Department of Molecular Biology
Work field	Research in the field of plant physiology and protein biochemistry

Date (from – until)	1993-2000
Institution	Ruđer Bošković Institute, Bijenička cesta 54, 10 000 Zagreb. Croatia
Position	Graduate student at Department of Molecular Biology
Work field	Research in the field of plant physiology, teaching assistantship in the course of electron microscopy

EDUCATION
(CHRONOLOGICALLY)

Date	2000
Place	Zagreb
Institution	University of Zagreb
Title of qualification awarded	Ph.D., Biology, Molecular and Cellular Biology
Date	1995
Place	Zagreb
Institution	University of Zagreb
Title of qualification awarded	MS, Biology, Molecular and cellular Biology
Date	1992
Place	Zagreb
Institution	University of Zagreb
Title of qualification awarded	BS, Biology, Molecular Biology

TRAINING
(CHRONOLOGICALLY)

Year	2001-2003
Place	Potsdam, NY, USA
Institution	Clarkson University, Laboratory of protein biochemistry, Prof. Dr. Linda A. Luck
Subject and skills covered	Postdoctoral training: Protein structure and function / Research in the field of protein biochemistry, supervising several undergraduate students, teaching contribution in the courses of bioinformatics and biotechnology
Year	1998-2000
Place	Potsdam, NY, USA
Institution	Clarkson University, Laboratory of protein biochemistry, Prof. Dr. Linda A. Luck
Subject and skills covered	Graduate training: Protein structure and function / Research in the field of protein biochemistry, teaching assistantship in the courses of molecular biology, microbiology, ecology and human physiology
Year	1997-1998
Place	Ljubljana, Slovenia
Institution	National Institut of Biology, Prof. Dr. Maja Kovač
Subject and skills covered	Graduate training: Plant physiology and biochemistry / Analyses of plant hormones cytokinins and plant pigments

LANGUAGES

MOTHER TONGUE	Croatian
ENGLISH LANGUAGE	
Speaking	Active
Writing	Active
Reading	Active

RESEARCH AND OTHER PROJECTS
(CHRONOLOGICALLY; LEADER AND ASSOCIATES; FUNDING SOURCE)

Principal and Co-Principal investigator:

- The role of auxin-amidohydrolases in heat stress of Arabidopsis, DAAD (PIs: Ludwig-Muller J. and Salopek Sondi B.), 2021.-2022.
- Assessment of drought tolerance of Croatian grapevine germplasm, KK.05.1.1.02.0010, European Regional Development Fund (PI: Zdunić G., Coordinator of project activities at Partner institutions

(RBI): Salopek Sondi B.), 2020-2023.
- Agrobiodiversity - the basis for adaptation and mitigation climate change in agriculture, KK.05.1.1.02.0005, European Regional Development Fund (PI: Goreta Ban S., Coordinator of project activities at Partner institutions (RBI): Salopek Sondi B.), 2019-2022.
- Adaptation of vegetable crops to new agrometeorological conditions in Slavonia KK.05.1.1.02.0004, European Regional Development Fund (PI: Milosavljević S., Coordinator of project activities at Partner institutions (RBI): Salopek Sondi B.) 2020-2023.
- Career development of young researchers - training of new doctors of science, Croatian Science Fundation (PI: Salopek Sondi B.) 2016-2021
- Phytohormones in abiotic stress of Brassica crops: mechanism of tolerance and application, IP-2014-09-4359, Croatian Science Fundation, (PI: Salopek Sondi B.), 2015-2019.
- The role of salicylic acid and auxins in defense responses of Brassica crop plants, DAAD (PIs: Ludwig-Muller J. and Rusak G., Co-Pi: Salopek Sondi B.), 2015-2016.
- Temperature stability of polifenolic compounds and their antioxidant activities in plant extracts, applied grant, Green Life B&G d.o.o. (PIs: Salopek Sondi B. and Jerić I.), 2014-2016.
- Phytochemical evaluation and antioxidant capacities of commercial and autochthonous fruit and vegetable varieties, applied grant, Podravka food industry (PI: Branka Salopek Sondi), 2013-2014
- Study of plant enzymes from metallopeptidase families M20 and M49, Alexander von Humboldt foundation (PIs: Tomić S., Ludwig-Muller J., Co-PIs: Abramić M., Salopek-Sondi B., Wade R.), 2012-2015.
- Phenolic derivatives in *Physcomitrella patens* Hedw.: profile, hormonal regulation and role in biotic stress, DAAD grant, (PIs: Ludwig-Muller J. and Rusak G., Co-PI: Salopek-Sondi B.), 2013-2014.
- Molecular regulation of plant development, Croatian Ministry of Science, Education and Sports, no. 098-0982913-2829, 2007-2013.
- Endogenous antimicrobial compounds in Chinese cabbage (*Brassica rapa* L.) upon viral and bacterial infections, DAAD grant, (PIs: Ludwig-Muller J. and Rusak G., Co-PI: Salopek-Sondi B.), 2011-2012.
- Analysis of plant hormones auxin, salycilic acid and jasmonic acid in Brassica rapa upon abiotic stress, Foundation of Croatian Academy of Art and Science, 2012.
- RAPD analysis of Varaždin cabagge varieties, applied grant, Varaždin county, 2012.
- Plant hormones in development and biotic stress: biochemical and molecular approach, Collaborative research grant between the Republic of Croatia and the Republic of Slovenia, 2007 - 2009.
- Propagation of aronia, (*Aronia melanocarpa* L.), applied grant, Primorsko- goranska county, 2006–2007.
- Propagation of high bush American blueberry (*Vaccinium corymbosum* L.), applied grant, Primorsko- goranska county, 2005–2008.
- Phytohormones in coordination of vegetative and generative growth, Grant for young scientists, no. 098448, Croatian Ministry of Science and Technology, 1998-2001.

Research associate:

- MATH-BTB proteins as a transcription regulators and RNA mediated DNA metilation in plant development. Croatian Science Fundation (PI: Leljak-Levanić D.), 2017-2021.
- Enhancement of the Innovation Potential in SEE through new Molecular Solutions in Research and Development (InnoMol), Capacities FP7- REGPOT-2012-2013-1 program (PI: Vugrek O.) 2013-2016.
- Molecular enzymology and protein interactions of hydrolases, Croatian Ministry of Science, Education and Sports, no. 098-1191344-2938, (PI: Abramić M.), 2007-2013.
- Diversity in metallopeptidase family M49, Collaborative research project between the Republic of Croatia and Austria: (PI: Abramić M.), 2012-2013.
- Biocatalytic application of halohydrin dehalogenases for production of chiral building blocks, UKF, (PI: Majerić-Elenkov M.), 2009-2011.
- Structure-function relationship in metallopeptidase family M49, Collaborative research project between the Republic of Croatia and Austria: (PI: Abramić M.), 2010. - 2011.
- Precipitation and sedimentation of aragonite in Mljet lakes and biochemical and molecular characterization of intrasceletal proteins of coral *Cladocora caespitosa*, commercial grant, National park Mljet, (PI: Sondi I.), 2006.-2008.
- Structure – function studies on metallopeptidases involved in metabolism of biologically active peptides, Collaborative research project between the Republic of Croatia and Austria: (PI: Abramić M.), 2006. - 2007.
- Regulation of morphogenesis in plants, Collaborative research project between the Republic of

Croatia and the Republic of Slovenia (PI: Magnus V.), 1997. - 1999.
- Molecular tools in the research of plant hormone auxin (indole-3-acetic acid), United States Department of Agriculture, (PI: Magnus V.), 1995. -1999.
- At five grants funded by Croatian Ministry of Science, Education and Sports, 1993-2006 (PI: Magnus V.)

TEACHING
(CHRONOLOGICALLY; UNDERGRADUATE, GRADUATE , POSTGRADUATE STUDY PROGRAMMES

Interdisciplinary doctoral study *Molecular biosciences (MOBI),* course leader at graduate course: Plant hormones: from biosynthesis to action, 2012.-2022.

Undergraduate study at Faculty of Agronomy, University of Zagreb, *c*o-lecturer at course: "Molecular microbiology", (course leader: Vujaklija D.), 2010-2012.

Doctoral study at Faculty of Agronomy, University of Zagreb, *c*o-lecturer at graduate course "Biological and physiological factors in horticulture", (course leader: Vršak I.), 2010-

Interdisciplinary doctoral study *Molecular biosciences (MOBI), c*o-lecturer at graduate course: Molecular enzymology (course leader: Abramić M.), 2008.- 2016.

MENTORSHIP OF DEFENDED DOCTORAL AND MASTER DISSERTATIONS AND TRAINING OF YOUNG RESEARCHERS AND SCIENTISTS
(CHRONOLOGICALLY)

Academic advisor for bachelor's:
Krunoslav Baotić, 2023; Dario Lučić 2021; Petra Dičak 2020; Ana Mikelić 2019; Ivana Rubić, 2018; Renata Grenković, 2012; Iva Janković, 2012; Andreja Kamenečki, 2011; Ivana Kapustić, 2010; Maja Brajlović, 2010; Silvana Rošić, 2008

Mentor and Co-mentor of Ph. D. Thesis:
Ida Linić 2020; Ana Smolko, 2019; Zrinka Karačić, 2018; Iva Pavlović, 2017; Vida Čadež, 2015; Dunja Šamec, 2013; Jasminka Špoljarić, 2010

AWARDS AND RECOGNITIONS
(CHRONOLOGICALLY)

- The Best paper Award, journal Plants, 2021
- Awards of Ruđer Bošković Institute for articles published in Frontiers in Plant Science (2019) 10:450., and Critical Reviews of Food Science and Nutrition (2019) 59, 2411-2422.; both ranked in 10% of Plant Science and Food Science and Technology, respectively; 2020.
- Award of Ruđer Bošković Institute for article published in Food Chemistry 269 (2018) 96-102; ranked in 10% of Food Science and Technology; 2019.
- Croatian Women of Influence Award, 2018.
- Award of Croatian Academy of Science and Art, 2017.
- Co-author at scientific article published in J. Colloid Interface Sci. (2004) 275, 177-182, awarded by "Scientific excellence award" granted by Croatian Ministry of Science, Education and Sports for high citations

ORGANIZATIONAL SKILLS AND COMPETENCES
(CHRONOLOGICALLY; ORGANIZATION OF HOME AND INTERNATIONAL SCIENCE EVENTS)

Member of organizing committee of The 5th Central European Conference "Chemistry towards Biology", Primošten, Croatia, September 8–11, 2010.

MEMBERSHIP IN SCIENCE ORGANIZATIONS AND BODIES
(CHRONOLOGICALLY; HOME AND INTERNATIONAL ORGANIZATIONS AND BODIES)

Membership of scientific societies:
Croatian Botanical Society, 2016-
Japanese Society of Plant Physiology, 2009-

Croatian Society of Plant Biology, Secretary, 2003 – 2007, Treasurer, 1997-1998.
Croatian Biological Society 1885
Croatian Society for Electron Microscopy, Treasurer, 1996-1998.
Croatian Society for Biochemistry and Molecular Biology
The Protein Society
Federation of American Societies for Experimental Biology (FASEB)
Federation of European Societies of Plant Biology (FESPB)

Reviewer of Scientific Journals:
American Journal of Botany, Australian Journal of Botany, Journal of Integrative Plant Biology, Journal of Drug Delivery Science and Technology, Langmuir, Acta Chimica Slovinica, Croatica Chemica Acta, BioTechniques, Sciencia Horticulturae, African Journal of Biotechnology, African Journal of Agricultural Research, RSC Advances, International Journal of Biochemistry and Biotechnology, Plant Cell Reports, Food Research International, Nordic Journal of Botany, Acta Physiologia Plantarum, Physiologia Plantarum, Food Technology and Biotechnology, Food & Function, Natural Product Research, Pharmaceutical Biology, Journal of the American Society for Horticultural Science, Molecules, Frontiers in Plant Sciences, South African Journal of Botany, Journal of Plant Growth Regulation, The Brazilian Journal of Pharmacognosy, Biomolecules, Plants

Reviewer of Books:
- Elektroforetske tehnike istraživanja proteina, Biljane Balen et al. 2010. (University book, on Croatian)
- OD AKTUALIZMA I KATASTROFIZMA DO KREACIONIZMA: ili kako se iz jedne znanstvene paradigme izrodio jedan protuznanstveni svjetonazor, Ivan Gušić (2016)

Reviewer of project proposals:
- HAZU projects, 2014.-
- UNIOS-ZUP projects, 2018.
- The Czech Science Foundation, 2019.

COMMISSIONS, COMMITTEES, BOARDS AND WORK GROUPS
(CHRONOLOGICALLY; HOME AND INTERNATIONAL)

Editorial Boards:

Topic Editor together with Arnd J. Kuhn, Giuseppe Fenu, Hazem M. Kalaji: The effect of Climate Change on Crops and Natural Ecosystems for MDPI journals Agriculture, Agronomy, Forests Plants, Stresses, 2022-2023
Journal of Plant Growth Regulation, Review Editor, 2021-
Plants, Editorial Board Member, 2020.-
Frontiers in Plant Science, Review Editor for Plant Physiology, 2019.-
Acta Botanica Croatica, Advisory board, 2020-
Acta Botanica Croatica, EdCh, 2014.-2019.
Acta Botanica Croatica, Section Editor for biochemistry and molecular biology, 2009.-2014.

Editor of Conference Proceedings:
Abramić, M., Maksić, Z., Salopek-Sondi, B., Tomić, S., Vianello, R. (eds.): The 5th Central European Conference - Chemistry towards Biology, Zagreb: Institut Ruđer Bošković, 2010

Other Boards and Committees:

Member of panel of Croatian Scientific Foundation, 2020-
Member of Board of Croatian Biological Society, 2013-
Member of numerous committees for academic and professional promotions, 2007-
Member of Commercial board Of Ruđer Bošković Institute, 2015.-
Head of scientific board of Biology at Ruđer Bošković Institute, 2016.-2019.
Member of National scientific board in the field of life sciences – biology, 2017.-

PAPERS
(CHRONOLOGICALLY; RESEARCH BOOKS, HOME AND INTERNATIONAL RESEARCH JOURNALS, HOME AND INTERNATIONAL CONFERENCE PROCEEDINGS; **PLEASE WRITE THEIR IMPACT FACTOR**)

Editorial Book:

1. Abramić, M., Maksić, Z., **Salopek-Sondi, B.**, Tomić, S., Vianello, R. (ur.): The 5th Central European Conference - Chemistry towards Biology, Zagreb: Institut Ruđer Bošković, 2010 (Book of abstracts).

Book chapters:

2. **Salopek-Sondi B.***, Tkalec M., Bauer N., Jasprica N., Goreta Ban S. (2025) Brassicaceae: Stress Responses and Breeding Strategies in Unfriendly Environments. In Plant Stress Tolerance, Vol. 1, Jen-Tsung Chen J.-T. (ed). Taylor & Francis Group, ISBN 9781032935720, by CRC Press. https://www.routledge.com/Plant-Stress-Tolerace-Molecular-Mechanisms-and-Breeding-Strategies-Two-Volume-Set/Chen/p/book/9781032935720 .

3. Šamec D., **Salopek-Sondi B.** 2018. Cruciferous (Brassicaceae) vegetables. In Nonvitamin and Nonmineral Nutritional Supplements, Nabavi, S.M. and T. Sanches Silva (eds): Elsevier, https://doi.org/10.1016/B978-0-12-812491-8.00027-8, pp. 195-202.

4. **Salopek-Sondi B.***, Pavlović I., Smolko A., Šamec D. (2017) Auxin as mediator in abiotic stress responses, in "Mechanism of Plant Hormone Signaling Under Stress", Girdhar Pandey (Ed), First Edition, Volume 1. John Wiley & Sons, Inc. Hoboken, New Jersey, pp. 3-36.

5. **Salopek-Sondi B**.*: Mikrogomolji krumpira (Solanum tuberosum L.) U Metode u molekularnoj biologiji, Ambriović Ristov, A., Brozović, A., Bruvo Mađarić, B., Ćetković, H., Herak Bosnar, M., Hranilović, D., Katušić Hećimović, S., Meštrović Radan, N., Mihaljević, S., Slade, N., Vujaklija, D. (ur.). Zagreb: Institut Ruđer Bošković, 2007. pp. 128-130.

6. **Salopek-Sondi B.***: Analiza fotosintetskih pigmenata visokotlačnom tekućinskom kromatografijom. U Metode u molekularnoj biologiji, Ambriović Ristov, A., Brozović, A., Bruvo Mađarić, B., Ćetković, H., Herak Bosnar, M., Hranilović, D., Katušić Hećimović, S., Meštrović Radan, N., Mihaljević, S., Slade, N., Vujaklija, D. (ur.). Zagreb: Institut Ruđer Bošković, 2007. pp. 911-912.

7. **Salopek-Sondi B.***: Analiza citokinina visokotlačnom tekućinskom kromatografijom. U Metode u molekularnoj biologiji, Ambriović Ristov, A., Brozović, A., Bruvo Mađarić, B., Ćetković, H., Herak Bosnar, M., Hranilović, D., Katušić Hećimović, S., Meštrović Radan, N., Mihaljević, S., Slade, N., Vujaklija, D. (ur.). Zagreb: Institut Ruđer Bošković, 2007. pp. 913-916.

Journal papers:

1. Sondi I., Leonardi A., Križaj I., Kazazić S., **Salopek-Sondi B**., Škapin S.D.* (2025) Morphogenesis of aragonite biomineral structures by the nonclassical colloidal crystal growth mechanism revisited on the nanoscale: the Noah's Ark shell (*Arca noae*, L.) case study. *ACS Biomaterials Science & Engineering*, 11, 866-874 https://doi.org/10.1021/acsbiomaterials.4c01420 .

2. Ortega-Villaizan A.G., King E., Patel M.K., Alonso M.M.P., Scholz S.S., Sakakibara H., Kiba T., Kojima M., Takebayashi Y., Ramos P., Morales-Quintana L., Breitenbach S., Smolko A., **Salopek-Sondi B.**, Bauer N., Müller-Ludwig J., Krapp A., Oelmüller R., Vicente-Carbajosa J., Pollmann S.* (2024) The endophytic fungus *Serendipita indica* alters auxin distribution in *Arabidopsis thaliana* roots through alteration of auxin transport and conjugation to promote plant growth. *Plant, Cell & Environment* 47, 3899-3919. https://doi.org/10.1111/pce.14989; *bioRxiv* 2024.01. 23.576781. https://doi.org/10.1101/2024.01.23.576781

3. Smolko A., Jülke S., Benade F., Široká J., Pěnčík A., Vuk T., Bauer N., **Salopek-Sondi B.**, Ludwig-Müller J.* (2024) The GH3 protein from the clubroot pathogen *Plasmodiophora brassicae* causes hormone-related phenotypes in *Arabidopsis thaliana*. *Journal of Plant Growth Regulation,* 43, 2715–2738. https://doi.org/10.1007/s00344-024-11300-3.

4. Smolko A., Repar J., Matković M., Pavlović I., Pěnčík A., Novák O., Ludwig-Müller, J., **Salopek-Sondi B.*** (2024) Application of Long-Chained Auxin Conjugates Influenced Auxin Metabolism and Transcriptome Response in *Brassica rapa* L. ssp. *pekinensis*. *International Journal of Molecular Sciences* 25, 447. https://doi.org/10.3390/ijms25010447

5. Šunić K., Brkljačić L., Vuković R., Katanić, Z., Salopek-Sondi B., Španić V*. (2023) Fusarium Head Blight Infection Induced Responses of Six Winter Wheat Varieties in Ascorbate-Glutathione Pathway, Photosynthetic Efficiency and Stress Hormones. *Plants* 2023, 12, 3720. https://doi.org/10.3390/plants12213720

6. Benković-Lačić T*, Orehovec I., Mirosavljević K., Benković R., Ćavar Zeljković S., Štefelová N., Tarkowski P., **Salopek-Sondi B.** (2023) Effect of drying methods on chemical profile of chamomile (*Matricaria chamomilla* L.) flowers. *Sustainability* 2023, 15, 15373. https://doi.org/10.3390/su152115373

7. Lukšić K., Mucalo A., Smolko A., Brkljačić L., Marinov L., Katarina Hančević K., Ozretić Zoković M., Bubola M., Maletić E., Karoglan Kontić J., Karoglan M., **Salopek-Sondi B.**, Goran Zdunić G.* (2023) Biochemical Response and Gene Expression to Water Deficit of Croatian Grapevine Cultivars (*Vitis vinifera* L.) and a Specimen of *Vitis sylvestris*. *Plants* 2023, 12, 3420. https://doi.org/10.3390/plants12193420

8. Lučić D., Pavlović I., Brkljačić L., Bogdanović S., Farkaš, V., Cedilak A., Nanić L., Rubelj I., **Salopek-Sondi B.*** (2023) Antioxidant and Antiproliferative Activities of Kale (*Brassica oleracea* L. var. *acephala* DC.) and Wild Cabbage (*Brassica incana* Ten.) Polyphenolic Extracts. *Molecules* 28, 1840. https://doi.org/10.3390/molecules28041840

9. Antunović Dunić J., Mlinarić S.*, Pavlović I., Lepeduš H., **Salopek-Sondi B.** (2023) Comparative Analysis of Primary Photosynthetic Reactions Assessed by OJIP Kinetics in Three Brassica Crops after Drought and Recovery. *Applied Sciences* 13, 3078. https://doi.org/10.3390/app13053078

10. Duvnjak J., Brkljačić L., **Salopek Sondi B.**, Španić V. (2023) Morpho-physiological and hormonal response of different winter wheat varieties to drought stress at germination and seedling stage. *Agronomski Glasnik* 6/2022, 277-293.

11. Duvnjak J., Lončarić A., Brkljačić L., Šamec D., Šarčević H., **Salopek-Sondi B**., Španić V. (2023) Winter weat varieties' under drought stress: morho-physiological and hormonal response. *Plants* 2023, 12, 418. https://doi.org/10.3390/plants12030418

12. Huđ A., Šamec D., Senko H., Petek M., Brkljačić L., Lazarević B., Udiković-Kolić N., Mešić A., Rajnović I., Palijan G., **Salopek-Sondi B**., Petrić I. (2023) Response of White Cabbage (*Brassica oleracea* var. *capitata*) to Single and Repeated Short Term Waterlogging. *Agronomy* 2023, 13, 200. https://doi.org/10.3390/agronomy13010200

13. Lukić I., Išić N., Ban D., **Salopek-Sondi B.**, Goreta Ban S*. (2023) Comprehensive volatilome signature of various Brassicaceae species. *Plants* 2023, 12, 177. https://doi.org/10.3390/plants12010177

14. Bauer N., Tkalec M., Major N., Talanga Vasari A., Tokić M., Vitko S., Ban D., Goreta Ban S*., **Salopek-Sondi B.*** (2022) Mechanisms of Kale (*Brassica oleracea* var. *acephala*) Tolerance to Individual and Combined Stresses of Drought and Elevated Temperature. *International Journal of Molecular Sciences* 2022, 23(19), 11494; https://doi.org/10.3390/ijms231911494

15. Zeiner, M.; Juranović Cindrić, I.; Nemet, I.; Franjković, K.; **Salopek-Sondi, B.** (2022) Influence of Soil Salinity on Selected Element Contents in Different Brassica Species. *Molecules* 27(6), 1878; https://doi.org/10.3390/molecules27061878

16. Petrić I., Šamec D., Karalija E., **Salopek-Sondi B.** (2022) Beneficial Microbes and Molecules for Mitigation of Soil Salinity in Brassica Species: A Review. *Soil systems*, 6, 18. https://doi.org/10.3390/soilsystems6010018

17. Šamec D., Ljubej V., Radojčić Redovniković, I., Fistanić S., **Salopek-Sondi B.** (2022) Low Temperatures Affect the Physiological Status and Phytochemical Content of Flat Leaf Kale (*Brassica oleracea* var. *acephala*) Sprouts. *Foods*, 11, 264. https://doi.org/10.3390/foods11030264

18. Ljubej V., Karalija, E., **Salopek-Sondi B.**, Šamec D. (2021) Effects of short-term exposure to low temperatures on proline, pigments and phytochemicals level in kale (*Brassica oleracea* var. *acephala*), *Horticulturae* 2021, 7, 341. https://doi.org/10.3390/horticulturae7100341

19. Smolko A., Bauer N., Pavlović I., Pěnčík A., Novák O., **Salopek-Sondi B.** (2021) Altered root growth, auxin metabolism and distribution in Arabidopsis thaliana exposed to salt and osmotic stress, *International Journal of Molecular Sciences*, 22, 7993. https://doi.org/10.3390/ijms22157993

20. Ljubej V., Radojčić-Redovniković I., **Salopek-Sondi B.**, Smolko A., Roje S., Šamec D. (2021) Chilling and freezing temperature stress differently influence glucosinolates content in Brassica oleracea var. acephala. *Plants* 10, 1305. https://doi.org/10.3390/plants10071305

21. Šamec D., Linić I., **Salopek-Sondi B.** (2021) Salinity stress as an elicitor for phytochemicals and minerals accumulation in selected leafy vegetables of Brassicaceae. *Agronomy*, 11, 361. https://doi.org/10.3390/agronomy11020361

22. Šamec D., Karalija E., Šola I., Vujčić Bok V., **Salopek-Sondi B.** (2021) The role of polyphenols in abiotic stress response: the influence of molecular structure. *Plants*, 10, 118. https://doi.org/10.3390/plants10010118

23. Linić I., Šamec D., Grúz J., Vujčić Bok V., Strnad M., **Salopek-Sondi B.*** (2019). Involvement of phenolic acids in short-term adaptation to salinity stress is species specific among Brassicaceae. *Plants*, 8, 155; https://doi.org/10.3390/plants8060155

24. Pavlović, I., Tarkowski, P., Prebeg T, Lepeduš, H., **Salopek-Sondi B.*** (2019) Green spathe of Peace lily (Spathiphyllum wallisii): an assimilate source for developing fruit. *South African Journal of Botany*, 124, 54-62. https://doi.org/10.1016/j.sajb/2019.04.014

25. Pavlović I., Mlinarić S., Tarkowská D., Oklestková J., Novák O., Lepeduš H., Vujčić Bok V., Radić Brkanac S., Strnad M., **Salopek-Sondi B.*** (2019) Early Brassica crops responses to salinity stress: a Comparative Analysis between Chinese cabbage, White cabbage and Kale. *Frontiers in Plant Science* 10:450. https://doi.org/10.3389/fpls.2019.00450

26. Šamec D.*, Urlić B., **Salopek-Sondi B.** (2019) Kale (*Brassica oleracea* var. *acephala*) as a superfood: review of the scientific evidence behind the statement. *Critical Reviews in Food Science and Nutrition* 59, 2411–2422. https://doi.org/10.1080/10408398.2018.1454400

27. Pavlović I., Petřík I., Tarkowska D., Lepeduš H., Vujčić V., Radić Brkanac S., Novák O.*, **Salopek-Sondi B.*** (2018) Correlations between phytohormones and drought tolerance in selected Brassica crops: Chinese cabbage, white cabbage and kale, *International Journal of Molecular Sciences*, 19, 2866; https://doi.org/10.3390/ijms19102866

28. Smolko A., Ludwig-Müller J., **Salopek-Sondi B***. (2018) Auxin Amidohydrolases – From Structure to Function: Revisited. *Croatica Chemica Acta*, 91(2), 233–239. https://doi.org/10.5562/cca3356

29. Šamec D.*, Pavlović I., Radojčić-Redovniković I., **Salopek-Sondi B.** (2018) Comparative analysis of phytochemicls and activity of endogenous enzymes associated with their stability, bioavaibility and food quality in five Brassicaceae sprouts. *Food Chemistry*, 269, 96-102. https://doi.org/10.1016/j.foodchem.2018.06.133

30. Pavlović I., Pěnčík A., Novák O., Vujčić V., Radić Brkanac S., Lepeduš H., Strnad M., **Salopek-Sondi B.*** (2018) Short-term salinity stress response of Brassica rapa caused changes in auxin metabolism. *Plant Physiology and Biochemistry* 125, 74-84. https://doi.org/10.1016/j.plaphy.2018.01.026

31. Čadež V., Škapin S. D., Leonardi A., Križaj I., Kazazić S., **Salopek-Sondi B.**, Sondi I. (2017): Formation and morphogenesis of a cuttlebone's aragonite biomineral structures for the common cuttlefish (Sepia officinalis) on the nanoscale: Revisited. *Journal of Colloid and Interface Science* 508, 95–104.

32. Šamec D., Pavlović I., **Salopek-Sondi B.*** (2017) White cabbage (Brassica oleracea var. capitata f. alba): botanical, phytochemical and pharmacologicall overwiev. *Phytochemistry Reviews* 16, 117-135. https://doi.org/10.1007/s11101-016-9454-4

33. Karačić Z., Vukelić B., Ho G.H., Jozić I., Sučec I., **Salopek-Sondi B.**, Kozlović M., Brenner S.C., Ludwig-Müller J., Abramić M. (2017) A novel plant enzyme with dual activity: an atypical Nudix hydrolase and a dipeptidyl peptidase III. *Biological Chemistry* 398, 101-112. https://doi.org/10.1515/hsz-2016-0141

34. Mikleušević A., Primožić I., Hrenar T., **Salopek-Sondi B.**, Tang L., Majerić Elenkov M. (2016) Azidolysis of Epoxides Catalysed by the Halohydrin Dehalogenase from

Arthrobacter sp. AD2 and a Mutant with Enhanced Enantioselectivity: an (S)-selective HHDH., *Tetrahedron-Asymmetry* 27, 930–935. https://doi.org/10.1016/j.tetasy.2016.08.003

35. Smolko A., Šupljika F., Martinčić J, Jajčanin-Jozić N., Grabar-Branilović M., Tomić S., Ludwig-Muller J., Piantanida I., **Salopek-Sondi B.*** (2016) The role of conserved Cys residues in Brassica rapa auxin amidohydrolase: the Cys139 is crucial for the enzyme activity and the Cys320 regulates enzyme stability, *Physical Chemistry Chemical Physics* 18, 8890—8900. https://doi.org/10.1039/C5CP06301A

36. Šamec D.*, Maretić M., Lugarić J., Mešić A., **Salopek-Sondi B.**, Duralija B. (2016) Assessment of the differences in the physical, chemical and phytochemical properties of four strawberry cultivars using principal component analysis. *Food Chemistry* 194, 828-834. https://doi.org/10.1016/j.foodchem.2015.08.095

37. Šamec D., Gruz J., Durgo K., Kremer D., Kosalec I., Valek Žulj L., Sanja Martinez S., **Salopek-Sondi B.**, Piljac-Žegarac J. (2015) Molecular and cellular approach in the study of antioxidant/prooxidant properties of Micromeria croatica (Pers.) Schott. *Natural Product Research* (Formerly: *Natural Product Letters*) 29, 1770-1774. https://doi.org/10.1080/14786419.2014.999334

38. Mikleušević A., Hameršak Z., **Salopek-Sondi B.**, Tang L., Janssen D.B., Majerić Elenkov M. (2015) Synthesis of 5-substituted 2-oxazolidinones through the halohydrin dehalogenase catalyzed dynamic kinetic resolution, *Advanced Synthesis & Catalysis* 357, 1709-1714. https://doi.org/10.1002/adsc.201500111

39. Šamec D*., Durgo K., Gruz J., Kremer D., Piljac-Žegarac J., **Salopek-Sondi B.** (2015) Genetic and phytochemical variability of six *Teucrium arduini* L. populations and their antioxidant/prooxidant behavior examined by biochemical, macromolecule-and cell-based approaches. *Food Chemistry* 186, 298-305. https://doi.org/10.1016/j.foodchem.2014.07.135

40. **Salopek-Sondi B.**, Pollmann S., Gruden K., Oelmüller R., Ludwig-Müller J. (2015) Improvement of root architecture under abiotic stress through control of auxin homeostasis in Arabidopsis and Brassica crops. *Journal of Endocytobiosis and Cell Research* 26, 100-111.

41. Šamec D., Bogović M., Vincek D., Martinčić J., **Salopek-Sondi B.*** (2014) Assessing the authenticity of the white cabbage (Brassica oleracea var. capitata f. alba) cv. 'Varaždinski' by molecular and phytochemical markers, *Food Research International* 60, 266–272. https://doi.org/10.1016/j.foodres.2013.07.015

42. **Salopek-Sondi B.***, Šamec D, Mihaljević S., Smolko A., Pavlović I., Janković I., Ludwig-Müller J. (2013) Influence of stress hormones on auxin homeostasis in Brassica rapa seedlings, *Plant Cell Reports*, 32, 1031-1042. https://doi.org/10.1007/s00299-013-1412-7

43. Mihaljević S., **Salopek-Sondi B.*** (2012) Amide conjugate of Indole-3-butyric acid improves rooting of highbush blueberry. *Plant Soil and Environment*, 58, 236-241. https://doi.org/10.17221/34/2012-PSE

44. Majerić Elenkov M., Primožič I., Hrenar T., Smolko A., Čićak M., Dokli I., **Salopek-Sondi B.**, Tang L. (2012) Catalytic activity of halohydrin dehalogenases towards spiroepoxides. *Organic & Biomolecular Chemistry*, 10, 5063-5072. https://doi.org/10.1039/c2ob25470k

45. Brcko A., Penčik A., Magnus V., Prebeg T., Mlinarić S., Antunović J., Lepeduš H., Cesar V., Strnad M., Rolčik J., **Salopek-Sondi B.*** (2012) Endogenous auxin profile in the Christmas rose (Helleborus niger L.) flower and fruit: Free and amide conjugated IAA, *Journal of Plant Growth Regulation* 31, 63–78. https://doi.org/10.1007/s00344-011-9220-1

46. Vukelić B., **Salopek-Sondi B.**, Špoljarić J., Sabljić I., Meštrović N., Agić D., Abramić M. (2012) Reactive cysteine in the active-site motif of Bacteroides thetaiotaomicron dipeptidyl peptidase III is a regulatory residue for the enzyme activity, *Biological Chemistry* 393, 37-46. https://doi.org/10.1515/BC-2011-193

47. **Salopek-Sondi B.*** (2011) Reproductive development of the Christmas rose (Helleborus

niger L.): The role of plant hormones, *Croatica Chemica Acta* 84, 277-285

48. Špoljarić J., Tomić A., Vukelić B., **Salopek-Sondi B.**, Agić D., Tomić S., Abramić M., (2011) Human dipeptidyl peptidase III: site-directed mutagenesis proves the importance of Asn406 for ligand binding and hydrolysis, *Croatica Chemica Acta* 84, 259-268

49. Sondi I., **Salopek-Sondi B.**, Škapin D.S., Šegota S., Jurina I., Vukelić B. (2011) Colloid-chemical processes in growth and design of bio-inorganic aragonite structure in scleractinian coral Cladocora caespitosa, *Journal of Colloid and Interface Science* 354, 181-189

50. **Salopek-Sondi B.**, Piljac-Žegarac J., Magnus V., Kopjar N. (2010) Free radical scavenging activity and DNA damaging potential of auxins IAA and 2-methyl-IAA evaluated in human neutrophils by the alkaline comet assay. *Journal of Biochemical and Molecular Toxicology* 24, 165-173.

51. Ayele B. T., Magnus V., Mihaljević S., Prebeg T., Čož-Rakovac R., Ozga J. A., Reinecke D. M., Mander L. N., Kamiya Y., Yamaguchi S., **Salopek-Sondi B.*** (2010) Endogenous gibberellin profile during Christmas rose (Helleborus niger L.) flower and fruit development. *Journal of Plant Growth Regulation* 29, 194-209.

52. Penčik A., Rolčik J., Novak O., Magnus V., Bartak P., Buchtik R., **Salopek-Sondi B.**, Strnad M. (2009) Isolation of novel indole-3-acetic acid conjugates by immunoaffinity extraction. *Talanta* 80, 651-655.

53. Savić B., Tomić S., Magnus V., Gruden K., Barle K., Grenković R., Ludwig-Müller J., **Salopek-Sondi B.*** (2009) Auxin amidohydrolases from Brassica rapa cleave the alanine conjugate of indolepropionic acid as a preferable substrate: a biochemical and modeling approach. *Plant and Cell Physiology* 50, 1577-1589.

54. Špoljarić J., **Salopek-Sondi B.**, Makarević J., Vukelić B., Agić D., Šimaga Š., Jajčanin-Jozić N., Abramić M. (2009) Absolutely conserved tryptophan in M49 family of peptidases contributes to catalysis and binding of competitive inhibitors. *Bioorganic Chemistry* 37, 70-76.

55. Mikleušević G., **Salopek-Sondi B.**, Luić M. (2009) Arab-1, a GDSL lipase from the model plant, Arabidopsis thaliana (L.) Heynh., *Croatica Chemica Acta* 82, 439-447.

56. Sondi I., Škapin S., **Salopek-Sondi B.** (2008) Biomimetic precipitation of nanostructured colloidal calcite particles by enzyme catalyzed reaction in the presence of magnesium ions. *Crystal Growth & Design* 8, 435-441.

57. **Salopek-Sondi B.**, Vukelić B., Špoljarić J., Šimaga Š.,Vujaklija D., Makarević J., Jajčanin N., Abramić M. (2008) Functional tyrosine residue in the active center of human dipeptidyl peptidase III, *Biological Chemistry* 389, 163-167.

58. **Salopek-Sondi, B.**, Magnus, V. (2007) Developmental studies in the Christmas rose (Helleborus niger L.), *International Journal of Plant Developmental Biology* 1, 151-159. (review)

59. Tarkowski P., Tarkowska D., Novak O., Mihaljević S., Magnus V., Strnad M., **Salopek-Sondi B.*** (2006) Cytokinins in the perianth, carpels and developing fruit of Helleborus niger L., *Journal of Experimental Botany* 10, 2237-2247.

60. Sondi I.*, **Salopek-Sondi B.** (2005) The influence of primary structure of enzymes on the formation of CaCO3 polymorphs: A comparison of plant (Canavalia ensiformis) and bacterial (Bacillus pasteurii) ureases, *Langmuir* 21, 8876-8882.

61. Sondi I.*, **Salopek-Sondi B.** (2004) Silver nanoparticles as antimicrobial agent: a case study on E-coli as a model for Gram-negative bacteria, *Journal of Colloid and Interface Science* 275, 177-182.

62. Magnusson U., **Salopek-Sondi B.**, Luck L. A., Mowbray S. L. (2004) X-ray structures of the leucine-binding protein illustrate conformational changes and the basis of ligand specificity, *Journal of Biological Chemistry* 279, 8747-8752.

63. Luck L. A., Moravan M. J., Garland J. E., **Salopek-Sondi B**., Roy, D. (2003) Chemisorptions of bacterial receptors for hydrophobic amino acids and sugars on gold for

biosensor applications: A surface plasmon resonance study of genetically engineered proteins. *Biosensors and Bioelectronics* 19, 249-259.

64. **Salopek-Sondi B.**, Vaughan M. D., Skeels M. C., Honek J. F., Luck L. A. (2003) 19F NMR studies of the leucine-isoleucine-valine binding protein: evidence that a closed conformation exists in solution, *Journal of Biomolecular Structure & Dynamics* 21, 235-246.

65. **Salopek-Sondi B.**, Skeels M. C., Swartz D., Luck L. A. (2003) Insight into the stability of the hydrophobic binding proteins of Escherichia coli: Assessing the proteins for use as biosensors, *Proteins-Structure, Function, and Genetics* (novi naziv: *Proteins- Structure, Function and Bioinformatics*) 53, 273-281.

66. **Salopek-Sondi B.**, Adams P. S., Swartz D., Luck L. A. (2002) Exploring the role of amino acid-18 of the leucine binding proteins of E. coli., *Journal of Biomolecular Structure & Dynamics* 20, 381-388.

67. **Salopek-Sondi B.**, Luck L.A. (2002) 19F NMR Study of the leucine specific binding protein of E. coli: Mutagenesis and assignment of the 5-fluorotryptophan labeled residues. *Protein Engineering* (novi naziv: *Protein Engineering Design & Selection*) 15, 855-859.

68. **Salopek-Sondi B.**, Kovač M., Prebeg T., Magnus V. (2002) Developing fruit direct post-floral morphogenesis in Helleborus niger L. *Journal of Experimental Botany* 53, 1949-1957.

69. **Salopek-Sondi B.**, Kovač M., Ljubešić N., Magnus V. (2000) Fruit initiation in Helleborus niger L. triggers chloroplast formation and photosynthesis in the perianth. *Journal of Plant Physiology* 157, 357-364.

70. Nigović, B., Antolić, S., Kojić-Prodić, B., Kiralj, R., Magnus, V., **Salopek-Sondi B.** (2000) Correlation of structural and physico-chemical parameters with the bioactivity of alkylated derivatives of indole-3-acetic acid, a phytohormone (auxin). *Acta Crystallographica Section B* 56, 94-111.

71. Skeels, M.C., **Sondi, B.S.**, Luck, L.A. (1999) F-19 NMR study of the binding of fluorinated diethylstibestrol to the human estrogen receptor. *Protein and Peptide Letters* 6, 149-154.

72. Kojić-Prodić, B., Magnus, V., Antolić, S., Tomić, S., **Salopek-Sondi, B.** (1999) Structure/activity correlations for auxins. *Acta Botanica Croatica* 58, 27-37.

73. Antolić S., **Salopek B.**, Kojić-Prodić B., Magnus V., Cohen J.D. (1999) Structural characterization and auxin properties of dichlorinated indole-3-acetic acids. *Plant Growth Regulation* 27, 21-31.

74. Wrischer M., Ljubešić N., **Salopek B.** (1998) The role of carotenoids in the structural and functional stability of the thylakoids in plastids of dark-grown spruce seedlings. *Journal of Plant Physiology* 153, 46-52.

75. **Salopek B.**, Wrischer M., Ljubešić N., Magnus V. (1998) Greening of non-transformed and Agrobacterium rhizogenes transformed adventitious potato roots. *Biologia* 53, 127-132.

76. **Salopek, B.**, Tramišak-Milaković, T., Mihaljević, S., Jelaska, S. (1997) Storage product accumulation during the maturation of Picea omorika (Panc.) Purk. somatic embryos. *Periodicum Biologorum* 99, 117-124.

77. Wrischer, M., Ljubešić, N., **Salopek, B.** (1996) Fibrillar and tubular structures in chromoplasts. *Journal of Computer-Assisted Microscopy* 8, 213-214.

78. Lukinić, S., **Salopek, B.,** Tomašević, D., Wrischer, M. (1994) Development of photosynthetic activity in plastids of greening roots. *Periodicum Biologorum* 96, 397 - 400.

79. **Salopek, B.**, Ljubešić, N. (1994) The fine structure of pepper chromoplasts: the effect of bleaching herbicides. *Acta Botanica Croatica* 53, 7-13.

Social news and others:

80. **Salopek-Sondi, B.** (2024). Chlorophyll a fluorescence measurements in Croatia • the

first twenty years. Book review. *Acta Botanica Croatica*, 83(2), 179–180. https://www.abc.botanic.hr/index.php/abc/article/view/4088

81. **Salopek Sondi, B.*** (2020) The Spiridion Brusina Medal for 2019 has been awarded to German plant biologist Professor Jutta Ludwig-Müller. *Acta Botanica Croatica* 79, S1-S3.

82. Bandurski, S. R., Baraldi, R., Cohen, D. J., Ilić, N., Ludwig-Muller, J., Michalczuk, L., **Salopek-Sondi, B.** (2009) In Memory of Dr. Volker Magnus, Plant Biologist. *Journal of Plant Growth Regulation* 28, 305-308.

83. Iskrić, S., Jelaska, S., Kojić-Prodić, B., Laćan, G., Ljubešić, N., Wrischer, M., **Salopek-Sondi, B.*** (2010) In Memoriam Dr. Volker Magnus. *Acta Botanica Croatica* 69, 125-133.

84. **Salopek-Sondi, B.***, Wrischer, M., Ljubešić, N. (2010) Dr. Volker Magnus. *Periodicum Biologorum* 112, 363-364.

Articles in Book of abstracts:

85. Jurina, I., **Salopek-Sondi, B.**, Škapin, S.D., Sondi, I. (2011) Aragonite in the Mljet lakes: Processes of inorganic precipitation and formation of biogenetic structure of the coral Cladocora caespitosa. Proceedings of the Symposium Branimir Gušić Days: New natural science researches of Mljet island / Durbešić, P.; Benović, A. (ur.). Zagreb. Hrvatska, 315-336.
86. Magnus, V., Ayele, B. T., Mihaljević, S., Reinecke, D. M., Ozga, J. A., **Salopek-Sondi, B.** (2006) Gibberellin biosynthesis in developing fruit of the Christmas rose (Helleborus niger L.), Book of Abstracts, 4th Slovenian Syposium on Plant Biology with international participation / Dolenc Koce, Jasna ; Vodnik, Dominik ; Dermastia, Marina (ur.).Ljubljana, Slovenija : The Slovenian Society of Plant Physiology, 62-63.

Conference proceedings published in journals:

1. Grabar Branilović M., Smolko A., Šupljika F., **Salopek-Sondi B.**, Piantanida I., Tomić S.: Brassica rapa auxin-amidohydrolase: the Mn2+ binding affinities and the active site structure. *European Biophysics Journal*, 44, Issue 1 Suppl. S43–S248. Springer, 166-166 (2015).
2. Grabar Branilović M., Smolko A., Šupljika F., **Salopek-Sondi B.**, Piantanida I., Tomić S.: The active site structure of manganese-containing Brassica rapa auxin-amidohydrolase BrILL2. 29th European Crystallographic Meeting, *Acta Crystallographica A* 71, 210-210 (2015).
3. Šamec D., Kremer D., Gruz J., Piljac-Žegarac J., **Salopek-Sondi B.**: Effect of endemic plants extracts on biological macromolecules. 38th FEBS Congress, Saint Petersburg, Russia, July 6–11, 2013. *FEBS Journal*, Special Issue 208 (Suppl. 1). 509-509 (2013).
4. Savić B., Ludwig-Müller J., Tomić S., Magnus V., **Salopek-Sondi B.**: Characterization of the Brassica rapa auxin amido-hydrolase, BrILL2. 16th Conference of Federation of European Societies of Plant Biology' (FESPB), Tampere, Finland, 17.8.-22.8.2008. *Physiologia Plantarum, Special Issue,* 133, P01-065, (2008).
5. **Salopek-Sondi B.**, Luck L.A.: ^{19}F NMR of the *E. coli* periplasmic binding proteins. *5th European Symposium of the Protein Society*, Florence, Italy 29. 03 – 2. 04. 2003. *Protein Science* 12*, (Suppl. 1)*, 70, (2003).
6. Luck L.A., **Salopek-Sondi B.**, Swartz D.J., Barcomb T.F.: Monitoring the unfolding pathway of the L-leucine binding proteins of *E. coli* by ^{19}F NMR and fluorescence spectroscopy. *5th European Symposium of the Protein Society*, Florence, Italy, 29. 03 - 2. 04. 2003. *Protein Science* 12*, (Suppl. 1)*, 173, (2003).
7. Kojić-Prodić B., Magnus V., Tomić S., Antolić S., **Salopek-Sondi B.**, Dolušić E., Bertoša B.: Molecular recognition of the plant hormone auxin is still a puzzle. *XIX Congress and General Assembly of the International Union of Crystallography*, Geneva, Switzerland, 6-15. 08. 2002. *Acta Crystallographica* A58, (*Suppl.)*, C 139, (2002).
8. Luck L.A., **Salopek-Sondi B.**, Skeels M.C.: Mutagenesis, NMR and protein unfolding studies on the leucine receptors of *E. coli. 4th European Symposium of the Protein Society*, Institut Pasteur, Paris, France, 18-22. 04. 2001. *Protein Science*, 10, (S*uppl.)*, 66 (2001).

9. Antolić S., Kojić-Prodić B., Kiralj R., Magnus V., **Salopek-Sondi B.**: Correlation of structural and physico-chemical parameters with the bioactivity of alkylated derivatives of indole-3-acetic acid, a phytohormone (auxin). *International Symposium: Auxins and Cytokinins in Plant Development*, Prag, Check Republic, 26-30. 07. 1999. *Biologia Plantarum* 42*, (Suppl.),* S27 (1999).
10. Antolić S., Kojić-Prodić B., Magnus V., **Salopek B.**, Tomić S.: Structure-activity correlations for ring-alkylated derivatives of indole-3-acetic acid. *Plant Biology '97*, Vancouver, BC, Canada, 2-6. 08. 1997. *Plant Physiology,* 114**,** (*Suppl. 3*), 158 (1997).

Conference proceedings published in Books of abstracts: more than 100 contributions

(publication record can be found at https://www.croris.hr/osobe/profil/7492)

OTHER RESEARCH ACTIVITIES

(CHRONOLOGICALLY; CHIEF EDITOR OR EDITOR OF RESEARCH BOOK, HOME AND INTERNATIONAL RESEARCH JOURNALS, HOME AND INTERNATIONAL CONFERENCE PROCEEDINGS AND OTHER)

Invited lectures:
1. Wild cabbage (*Brassica incana*): an experimental model to investigate mechanisms of tolerance to abiotic stress. Symposium Croatian Society of Plant Biology, Osijek, 01.12.2023
2. Can we consider a wild cabbage (Brassica incana) as a pool of good genes for climate change adaptation in Brassica crops? 2nd International conference "Food & Climate Change", University North, Koprivnica, October 16- 17.10. 2023.
3. The role of bioactive molecules in the response of Brassica plants to abiotic stresses 1st International conference "Food & Climate Change", University North, Koprivnica, October 15- 16.10. 2021.
4. Plant hormone auxin – The regulator of abiotic stress response in Brassicaceae, Conference of Croatian Society for Biochemistry and Molecular Biology-HDBMB2019 Lovran, 25-28.09.2019.
5. Plant bioactive molecules-antistress therapy for plants and humans, Scientific Festival, 19.10.2017. Sinj.
6. Floral photosynthesis: What can we learn from the Christmas rose (Helleborus niger L.)? plenary lecture at 5th Croatian Botanical Symposium with international participation, Primošten, 22-25.09.2016.
7. How does the cabbage deal with stress? Croatian Botanical Society, Zagreb, 25.02.2016.
8. Auxin amidohydrolases: what do we know about structure, function and regulation? Croatian Society for Plant Biology, Zagreb, 29.06.2015.
9. Auxin amidohydrolases: metallopeptidases involved in the regulation of auxin activity; Palacky University, Olomouc, Czech Republic, 20-22.04.2015.
10. Phytohormone auxin: a mediator of plant stress response, the Congress of the Croatian Society of Biochemistry and Molecular Biology-HDBMB2014 „The Interplay of Biomolecules", Zadar, Croatia, 2014.
11. Plant hormones in the Christmas rose (Helleborus niger L.) reproductive development, The 11th Croatian Biological Congress with International participation, Šibenik, Croatia, 2012.
12. Silver nanoparticles as an antimicrobial agens; Croatian Microbiology Society, Zagreb, 2008.
13. Role of plant hormones in Christmas rose (Helleborus niger L.) flower development; Croatian Society of Plant Physiology, Osijek, 2007.
14. Wheat auxin-amidohydrolase: a regulator of auxin activity in plants; 9. Croatian Biological Congress, Rovinj, Croatia, 2006.
15. How to monitor the conformational changes of proteins?; Group for lipoprotein research, Ruđer Bošković Institute, Zagreb, Croatia, 2003.
16. Structure and conformation of *E. coli* periplasmic proteins; Department of Molecular Biology, Ruđer Bošković Institute, Zagreb, Croatia, 2003.
17. Why do Christmas roses turn green?; Department of Biology, Clarkson University, Potsdam, NY, USA, 2002.
18. Why do Helleborus niger flowers turn green?; Croatian Society of Plant Physiology, Zagreb, Croatia, 2001.

Science popularization activity.
1. Znanstveni krugovi, 2022
2. Errur si umove, radio interview, 2021

3. Iz svijeta znanosti, radio interview, 2019.
4. Slušaj kako zemlja diše, radio interview, 2019
5. Znastvene spoznaje, TV show, 2019
6. Prometej, TV show, 2019
7. European Researchers' Night 2018, Zagreb, Croatia
8. Participation at Open days of Institute Ruđer Bošković 2018, Zagreb-Croatia
9. Participation at Open days of Institute Ruđer Bošković 2017, Zagreb-Croatia
10. Festival znanosti: Biljne bioaktivne molekule-antistres terapija za biljke i za ljude, Sinj 2017.
11. Sudjelovanje u emisji HRT-a "Znanstvene spoznaje: Biljne bioaktivne molekule", 2017.
12. TV show *Third element*: Molecular plant biology, 2016.
13. TV show *Društvena mreža*: 90 years of Acta Botanica Croatica, 2016.
14. TV show *Znanstvena petica*: Acta Botanica Croatica, 90 years of publishing, 2016.
15. Radio show HRT-a "Drag mi je Platon: Acta Botanica Croatica: ulazak u deseto desetljeće", 2016.
16. Participation at Researchers Night 2013 sponsored by FP7 Marie Curie Actions People, 2013
17. Participation at Open days of Institute Ruđer Bošković 2013, Zagreb-Croatia, topic: "The magnificent world of plant molecules", 2013
18. Guest in TV show School hour with topic "Plant molecules for human health", 2012
19. Participation at The exhibition of scientific photography, organized by Developmental agency of Istria, 2012.
20. Guest in TV show School hour with topic "Botanical gardens", 2011

COMPUTER SKILLS

MS Office package, Corel, Photoshop

ADDITIONAL INFORMATION AND NOTES

Salopek Sondi B. has published: 1 editorial book, 6 book chapters, 86 original scientific papers published in journals indexed by WoSCC and Scopus.

She has participated with more than 100 presentations on the national and international scientific meetings.

She has performed 18 invited lectures.

Sum of times cited according to WoSCC (01/ 2025): 6717

Sum of times cited according to Scopus (01/ 2025): 7629

Sum of times cited according to Google Scholar (01/ 2025): 11373

h-index WoSCC, Scopus, Google Scholar: 25, 25, 30

Salopek Sondi B. has long term experience in plant physiology and molecular biology, particularly stress biology, with focus to plant hormones role in plant growth and stress; regulation of auxin activity, particularly through the process of reversible conjugation; she has expertise in protein biochemistry and collaborate in interdisciplinary research.