Curriculum vitae



Prof. Dr. Heribert Hirt Head of Darwin21 Desert Research Initiative Center for Desert Agriculture Biological and Environmental Science and Engineering Division 4700 King Abdullah University of Sciences and Technology 23955-6900 Thuwal, Saudi Arabia

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Education

67-75	Johannes Kepler Gymnasium Reutlingen, Germany
76-78	Study of Biochemistry, Univ. of Cape Town, South Africa
79-81	Study of Biochemistry, Univ. of Vienna, Austria
1983	Mag. rer. nat. (Univ. of Vienna)
84-87	PhD thesis, Inst. of Biochemistry, Vienna
1987	Post-doctoral fellow, Inst. of Biochemistry, Vienna
1988	Post-doctoral fellow, Dept. Microbiology, Oxford, GB
1991	Assist. Prof. at Inst. of Microbiology and Genetics, Univ. of Vienna
1994	Habilitation in Genetics, Faculty of Natural Sciences, Univ. of Vienna
1995	Sabbatical, Dept. of Mol. Biol., Wageningen, NL
1997	Associated Prof. at Inst. of Microbiology and Genetics, Univ. of Vienna
99-01	Vice-chair of Inst. of Microbiology and Genetics
00-03	Dean of graduate studies, International PhD program of the Vienna Biocenter
00-02	Vice-Director of Gregor-Mendel-Institute, Austrian Academy of Sciences, Vienna
06-07	Head of Department of Plant Mol. Biology, Univ. of Vienna, Austria
08-13	Director of URGV Plant Genomics, Evry, France
14-16	Director of Center of Desert Agriculture, KAUST, Jeddah, KSA

Citations and h-index

298 publications in peer reviewed journals, 8 patents, 26 articles and books Total citations 51,713 (Google Scholar), h-index 103

10 most recent publications:

Shekhawat, K., Fröhlich, K., García-Ramírez, G. X., Trapp, M. A., & Hirt, H. (2022). Ethylene: A Master Regulator of Plant-Microbe Interactions under Abiotic Stresses. *Cells*, *12*(1), 31.

Hirt H, Al-Babili S, Almeida-Trapp M, Martin A, Aranda M, Bartels D, Bennett M, Blilou I, Boer D, Boulouis A, Bowler C, Brunel-Muguet S, Chardon F, Colcombet J, Colot V, Daszkowska-Golec A, Dinneny JR, Field B, Froehlich K, Gardener CH, Gojon A, Gomès E, Gomez-Alvarez EM, Gutierrez C, Havaux M, Hayes S, Heard E, Hodges M, Alghamdi AK, Laplaze L, Lauersen KJ, Leonhardt N, Johnson X, Jones J, Kollist H, Kopriva S, Krapp A, Masson ML, McCabe MF, Merendino L, Molina A, Moreno Ramirez JL, Mueller-Roeber B, Nicolas M, Nir I, Orduna IO, Pardo JM, Reichheld JP, Rodriguez PL, Rouached H, Saad MM, Schlögelhofer P, Singh KA, De Smet I, Stanschewski C, Stra A, Tester M, Walsh C, Weber APM, Weigel D, Wigge P, Wrzaczek M, Wulff BBH, Young IM. (2023) PlantACT! - how to tackle the climate crisis. *Trends Plant Sci.* 28(5):537-543.

Sheikh AH, Nawaz K, Tabassum N, Almeida-Trapp M, Mariappan KG, Alhoraibi H, Rayapuram N, Aranda M, Groth M, Hirt H. (2023) Linker histone H1 modulates defense priming and immunity in plants. *Nucleic Acids Res.* 22;51(9):4252-4265.

Cui G, Konciute MK, Ling L, Esau L, Raina JB, Han B, Salazar OR, Presnell JS, Rädecker N, Zhong H, Menzies J, Cleves PA, Liew YJ, Krediet CJ, Sawiccy V, Cziesielski MJ, Guagliardo P, Bougoure J, Pernice M, Hirt H, Voolstra CR, Weis VM, Pringle JR, Aranda M. (2023) Molecular insights into the Darwin paradox of coral reefs from the sea anemone Aiptasia. *Sci Adv.* 17:9(11):eadf7108.

Blilou I, Hirt H. (2023) Desert plants to stop desertification: To succeed, reforestation projects to reclaim once fertile lands need to consider the local abiotic, biotic, and social factors: To succeed, reforestation projects to reclaim once fertile lands need to consider the local abiotic, biotic, and social factors. *EMBO Rep.* 6;24(2):e56687.

Yu G, Matny O, Gourdoupis S, Rayapuram N, Aljedaani FR, Wang YL, Nürnberger T, Johnson R, Crean EE, Saur IM, Gardener C, Yue Y, Kangara N, Steuernagel B, Hayta S, Smedley M, Harwood W, Patpour M, Wu S, Poland J, Jones JDG, Reuber TL, Ronen M, Sharon A, Rouse MN, Xu S, Holušová K, Bartoš J, Molnár I, Karafiátová M, Hirt H, Blilou I, Jaremko Ł, Doležel J, Steffenson BJ, Wulff BBH. (2023) The wheat stem rust resistance gene Sr43 encodes an unusual protein kinase. *Nat Genet.* 22. doi: 10.1038/s41588-023-01402-1. Epub ahead of print. PMID: 37217714.

Rawat AA, Hartmann M, Harzen A, Lugan R, Stolze SC, Forzani C, Abts L, Reißenweber S, Rayapuram N, Nakagami H, Zeier J, Hirt H.(2023) OXIDATIVE SIGNAL-INDUCIBLE1 induces immunity by coordinating N-hydroxypipecolic acid, salicylic acid, and camalexin synthesis. *New Phytol.* 237(4):1285-1301.

Prall, W., Sheikh, A. H., Bazin, J., Bigeard, J., Almeida-Trapp, M., Crespi, M., Hirt, H., & Gregory, B. D. (2023). Pathogen-induced m6A dynamics affect plant immunity. *The Plant Cell*, koad224. Advance online publication.

Siodmak, A., Shahul Hameed, U. F., Rayapuram, N., Völz, R., Boudsocq, M., Alharbi, S., Alhoraibi, H., Lee, Y. H., Blilou, I., Arold, S. T., & Hirt, H. (2023). Essential role of the CD docking motif of MPK4 in plant immunity, growth, and development. *The New phytologist*, 239(3), 1112–1126.

Alghamdi, A. K., Parween, S., Hirt, H., & Saad, M. M. (2023). Complete genome sequence analysis of plant growth-promoting bacterium, Isoptericola sp. AK164 isolated from the rhizosphere of Avicennia marina growing at the Red Sea coast. *Archives of microbiology*, 205(9), 307.

Distinctions

1988	EMBO fellowship
1993	Award of the Austrian Society of Biochemistry
2001	Wittgenstein Prize
2006	Member of Pauli Institute
2008	Elected Member of EMBO (European Molecular Biology Organization)
2009	ISI Highly Cited Researcher (Plant & Animal Science)

2010	France's 100 most important researchers		
2010-13	•		
2011	King Saud Distinguished Fellow		
2014	ISI Highly Cited Researcher (Plant & Animal Science)		
2014	World's 3000 Most Influential Researchers (Thomson Reuters)		
2024	ISI Highly Cited Researcher (Cross Plant & Animal Science)		
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Scientif	Scientific activities		
97-11	Editorial board member of the Journal of Experimental Botany		
00-03	Coeditor of Protoplasma		
02-09	Coeditor of Topics in Current Genetics		
03-08	Coeditor of Plant and Cell Physiology		
05-08	Coeditor of Molecular Genetics and Genomics		
07-17	Coeditor of Molecular Plant		
2012-	Coeditor of PeerJ		
2013-	Editorial board member of Frontiers of Plant Physiology		
2015-	Editorial board member of Cellular and Molecular Proteomics		
2019-	Editorial board member of MDPI Plants		
2021-	Editorial board member of EMBO Reports		
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Other s	scientific activities		
01-04	Coordinator, EU Program "Cross talk and integration of stress signal transduction"		
2001	Organizer, Plant Protein Phosphorylation, 12-15 September 2001, Vienna, Austria		
	Member of Multi-National Arabidopsis Steering Committee		
	Executive board member of ÖGGT (Austrian Society of Genetics)		
	Member, Safety Committee for Genetically Modified Organisms, Austrian Government		
2004	Organizer, Genomics of Arabidopsis as a Model Plant, 15-17 April 2004, Vienna		
05-	Scientific Advisory Board Member of Göttingen Centre of Molecular Biosciences		
2005	Organizer of International Botanical Congress, 18-21 July 2005, Vienna		
2005	Organizer "Advancing the Genomics Frontier", 24-27 August 2005, Neuchatel		
	President of Austrian Society of Genetics and Gene Technology		
2006	Organizer, Keystone Conference "Abiotic stress in plants", 8-13 April 2006, USA		
2007	Organizer, Gordon Conference "Temperature stress in plants", USA		
2009	Organizer of "Plant Abiotic Stress Tolerance", 8-11 February 2009, Vienna		
2009	Organizer of "Plant Genomics and beyond", 5-8 July 2009, Evry, France		
2011	Organizer of "Proteomics" 21-22 March, Evry, France		
2012	Organizer "Abiotic Stress in Plants, 21-25 February, Vienna, Austria		
2012	Organizer, EPSO-FESPB Conference, 29 July-3 August, Freiburg, Germany		
2015	Organiser, Abiotic Stress Meeting, 29-31 June, Vienna, Austria		
2015	Organiser, Int. Arabidopsis Conference, 5-10 July, Paris, France		
2015	Co-chair, Gordon Research Conference, PTM Networks, 6-10 July, Hongkong, China		
2017	Chair, Gordon Conference, 13-18 August 2017, Hongkong, China		
2018	Co-organizer, The Metaorganism Frontier, 18-22 February, Thuwal, KSA		
2020	Member or ERC Research Panel		
2022-	Speaker, Global Think Tank PlantACT!		
2022	Member of ERC Research Panel		

Co-organizer, UAE Microbiome, 20-22 November, Dubai Co-organizer of PlantACT! Conference, Duesseldorf, Germany Co-Organizer of PlantACT! Conference, Madrid, Spain

2023 2024 2025