CURRICULUM
VITA



Name: Ron Mittler Ph.D.

Position: Professor (7/2010), Tenured (7/2006).

Google Scholar H-index = 114, i10-index = 223, Total citations = more than 104,000; Highly Cited Researcher (11 years in a row). ScholarGPS Number 1 highly ranked scholar for reactive oxygen species. Lifetime ranked number 3 for reactive oxygen species and number 5 for Abiotic Stress.

ACADEMIC TRAINING AND APPOINTMENTS:

1986-1989, **Hebrew University of Jerusalem, Agriculture, B.A. (Cum Laude)**
1989-1990, **Hebrew University of Jerusalem, Botany, M.Sc.**
Advisor: Professor Elisha Tel-Or
1990-1993, **Rutgers, The State University of New Jersey, Ph.D.**
Advisor: Professor Barbara A. Zilinskas
1993-1996, **Center for Agricultural Molecular Biology, Rutgers University.**
Position: Postdoctoral Fellow
Advisor: Professor Eric Lam
1996-2000, **Department of Plant Sciences, Hebrew University, Jerusalem**
Position: Senior Lecturer (Assistant Professor); 2008-2012 (Adjunct Professor)
2000-2002**, Department of Biology, Technion – Israel Institute of Technology**
Position: Senior Lecturer (Assistant Professor)
2001-2003, **Department of Botany, Iowa State University.**
Position: Assistant Professor
2003-2010, **Department of Biochemistry & Molecular Biology, University of Nevada.**
Position: Tenured Associate Professor
2010-2018, **Department of Biological Sciences, University of North Texas.**
Position: Tenured Professor
2018- **Division of Plant Science and Technology, Interdisciplinary Plant Group and Department of Surgery, University of Missouri.**
Position: Tenured Professor
2022- **Division of Plant Science and Technology, Interdisciplinary Plant Group and Department of Surgery, University of Missouri.**
Position: Curators' Distinguished Professor
2026- **Tel-Hai University of Kiryat Shamona and the Galilee, Kiryat Shamona, 1220800, Israel.**
Position: TProfessor

PROFESSIONAL ACTIVITIES:

2005-2016	Monitoring Editor, Plant Physiology.
2006	Editor, Special issue on ROS, Plant Physiology.
2007-	Biochemistry Subject Editor, Physiologia Plantarum.
2008-	Advisory Editorial Board, Trends in Plant Science.
2010-2015	Editorial Board Member, Journal of Biological Chemistry.
2011-2023	Scientific Advisory Board, VIB Department of Plant Systems Biology Ghent University, Belgium (2020-23; Chair of the Advisory Board).
2012	Editor Special Issue on Functional Genomics, Physiologia Plantarum.
2016	Editor, Special issue on ROS, Plant Physiology.
2017-2023	Editorial Board Member, Plant & Cell Physiology.
2017	Editor Special Issue on Stress Combination, Physiologia Plantarum.
2018-2025	Editor, Plant J.
2021-	Editorial Board Member, Antioxidants.
2021	Editor Special Issue on Plant Responses to a Changing Climate, Plant J.
2023	Editor Special Issue on Stress Combination, Plant J.
2023	Editor Special Issue on Redox regulation of stress responses, PCE
2023	Co-founder MitoMed, Rockville, MD.
2023	Chair of Advisory Board for the Life Sciences, Ben Gurion University.
2025-	Guest Editor, PNAS.

MEMBERSHIPS IN PROFESSIONAL SOCIETIES:

American Society of Plant Biologists (ASPB)
American Association for the Advancement of Science (AAAS)
Society for Redox Biology & Medicine (SfRBM)

HONORS:

1996-1999	The "Yigal Alon" Fellowship for excellent young scientists.
1998	The "M. Landau" Research Prize for research on PCD in plants.
1998-1999	Rector's list of Excellent Teachers at the Hebrew University.
2001	Jay Philips Foundation Academic Lectureship in Life Sciences.
2000-02	"Cathedra" for excellent young scientists from the Technion.
2007	CABNR Outstanding Research Award.
2014-	Thomson Reuters/Clarivate Analytics Highly Cited Researcher for 11 years
2022-	University of Missouri Curators' Distinguished Professor
2022-24	MU Research Excellence Postdoc Program (REP) Faculty Scholar
2024-	AAAS Fellow
2024	CAFNR Mumford Outstanding Faculty Award
2025	SEC Faculty Achievement Award

LIST OF SCHOLARLY PUBLICATIONS

Google Scholar H-index = 114, i10-index = 224, Total citations = more than 104,000; Highly Cited Researcher (11 years in a row). ScholarGPS Number 1 in lifetime highly ranked scholar for reactive oxygen species, and Number 4 in lifetime highly ranked scholar for abiotic stress.

Theses:

1990 (M.Sc.) Characterization of Hydrogen Peroxide Removal Mechanisms in the Cyanobacterium Synechococcus PCC 7942 (R-2).
Advisor: Professor Elisha Tel-Or.
1993 (Ph.D.) Molecular Characterization of Pea Cytosolic Ascorbate Peroxidase.
Advisor: Professor Barbara A. Zilinskas.

Books Edited:

Oxidative Stress Responses in Plants (eds. **Ron Mittler** and Frank Van Breusegem) Advances in Botanical Research Volume number 105, 2023. Elsevier. ISBN: 9780323913751

Book Chapters:

1. **Mittler, R.** (1998) Cell death in plants. In: When Cells Die, A Comprehensive Evaluation of Apoptosis and Programmed Cell Death, Z. Zakeri, J.Tilly, R.A. Lockshin (eds.), John Wiley & Sons, pp. 147-174.

2. Cheung, A. and **Mittler R.** (2003) Programmed cell death in plants. In: When Cells Die II, A Comprehensive Evaluation of Apoptosis and Programmed Cell Death, Z. Zakeri, J.Tilly, R.A. Lockshin (eds.), John Wiley & Sons. pp. 99-122.

3. **Mittler, R.** and Zilinskas, B. (2003) Active oxygen species in multiple stress situations and protective systems. In: Ecological Studies Vol. 170. Springer, Berlin. pp 51-70.

4. **Mittler, R.** and Shulaev, V. (2003) Programmed cell death in plants: future perspectives, applications and methods. In: Programmed Cell Death in Plants, J. Gray (ed.) Blackwell Publishing. Oxford, UK pp. 251-264.

5. Rizhsky, L. Shulaev, V. and **Mittler, R.** (2004) Measuring apoptosis in plant cells. In: Apoptosis Methods and Protocols, Methods in Molecular Biology. Humana Press. pp. 179-190.

6. Shulaev, V. and **Mittler, R.** (2004) Programmed cell death in plant yeast and bacteria. In: Essentials of Apoptosis. Humana Press. pp. 125-134.

7. **Mittler R.** (2004) The Hypersensitive Response. In: Encyclopedia of Plant and Crop Science (online) Marcel Dekker, Inc. New York. NY

8. **Mittler R.** (2005) Ascorbate Peroxidase. In: Antioxidants and reactive oxygen species in plants. Edited by N. Smirnoff. Blackwell Publishing. Oxford, UK. 87-100.

9. Miller G, Coutu, J. and **Mittler, R.** (2008) ROS signaling in plants. In: Intracellular Signaling in Plants. Edited by Z. Yang. Blackwell Publishing. Oxford, UK. 189-201.

10. **Mittler R**, Blumwald E. "Abiotic Stress." Plant Physiology and Development. By Lincoln Taiz, Eduardo Zeiger, Ian Max. Møller, and Angus Murphy. 6th ed. Sunderland: Sinauer Associates, 2015. 731-61.

11. **Mittler R**, Blumwald E. "Abiotic Stress." Plant Physiology and Development. By Lincoln Taiz, Eduardo Zeiger, Ian Max. Møller, and Angus Murphy. 7th ed. Oxford University Press, 2022. 443-75.

12. Myers RJ, Zandalians SI, **Mittler R.** Live Whole-Plant Detection of Rapidly Accumulating Reactive Oxygen Species Following Applied Stress in *Arabidopsis thaliana.* Ivan Couee (ed.), Plant Abiotic Stress Signaling, Methods in Molecular Biology, vol. 2642:387-401. doi: 10.1007/978-1-0716-3044-0

13. Miller G, **Mittler R** (2023) Plant NADPH Oxidases. Chapter 26 in NADPH Oxidases Revisited: From Function to Structure. Edgar Pick (Ed). Springer, Nature. 445-466. https://doi.org/10.1007/978-3-031-23752-2_26

Research Papers:

1. **Mittler, R.** and Tel-Or, E. (1991) Oxidative stress response and shock proteins in the unicellular cyanobaterium Synechococcus R2 (PCC 7942). Arch. Microbiol. 155, 125-131.

2. **Mittler, R.** and Tel-Or, E. (1991) Oxidative stress response in the unicellular cyanobacterium Synechococcus R2 (PCC 7942). Free Radical Res. Comm. 12, 845-850.

3. **Mittler, R**., Nir, M. and Tel-Or, E. (1991) Antiperoxidative enzymes in Retama and their seasonal variation. Free Radical Res. Comm. 14, 17-25.

4. Rozen, A., **Mittler, R.** and Tel-Or, E. (1992) A unique ascorbate peroxidase activity in the cyanobacterium Synechococcus PCC 7942 (R2). Free Radical Res. Comm. 17, 1-8.

5. **Mittler, R.** and Zilinskas, B. (1991) Purification and characterization of pea cytosolic ascorbate peroxidase. Plant Physiol. 97, 962-968.

6. **Mittler, R.** and Zilinskas, B. (1991) Molecular cloning and nucleotide sequence analysis of a cDNA encoding pea cytosolic ascorbate peroxidase. FEBS Lett. 289, 257-259.

7. **Mittler, R.** and Zilinskas, B. (1992) Molecular cloning and characterization of a gene encoding pea cytosolic ascorbate peroxidase. J. Biol. Chem. 267, 21802-21807.

8. **Mittler, R.** and Zilinskas, B. (1993) Detection of ascorbate peroxidase activity in native gels by inhibition of the ascorbate-dependent reduction of nitroblue tetrazolium. Anal. Biochem. 212, 540-546.

9. **Mittler, R.** and Zilinskas, B. (1994) Regulation of pea cytosolic ascorbate peroxidase and other antioxidant enzymes during the progression of drought stress and following recovery from drought. Plant J. 5, 397-406.

10. **Mittler, R.**, Shulaev, V. and Lam E. (1995) Coordinated activation of programmed cell death and defense mechanisms in transgenic tobacco plants expressing a bacterial proton pump. Plant Cell 7, 29-42.

11. **Mittler, R.** and Lam, E. (1995) In situ detection of nDNA fragmentation during the differentiation of tracheary elements in higher plants. Plant Physiol. 108, 489-493.

12. **Mittler, R.** and Lam, E. (1995) Identification, characterization, and purification of a tobacco endonuclease activity induced upon hypersensitive response cell death. Plant Cell 7, 1951-1962.

13. **Mittler, R**. and Lam, E. (1996) Sacrifice in the face of foes: pathogen-induced programmed cell death in higher plants. Trends Microbiol. 4, 10-15.

14. **Mittler, R.**, Shulaev, V., Seskar, M. and Lam, E. (1996) Inhibition of programmed cell death in tobacco plants during pathogen-induced hypersensitive response at low oxygen pressure. Plant Cell 8, 1991-2001.

15. **Mittler, R.**, Simon, L. and Lam, E. (1997) Pathogen-induced programmed cell death in tobacco. J. Cell Science 110, 1333-1344.

16. **Mittler, R.** and Lam, E. (1997) Characterization of nuclease activities and DNA fragmentation induced upon hypersensitive response cell death and mechanical stress. Plant Mol. Biol. 34, 209-221.

17. **Mittler, R.**, Del Pozo, O., Meisel, L. and Lam, E. (1997) Pathogen-induced programmed cell death in plants: a possible defense mechanism. Developmental Genetics 21, 279-289.

18. **Mittler, R.**, Feng, X. and Cohen, M. (1998) Post-transcriptional suppression of cytosolic ascorbate peroxidase expression during pathogen-induced programmed cell death in tobacco. Plant Cell 10, 461-474.

19. **Mittler, R**., Shulaev, V., Lam, E. and Cohen, M. (1999) Signals controlling the expression of cytosolic ascorbate peroxidase during pathogen-induced programmed cell death in tobacco. Plant Mol. Biol. 39, 1025-1035.

20. **Mittler, R.**, Hallak-Herr, E., Orvar, B.L., Van Camp, W., Willekens, H., Inze, D. and Ellis, B.E. (1999) Transgenic tobacco plants with reduced capability to detoxify reactive oxygen intermediates are hyper-responsive to pathogen infection. Proc. Natl. Acad. Sci. USA. 96, 14165-14170.

21. **Mittler, R**. and Rizhsky, L. (2000) Transgene-induced lesion mimics. Plant Mol. Biol. 44, 335-344. (Cover photo)

22. **Mittler, R.**, Merquiol, E., Hallak-Herr, E., Kaplan, A., and Cohen, M. (2001) Living under a "dormant" canopy: a molecular acclimation mechanism of the desert plant *Retama raetam*. Plant J. 25, 407-416. (Cover photo)

23. Rizhsky, L. and **Mittler, R.** (2001) Inducible expression of bacterio-opsin in transgenic tobacco and tomato plants. Plant Mol. Biol. 46, 313-323.

24. **Mittler, R.** (2002) Oxidative stress, antioxidants, and stress tolerance. Trends Plant Sci. 7, 405-410.

25. Pekker, I., Tel-Or, E. and **Mittler, R.** (2002) Reactive oxygen intermediates and glutathione regulate the expression of cytosolic ascorbate peroxidase during iron-mediated oxidative stress in bean. Plant Mol. Biol. 49, 429-438.

26. Pontier D., **Mittler R.** and Lam E. (2002) Mechanism of cell death and disease resistance induction by transgenic expression of bacterio-opsin Plant J. 30, 499-509.

27. Pnueli, L., Hallak-Herr, E., Rozenberg, M., Cohen, M., Goloubinoff, P., Kaplan, A. and **Mittler, R.** (2002) Molecular and biochemical mechanisms associated with dormancy and drought tolerance in the desert legume *Retama raetam*. Plant J. 31, 319-330.

28. Rizhsky, L. Hallak-Herr, E., Van Breusegem, F., Rachmilevitch, S., Rodermel, S., Inzé, D. and **Mittler, R.** (2002) Double antisense plants with suppressed expression of ascorbate peroxidase and catalase are less sensitive to oxidative stress than single antisense plants with suppressed expression of ascorbate peroxidase or catalase. Plant J. 32, 329-342.

29. Merquiol, E., Hallak-Herr, E., Kaplan, A., Cohen, M. and **Mittler, R.** (2002) Seasonal and diurnal variations in gene expression in the desert legume *Retama raetam* Plant Cell & Environment**.** 25, 1627-1638.

30. Rizhsky, L., Hongjian, L. and **Mittler, R.** (2002) The combined effect of drought stress and heat shock on gene expression in tobacco. Plant Physiol. 130, 1143-1151.

31. Lieman-Hurwitz, J., Rachmilevitch S., **Mittler, R**., Marcus, Y. and Kaplan, A., (2003) Enhanced photosynthesis and growth of transgenic plants that express *ictB*, a gene involved in HCO_3^- accumulation in cyanobacteria. Plant Biotech. J. 1, 43-50.

32. Pnueli, L., Liang, H. and **Mittler, R.** (2003). Growth suppression, abnormal guard cell response, and augmented induction of heat shock proteins in cytosolic ascorbate peroxidase (*Apx1*) - deficient *Arabidopsis* plants. Plant J. 34, 187-203.

33. Rizhsky L, Liang H, **Mittler R.** (2003) The water-water cycle is essential for chloroplast protection in the absence of stress. J. Biol. Chem. 278, 38921-38925.

34. Thornburg, R., Carter, C., Powell, A., Horner, H.H., Rizhsky, L., **Mittler, R.** (2003) A major function of the nectary gland is plant defense against microbial attack. Plant Syst. Evol. 238, 211-218.

35. **Mittler. R**., Vanderauwera, S., Gollery, M., Van Breusegem, F. (2004) The reactive oxygen gene network of plants. Trends Plant Sci. 9, 490-498. (Cover photo)

36. Rizhsky L., Liang H., Shuman J., Shulaev V., Davletova S. and **Mittler R.** (2004) When defense pathways collide: The response of *Arabidopsis* to a combination of drought and heat stress. Plant Physiol. 134, 1683-1696.

37. Rizhsky L., Davletova S., Liang H. and **Mittler R.** (2004) The zinc-finger protein Zat12 isrequired for cytosolic ascorbate peroxidase 1 expression during oxidative stress in *Arabidopsis*. J. Biol. Chem. 279, 11736-11743.

38. Davletova S, Rizhsky L, Liang H, Shengqiang Z, Oliver DJ, Coutu J, Shulaev V, Schlauch K, **Mittler R** (2005) Cytosolic ascorbate peroxidase 1 is a central component of the reactive oxygen gene network of Arabidopsis. Plant Cell 17, 268-281.

39. Davletova S, Schlauch K, Coutu J, **Mittler R** (2005) The zinc-finger protein Zat12 plays a central role in reactive oxygen and abiotic stress signaling in *Arabidopsis*. Plant Physiol. 139, 847-856.

40. Suzuki N, Rizhsky L, Liang H, Shuman J, Shulaev V, **Mittler R** (2005) Enhanced tolerance to environmental stresses in transgenic plants expressing the transcriptional co-activator MBF1. Plant Physiol. 139, 1313-1322.

41. Suzuki N, **Mittler R** (2006) Reactive oxygen species and temperature stresses: A delicate balance between signaling and destruction. Physiol. Plant. 126, 45-51.

42. **Mittler. R** (2006) Abiotic Stress, the Field Environment and Stress Combination. Trends Plant Sci. 11, 15-19.

43. Miller G, **Mittler R** (2006) Could plant HSFs function as hydrogen peroxide sensors? Ann. Bot. 98, 279-288.

44. Bailey-Serres, J., **Mittler, R.** (2006) The Roles of Reactive Oxygen Species in Plant Cells. Plant Physiology Special Issue on Reactive Oxygen Species. Plant Physiol. 141, 311.

45. Gadjev, I., Vanderauwera, S., Gechev, T.S., Laloi, C., Minkov, I.N., Shulaev, V., Apel, K., Inze, D., **Mittler, R.**, Van Breusegem, F. (2006) Transcriptomic footprints disclose specificity of reactive oxygen species signaling in Arabidopsis. Plant Physiol. 141, 436-445.

46. Gollery M, Harper J, Cushman J, Mittler T, Girke T, Zhu J-K, Bailey-Serres J, **Mittler R** (2006) What Makes Species Unique? The Contribution of Proteins with Obscure Features. Genome Biol. 7(7):R57.

47. **Mittler R**, Song L, Coutu J, Coutu A, Ciftci S, Kim YS, Lee H, Stevenson B, Zhu, J-K (2006) Gain- and loss-of-function mutations in *Zat10* enhance the tolerance of plants to abiotic stress. FEBS Lett. 580, 6537-6542.

48. Gollery M, Harper J, Cushman J, Mittler T, **Mittler R** (2007) POFs: what we don't know can hurt us. Trends Plant Sci. 12, 492-496.

49. Ciftci-Yilmaz S, Morsy MR, Song L, Coutu A, Krizek BA, Lewis MW, Warren D, Cushman J, Connolly EL, **Mittler R** (2007) The ear-motif of the C2H2 zinc-finger protein ZAT7 plays a key role in the defense response of Arabidopsis to salinity stress. J Biol Chem. 282, 9260-9268.

50. Koussevitzky S, Nott A, Mockler T.C, Hong F, Sachetto-Martins G, Surpin M, Lim J, **Mittler R**, and Chory J (2007) Multiple signals from damaged chloroplasts converge on a common pathway to regulate nuclear gene expression. Science 316, 715-719.

51. Miller G, Suzuki N, Rizhsky L, Hegie A, Koussevitzky S, **Mittler R** (2007) Double mutants deficient in cytosolic and thylakoid ascorbate peroxidase reveal a complex mode of interaction between reactive oxygen species, plant development and response to abiotic stresses. Plant Physiol. 144, 1777-1785.

52. Rivero RM, Kojima M, Gepstein A, Sakakibara H, **Mittler R**, Gepstein S, Blumwald E (2007) Delayed leaf senescence induces extreme drought tolerance in a flowering plant. Proc Natl Acad Sci U S A. 104, 19631-19636.

53. Ciftci-Yilmaz S, **Mittler R** (2008) The zinc finger network of plants. Cell Mol Life Sci. 65, 1150-1160.

54. Suzuki N, Bajad S, Shuman J, Shulaev V, **Mittler R** (2008) The transcriptional co-activator MBF1c is a key regulator of thermotolerance in Arabidopsis thaliana. J Biol Chem. 283, 9269-9275.

55. Shulaev V, Cortes D, Miller G, **Mittler R** (2008) Metabolomics for plant stress response. Physiol Plant. 132, 199-208.

56. Morsy M, Gouthu S, Orchard S, Thorneycroft D, Harper JF, **Mittler R**, Cushman JC. (2008) Charting plant interactomes: possibilities and challenges. Trends Plant Sci. 13, 183-191.

57. Miller G, Shulaev V, **Mittler R** (2008) Reactive oxygen signaling and abiotic stress. Physiol Plant. 133, 481-489.

58. Horan K, Jang C, Bailey-Serres J, **Mittler R**, Shelton C, Harper JF, Zhu JK, Cushman JC, Gollery M, Girke T (2008) Annotating genes of known and unknown function by large-scale coexpression analysis. Plant Physiol. 147, 41-57.

59. Van Breusegem F, Bailey-Serres J, **Mittler R** (2008) Unraveling the tapestry of networks involving reactive oxygen species in plants. Plant Physiol. 147, 978-984.

60. Luhua S, Ciftci-Yilmaz S, Harper J, Cushman J, **Mittler R** (2008) Enhanced tolerance to oxidative stress in transgenic Arabidopsis plants expressing proteins of unknown function. Plant Physiol. 148, 280-292.

61. Koussevitzky S, Suzuki N, Huntington S, Armijo L, Sha W, Cortes D, Shulaev V, **Mittler R** (2008) Ascorbate peroxidase 1 plays a key role in the response of Arabidopsis thaliana to stress combination. J Biol Chem. 283, 34197-34203.

62. Chaudhary B, Hovav R, Flagel L, **Mittler R**, Wendel JF (2009) Parallel expression evolution of oxidative stress-related genes in fiber from wild and domesticated diploid and polyploid cotton (Gossypium). BMC Evolutionary Biology, 10:378.

63. Tunc-Ozdemir M, Miller G, Kim J, Sodek A, Koussevitzky S, Misra AM, Luhua S, **Mittler R**, Shintani D (2009) Thiamin confers enhanced tolerance to oxidative stress in Arabidopsis. Plant Physiol. 151, 421-32.

64. Chang F-I, Curran A, Woolsey R, Quilici D, Cushman J, **Mittler R**, Harmon A, Harper J, (2009) Proteomic profiling of tandem affinity purified 14-3-3 protein complexes in *Arabidopsis thaliana*. Proteomics 9, 2967-85

65. Miller G, Schlauch K, Tam R, Cortes D, Torres MA,, Shulaev V, Dangl JL, **Mittler R** (2009) The plant NADPH oxidase RbohD mediates rapid, systemic signaling in response to diverse stimuli. Science Signaling. 18;2(84):ra45. (Cover photo)

66. Miller G, Honig A, Stein H, Suzuki N, **Mittler R**, Zilberstein A (2009) Unraveling delta1-pyrroline-5-carboxylate (P5C)/proline cycle in plants by uncoupled expression of proline oxidation enzymes. J Biol Chem. 284, 26482-92.

67. **Mittler R**, Blumwald E (2010) Genetic engineering for modern agriculture: Challenges and perspectives. Ann. Rev. Plant Biol. 61:443-62.

68. Miller G, Suzuki N, Ciftci-Yilmaz S, **Mittler R**. (2010) Reactive oxygen species homeostasis and signalling during drought and salinity stresses. Plant Cell Environ. 33(4):453-67.

69. Vanderauwera S, Suzuki N, Miller G, van de Cotte B, Morsa S, Ravanat JL, Hegie A, Triantaphylidès C, Shulaev V, Van Montagu MC, Van Breusegem F, **Mittler R.** (2011) Extranuclear protection of chromosomal DNA from oxidative stress. Proc Natl Acad Sci U S A. 108(4):1711-6.

70. Shulaev V, Sargent DJ, Crowhurst RN, Mockler TC, Folkerts O, Delcher AL, Jaiswal P, Mockaitis K, Liston A, Mane SP, Burns P, Davis TM, Slovin JP, Bassil N, Hellens RP, Evans C, Harkins T, Kodira C, Desany B, Crasta OR, Jensen RV, Allan AC, Michael TP, Setubal JC, Celton JM, Rees DJ, Williams KP, Holt SH, Rojas JJ, Chatterjee M, Liu B, Silva H, Meisel L, Adato A, Filichkin SA, Troggio M, Viola R, Ashman TL, Wang H, Dharmawardhana P, Elser J, Raja R, Priest HD, Bryant DW Jr, Fox SE, Givan SA, Wilhelm LJ, Naithani S, Christoffels A, Salama DY, Carter J, Girona EL, Zdepski A, Wang W, Kerstetter RA, Schwab W, Korban SS, Davik J, Monfort A, Denoyes-Rothan B, Arus P, **Mittler R**, Flinn B, Aharoni A, Bennetzen JL, Salzberg SL, Dickerman AW, Velasco R, Borodovsky M, Veilleux RE, Folta KM. (2011) The genome of woodland strawberry (Fragaria vesca). Nat Genet. 43(2):109-16.

71. **Mittler R**, Vanderauwera S, Suzuki N, Miller G, Tognetti VB, Vandepoele K, Gollery G, Shulaev V, Van Breusegem F (2011) ROS signaling: The new wave? Trends Plant Sci. 16(6):300-9.

72. Suzuki N, Sejima H, Tam R, Schlauch K, **Mittler R** (2011) Identification of the MBF1 heat-response regulon of Arabidopsis thaliana. Plant J. 66(5):844-51.

73. Zuris J.A, Harir Y., Conlan A.R., Shvartsman M., Tamir S., Paddock M.L., **Mittler R**., Cabantchik Z.I., Jennings P.A., Nechushtai R. (2011). Facile transfer of [2Fe-2S] cluster from a diabetes target to an acceptor protein. Proc. Natl. Acad. Sci. USA, 108(32):13047-52

74. Nechushtai R, Conlan A, Song L, Harir Y, Yogev O, Eisenberg-Domovich Y, Livnah O, Michaeli D, Rosen R, Ma V, Luo Y, Zuris JA, Shulaev V, Paddock ML, Cabantchik I, Jennings PA, **Mittler R** (2012) *Arabidopsis thaliana* ChloroNEET, a Member of the New NEET Family of Human Proteins, is Involved in Development, Senescence and Iron Metabolism. Plant Cell. 24:2139-2154

75. Suzuki N, Miller G, Morales J, Shulaev V, Torres MA, **Mittler R** (2011) Respiratory burst oxidases: The engines of ROS signaling. Curr. Opin. Plant Biol. 14(6):691-9

76. Suzuki N, Koussevitzky S, **Mittler R**, Miller G (2012) ROS and redox signaling in the response of plants to abiotic stress. Plant Cell Environ. 35(2):259-70.

77. **Mittler R**, Finka A, Cuendet FA, Goloubinoff P (2012) How do plants feel the heat? Trends Biochem Sci. 37(3):118-25.

78. Suzuki N, **Mittler R.** (2012) Reactive oxygen species-dependent wound responses in animals and plants. Free Rad Biol Med. 53(12):2269-2276.

79. Suzuki N, Miller G, Sejima H, Harper J, **Mittler R.** (2013) Enhanced seed production under prolonged heat stress conditions in Arabidopsis thaliana plants deficient in cytosolic ascorbate peroxidase 2. J. Exp.

Bot. 64(1):253-63.

80. Luhua S, Hegie A, Suzuki N, Shulaev E, Luo X, Harper J, Cushman J, Gollery M, Girke T, Bailey-Serres J, Stevenson RA, Zhu J-K, **Mittler R**. (2012) Annotating plant genes of unknown function: A large-scale screen for altered tolerance to abiotic stress. Physiol. Plant. 148(3):322-33.

81. Tunc-Ozdemir M, Tang C, Ishka MR, Brown E, Groves NR, Myers CT, Rato C, Poulsen LR, McDowell S, Miller G, **Mittler R**, Harper JF (2013) A cyclic nucleotide-gated channel (CNGC16) in pollen is critical for stress tolerance in pollen reproductive development. Plant Physiol. 161(2):1010-20.

82. Suzuki N, Miller G, Salazar C, Mondal HA, Shulaev E, Cortes DF, Shuman JL, Luo X, Shah J, Schlauch K, Shulaev V, **Mittler R.** (2013). Temporal-spatial interaction between ROS and ABA controls rapid systemic acclimation in plants. Plant Cell. 25(9):3553-69.

83. **Mittler R**, Shulaev V. (2013) Functional genomics, challenges and perspectives for the future. Physiol. Plant. 148(3):317-21.

84. McDowell SC, Akmakjian G, Sladek C, Mendoza-Cozatl D, Morrissey JB, Saini N**, Mittler R**, Baxter I, Salt DE, Ward JM, Schroeder JI, Guerinot ML, Harper JF. (2013) Elemental concentrations in the seed of mutants and natural variants of Arabidopsis thaliana grown under varying soil conditions. PLOS One. 8(5):e63014.

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