Curriculum vitae September 21, 2018

Teemu H. Teeri

- Born 22.7. 1956 in Helsinki, Finland

- B.Sc. 13.12. 1979, University of Helsinki, Finland
- M.Sc. 21.12. 1982, University of Helsinki, Finland
- Ph.D. 22.12. 1988, University of Helsinki, Finland

All degrees are in genetics, the other main subjects being microbiology, biochemistry, chemistry, mathematics and computer science.

Honors, grants:
- University Master thesis award 1982
- Emil Aaltonen Foundation fellowship 1983-1986
- Grants from Harry Federlay Foundation (1983), Finnish Ministry of Education (1984), Oskar Öflund Foundation (1985, 1988) and The Research Foundation for Biotechnology and Brewing Industry (1984, 1988)
- Emmanuel Merck award 1993
- Member of Biocentrum Helsinki 1994-2000
- Centre of Expertise Programme in the Helsinki Region award 1996, 1997
- Member of the Academy of Finland Center of Excellence 'Plant Molecular Biology and Forest Biotechnology Research Unit' 2000-2005
- Member of Biocentrum Helsinki 2001-2007
- Member of the Academy of Finland Center of Excellence 'Plant Signal Research Unit' 2006-2011
- Member of Biocentrum Helsinki 2008-2010
- SPPS Popularization Award 2013

Occupations:
- Research Assistant for Dr. Juhani Lokki and Dr. Anssi Saura, Department of Genetics, University of Helsinki, 1.1. 1981 – 31.12. 1982. (Restriction enzyme analysis of *Pisum sativum* cultivars and *Calamagrostis* species.)
- Research Assistant for Dr. Tapio Palva, Department of Genetics, University of Helsinki, 1.1. – 31.5. 1984. (Plant vectors from Ti-plasmids.)
- Emil Aaltonen foundation research fellow, Department of Genetics, University of Helsinki and Laboratorium Genetica (Prof. Marc Van Montagu), Rijksuniversiteit Gent, Belgium (12 months), 1.6. 1984 – 31.1. 1986. (Plant vectors from Ti-plasmids.)
- Docent in molecular genetics 14.6. 1989.
- Senior scientist in the plant molecular genetics group, Department of Genetics, University of Helsinki, 1.2. 1986 – 30.6. 1990. (Tissue specific and temperature inducible gene expression in plants; Improvement of malting barley by gene transfer.)

- Group leader, Plant molecular biology laboratory, Institute of Biotechnology, University of Helsinki, 1.7. 1990 – 31.3. 1997.
- Research Director, Research Program in Plant Molecular Biology, Institute of Biotechnology, University of Helsinki, 1.4. 1997 – 31.3. 2002.
- **Professor in Plant Breeding, Department of Applied Biology, University of Helsinki, 1.11. 2001 –**
- Professor II (part-time) in Plant Genomics and Molecular Biology, Department of Biology, University of Tromsø, 1.1. 2004 – 30.4. 2007.

Services (among others):
- PhD theses supervised (17)
- PhD theses under supervision (3)
- Prereview for PhD theses (23 times)
- Opponent for PhD theses (16 times)
- Regular reviewer of manuscripts (*Plant Cell, Plant J., Plant Phys., Plant Mol. Biol., PNAS, Planta, Phytochemistry, Transgenic Res., Gene, Biotechnology Letters, PLoS Genetics, J. Exp. Bot., BMC Genomics, BMC Plant Biology, Molecular Biology and Evolution,, Trends In Plant Science* etc.) and grant proposals (Vetenskapsrådet, Sweden; Formas, Sweden; Forskninsrådet, Norway; USDA, USA; NSF, USA; NSERC, Canada; BBSRC, UK)
- Vice director of the Academy of Finland Center of Excellence *Plant Molecular Biology and Forest Biotechnology* 2000-2005
- Chairman of the *Foundation for Forest Tree Breeding* (Finland) 2003 -
- Vice director of the Academy of Finland Center of Excellence *Finnish Centre of Excellence in Plant Signal Research* 2006-2011
- Director of Department of Applied Biology, University of Helsinki 2007-2009

Scientific publications:
- Refereed Journals: 98
- Books, book chapters, proceedings etc.: 37
- Publications in the national forum: 30
- Patent families and patent applications: 9
- Sum of times cited: 3005
- Hirsch-index: 33

Most important collaborators:
- Prof. Victor Albert, University at Buffalo, U.S.A.
- Prof. Paula Elomaa, University of Helsinki, Finland
- Doc. Anna Kärkönen, University of Helsinki, Finland
- Dr. Stefan Martens, Fondazione Edmund Mach, Italy
-Dr. Alberto Cassetta,Italian National Research Council, Institute of Crystallography (CNR-IC), Italy
-Dr. Julian Verdonk, Wageningen University, The Netherlands

Supervisor for M.Sc. theses (in Finnish, *in English):

1. Jussi Uotila 1988: Translation from polycistronic mRNA in plants.
2. Yrjö Helariutta 1989: Spatially and temporally regulated abundant gene products in the petal of Gerbera ray floret.
3. Taina Suntio 1990: In vivo labeling of promoters active in apical meristems by gene fusion vectors.
4. Laura Lindgren 1995: Vector mediated gene transfer from *Hyoscyamus niger* to *Hyoscyamus muticus* in order to increasing scopolamin production.
5. Katja Jouhikainen 1997: Somaclonal variation and increase of scopolamine production by gene transfer of the *h6h* gene in root hair cultures of *Hyoscyamus muticus*.
6. Jussi Joensuu 2000: Isolation and comparison of starchy endosperm specific gene regulatory elements in barley (*Hordeum vulgare* L.).
7. Katja Bengtsson 2001: Effects of UV-B radiation and the plant pathogens *Phytophtora* and *Fusarium* in expression of the genes encoding phenylpropanoid biosynthesis in *Gerbera hybrida*.
8. Suvi Broholm 2004: Function of the *GDEF1*gene in the inflorescence of gerbera.
9. Juha Immanen 2005: Annotation and expression analysis of gerbera *(Gerbera hybrida*) EST collection.
10. Luis Santos 2006: *****Optimization of protein production in plants by agroinfiltration.
11. Hannu Hotti 2008: Biosynthesis of parasorboside in mountain ash (*Sorbus aucuparia* L.).
12. Siri Taalas 2008: Secondary metabolites in the defence of gerbera against grey mold.
13. Jukka-Pekka Verta 2008: Polymorphism in the decay resistance gene *PST-1* in pine (*Pinus sylvestris* L.).
14. Katri Molarius 2008: Biosynthesis and metabolism of the two *Gerbera hybrida* secondary metabolites gerberin and parasorboside.
15. Karel Miettinen 2009: Gerberin/parasorboside β-glucosidase in *Gerbera hybrida*.
16. Soubir Titov 2010: *****Protein-protein interaction assay with split luciferase *in planta*
17. Tiia Turtiainen 2010: Effect of the women consumers' knowledge and of general attitudes on the GM-attitude and effect of the GM-attitude to information desire about genemodified crops: case Marttaliitto
18. Cuong Xuan Nguyen 2012: *****Interference between gerberin/parasorboside and carotenoid biosynthesis
19. Uche Okeke 2012: *****Pine transcriptomics — RNA-Seq data analysis of Scots pine (*Pinus sylvestris*) seedlings subjected to a wounding experiment
20. Zubair Rafique 2013: *****Analysis of Scots pine promoter (*PST-1*) in homologous and heterologous systems via transient expression of luciferase fusions.
21. Jiale Xiang 2014: *Protein-protein interactions of the flavonoid biosynthetic enzymes in *Arabidopsis thaliana*.
22. Raisa Osama 2014: *Identification of a novel CHS-like gene in Gerbera hybrida.

Supervisor for Ph.D. theses:

1. Jukka Kervinen 1994: Structure, intracellular targeting and function of the barley aspartic proteinase. University of Jyväskylä.
2. Yrjö Helariutta 1995: Developmental expression and molecular evolution of the flavonoid biosynthetic genes in *Gerbera hybrida* (Asteraceae). University of Helsinki.

3. Anneli Ritala 1995: Transgenic barley by particle bombardment. (Supervised jointly with Prof. Veli Kauppinen.) University of Helsinki.
4. Pia Runeberg-Roos 1996: Mitochondrial $tRNA^{Trp}$, $tRNA^{Pro}$ and vacuolar aspartic proteinase as components in the protein metabolism of plant cell organelles. University of Helsinki.
5. Paula Elomaa 1996: Genetic modification of flavonoid pathway in ornamental plants. University of Helsinki.
6. Kirsi Törmäkangas 1997: Structure, expression and intracellular targeting of barley aspartic proteinase. University of Helsinki.
7. Mika Kotilainen 2000: Flower development in *Gerbera hybrida*, Asteraceae. University of Helsinki.
8. Roosa Laitinen 2006: The gerbera cDNA microarray: A tool for large-scale identification of genes involved in flower development. (Supervised jointly with Prof. Paula Elomaa.) University of Helsinki.
9. Sanna Seppänen 2007: Interactions between transgenic trees and mycorrhizal and pathogenic fungi. (Supervised jointly with Prof. Kim von Weissenberg.) University of Helsinki.
10. Sanna Koutaniemi 2007: Lignin biosynthesis in Norway spruce: from a model system to the tree. University of Helsinki.
11. Miia Ainasoja 2008: Secondary metabolites in *Gerbera hybrida*. University of Helsinki.
12. Suvi Broholm 2009: The role of MADS and TCP transcription factors in *Gerbera hybrida* flower development. (Supervised jointly with Prof. Paula Elomaa.) University of Helsinki.
13. Xianbao Deng 2013: Development and application of *Tobacco Rattle Virus* induced gene silencing in *Gerbera hybrida*. (Supervised jointly with Prof. Paula Elomaa and Prof. Jari Valkonen) University of Helsinki.
14. Hany Bashandy 2016: Flavonoid metabolomics in *Gerbera hybrida* and elucidation of complexity in the flavonoid biosynthetic pathway. University of Helsinki.
15. Juha Kontturi 2017: Type III polyketide synthases from *Gerbera hybrida*. University of Helsinki.
16. Kean-Jin Lim 2017: Scots pine (*Pinus sylvestris* L.) heartwood formation and wounding stress: A view from the transcriptome. University of Helsinki.
17. Tanja Paasela 2017: The stilbene biosynthetic pathway and its regulation in Scots pine. University of Helsinki.

Supervisor for Ph.D. theses in progress:

1. Satu Ruokolainen: MADS-box family of transcription factors in Gerbera.
2. Inka Juntheikki-Palovaara: Molecular network connected to flower type differentiation in Gerbera. (Supervised jointly with Prof. Paula Elomaa)
3. Lingping Zhu: Identification and characterization of PKS associated enzymes in *Gerbera hybrida*).
4. Minhazur Rahman: Production of alkyl resorcinol and acyl phloroglucinol through type III polyketide synthases in heterologous hosts, and their biofunctional properties.

Research funding:

- Ministry of Agriculture and Forestry
  Modification of starch by gene transfer to barley (shared with Dr. Alan Schulman), 1992–1994: FIM 753.000,-
  Aspartic proteinase of barley, 1992–1994: FIM 793.000,-
- Technology Development Centre (TEKES)
  Targeted modification of enzyme composition in plants, 1991–1992: FIM 801.000,-
- State Research Centre
  Improvement of malting barley, 1993–1996: FIM 600.000,-
- Kemira Agro Oy
  Regulation of plant genes, 1991–1992, 6 man-years.
  Regulation of plant genes (shared with Prof. Mart Saarma), 1993–1996: 4.5 man-years.
- Ministry of Education
  Molecular breeding of economical plants (shared with Prof. Mart Saarma), 1993–1994: FIM 650.000,-
- Academy of Finland, Projects for Novel Industrialization (decision notification n:o 40057)
  Molecular breeding of economical plants (shared with Prof. Mart Saarma), 1994–1996: FIM 693.000,-
- Academy of Finland, Projects for Novel Industrialization (decision notification n:o <*unknown*>)
  Biosynthesis of novel starches in transgenic barley (shared with Dr. Alan Schulman), 1994–1996: FIM 450.000,-
- Academy of Finland, Genome Research Programme (decision notification n:o <*unknown*>)
  Integration and transposition in barley, Subproject 4, 1995–1997: FIM 773.300,-
- Academy of Finland, Research Project (decision notification n:o 46567, 53687)
  Gene regulation and flower development in *Gerbera hybrida* (Asteraceae), 1996–1998: FIM 828.600,-
- Culminatum Oy
  Barley seed as a factory, 1996–1997: FIM 200.000,-
- Academy of Finland, Genome Research Programme (decision notification n:o 59298)
  Retrotransposon vectors for integration and transformation in barley, Subproject 2, 1998–2000: FIM 750.000,-
- Technology Development Centre (TEKES)
  Disease resistance and wood durability in birch and aspen through gene technology (shared with Prof. Kim von Weissenberg), 1998–2001: FIM 2.295.000,- (38% for T.T.)
- Technology Development Centre (TEKES)
  Isolation and regulation of the lignin forming enzymes and their genes in Norway spruce (shared with Prof. Liisa Simola and Doc. Ilkka Kilpeläinen), 1998–2001: FIM 3.040.000,- (33% for T.T.)
- Academy of Finland, Research Project (decision notification n:o 63904)
  Novel functions for MADS box genes in *Gerbera hybrida* (Asteraceae), 1999–2001: FIM 1.567.200,-
- Academy of Finland and matching funds through Ministry of Education
  Plant Molecular Biology and Forest Biotechnology Research Unit, Membership in Centre of Excellence (50% participation), 2000–2002: FIM 430.000,- (annually)
- Technology Development Centre (TEKES)

Functional characterisation of lignin forming enzymes (shared with Prof. Liisa Simola and Doc. Ilkka Kilpeläinen), 2001–2002: FIM 1.800.000,- (33% for T.T.)

- Technology Development Centre (TEKES)
  New cell wall and fibre modifying enzymes from plants; part of a larger project with the Technical Research Centre of Finland VTT (shared with Doc. Yrjö Helariutta), 2001–2002: FIM 1.040.000,- (50% for T.T.)
- Nordtest
  Transgenic raw materials in food production - Detection of transgene and heterologous protein levels, 2001–2003: ca. FIM 110.000,-
- Academy of Finland and matching funds through Ministry of Education
  Plant Molecular Biology and Forest Biotechnology Research Unit, Membership in Centre of Excellence (100% participation), 2003–2005: EUR 104.000,- (annually)
- Technology Development Centre (TEKES)
  Functional characterisation of lignin forming enzymes and their genes in norway spruce (shared with Prof. Liisa Simola and Prof. Ilkka Kilpeläinen), 2003–2004: EUR 330.000,- (33% for T.T.)
- Technology Development Centre (TEKES)
  Fibre modifying proteins from plants; part of a larger project with the Technical Research Centre of Finland VTT (shared with Doc. Yrjö Helariutta), 2003–2004: EUR 106.000,- (75% for T.T.)
- Academy of Finland, Postdoctoral Researcher (decision notification n:o 204196)
  Flower development beyond the ABC model in *Gerbera hybrida*, 2003–2005: EUR 100.000,-
- Academy of Finland (decision notification n:o 207410)
  Metabolic changes in genetically modified plants (shared with Doc. Pia Vuorela and Dr. Kamran Fakhimzadeh), 2004–2007: EUR 503.700,- (37% for T.T.)
- Technology Development Centre (TEKES)
  Ligniinin biosynteesi kuusella, 2005–2006: EUR 138.300,-
- Academy of Finland and matching funds through Ministry of Education
  Plant Molecular Biology and Forest Biotechnology Research Unit, Membership in Centre of Excellence, 2006–2011: EUR 100.000,- (annually)
- Technology Development Centre (TEKES)
  Functional genomics of wood formation (shared with Prof. Yrjö Helariutta and Prof. Jaakko Kangasjärvi), 2005–2007: EUR 1.368.000,- (33% for T.T.)
- Academy of Finland DAAD funding (decision notification n:o 121610)
  Expression systems and biochemical synthesis of phenylpropanoids, 2007–2008: EUR 7.400,-
- Nikolai ja Ljudmila Borisoffin Puutarhasäätiö (private foundation)
  Metabolic profiles as a measure to estimate disease resistance in horticultural plants, 2009-2010: EUR 15.000,-
- Technology Development Centre (TEKES)
  Functional genomics of wood formation II (shared with Prof. Yrjö Helariutta, Prof. Jaakko Kangasjärvi and Doc. Kurt Fagerstedt), 2008–2010: EUR 804.100,- (32% for T.T.)
- Technology Development Centre (TEKES)
  Functional genomics of wood formation III (shared with Prof. Yrjö Helariutta, Prof. Jaakko Kangasjärvi and Doc. Kurt Fagerstedt), 2008–2013: EUR 1.125.000,- (30% for T.T.)
- Academy of Finland (decision notification n:o 139513)

Isolation and characterization of polyketide reductases in plants (shared with Dr. Heiko Rischer), 2011–2014: EUR 472.670,- (for T.T.)

- Academy of Finland DAAD funding (decision notification n:o259706)
  Comparative carpel transcriptomics – deciphering common developmental pathways across flowering plants, 2012-2013: EUR 9000,-
- Academy of Finland (decision notification n:o 264621)
  GENOCHEM: High throughput genetic and chemical analysis of birch wood towards new biorefinery products (shared with six PIs), 2013-2015: EUR 629.185,- (17% for T.T.)
- Academy of Finland (decision notification n:o 307579)
  Genomic Selection: Towards more Efficient, Financially Viable and Resilient Wood Production (shared with Prof. Fred Asiegbu, Prof. Katri Kärkkäinen and Prof. Outi Savolainen), 2017-2020: EUR 312.063.- (for T.T.)

Refereed Journals:

1. Suomalainen, E., Saura, A., Lokki, J. and Teeri, T. 1980: Genetic polymorphism and evolution in parthenogenetic animals. Theor. Appl. Genet., 57:129-132.
2. Teeri, T., Saura, A. and Lokki, J. 1984: Chloroplast DNA from Calamagrostis species by selective lysis of organelles. Hereditas, 101:123-126.
3. Linden, H. and Teeri, T. 1985: Genetic differentiation in the capercaillie, Tetrao urogallus, populations. Hereditas, 102:297-299.
4. Teeri, T.H., Saura, A. and Lokki, J. 1985: Insertion polymorphism in pea chloroplast DNA. Theor. Appl. Genet., 69:567-570.
5. Teeri, T.H., Herrera-Estrella, L., Depicker, A., Van Montagu, M. and Palva, E.T. 1986: Identification of plant promoters in situ by T-DNA mediated transcriptional fusions to the npt-II gene. EMBO J., 5:1755-1760.
6. Lång, H., Teeri, T., Kurkela, S., Bremer, E. and Palva, E.T. 1987: A plasmid vector for simultaneous generation of lacZ protein fusions and npt-II operon fusions in vivo. FEMS Microbiol. Lett., 48:305-310.
7. Kurkela, S., Lehväslaiho, H., Palva, E.T and Teeri, T.H. 1988: Cloning, nucleotide sequence and characterization of genes encoding naphthalene dioxygenase of Pseudomonas putida strain NCIB9816. Gene, 73:355-362.
8. Teeri, T.H., Lehväslaiho, H., Franck, M., Uotila, J., Heino, P., Palva, E.T., Van Montagu, M. and Herrera-Estrella, L. 1989: Gene fusions to lacZ reveal new expression patterns of chimeric genes in transgenic plants. EMBO J., 8:343- 350.
9. Teeri, T.H., Patel, G.K., Aspegren and K., Kauppinen, V. 1989: Chloroplast targeting of NPTII with a pea transit peptide in electroporated barley mesophyll protoplasts. Plant Cell Rep., 8:187-190.
10. Angenon, G., Uotila, J., Kurkela, S.A., Teeri, T.H., Botterman, J., Van Montagu, M. and Depicker, A. 1989: Expression of dicistronic transcriptional units in transgenic tobacco. Mol. Cell. Biol., 9:5676-5684.
11. Salmenkallio, M., Hannus, R., Teeri, T.H. and Kauppinen, V. 1990: Regulation of α-amylase promoter by gibberellic acid and abscisic acid in barley protoplasts transformed by electroporation. Plant Cell Rep., 9:352-355.
12. Elomaa, P., Honkanen, J., Puska, R., Seppänen, P. Helariutta, Y., Mehto, M., Kotilainen, M., Nevalainen, L. and Teeri, T.H. 1993: Agrobacterium mediated transfer of antisense chalcone synthase cDNA to Gerbera hybrida inhibits flower pigmentation. Bio/Technology, 11:508-511.
13. Ritala, A., Mannonen, L., Salmenkallio, M., Kurtén, U., Hannus, R., Aspegren, K., Mendez-Lozano, J., Teeri, T.H. and Kauppinen, V. 1993: Stable transformation of barley tissue culture by particle bombardment. Plant Cell Rep., 12:435-440.

14. Helariutta, Y., Elomaa, P., Kotilainen, M., Seppänen, P. and Teeri, T.H. 1993: Cloning of cDNA coding for dihydroflavonol-4-reductase (DFR) and characterization of dfr expression in the corollas of Gerbera hybrida var. Regina (Compositae). Plant Mol. Biol., 22:183-193.

15. Truve, E., Aaspõllu, A., Honkanen, J., Puska, R., Mehto, M., Hassi, A., Teeri, T.H., Kelve, M., Seppänen, P. and Saarma, M. 1993: Transgenic potato plants expressing mammalian 2'-5' oligoadenylate synthase are protected from potato virus X infection under field conditions. -Bio/Technology, 11:1048-1052.

16. Ritala, A., Aspegren, K., Kurtén, U., Salmenkallio-Marttila, M., Mannonen, L., Hannus, R., Kauppinen, V., Teeri, T.H. and Enari, T.-M. 1994: Fertile transgenic barley by particle bombardment of immature embryos. Plant Mol. Biol., 24:317-325.

17. Suntio, T.M. and Teeri, T.H. 1994: A new bifunctional reporter gene for in-vivo tagging of plant promoters. Plant Mol. Biol. Reporter, 12:43-57.

18. Törmäkangas, K., Kervinen, J., Östman, A. and Teeri, T.H. 1994: Tissue-specific localization of aspartic proteinase in developing and germinating barley grains. Planta 195: 116-125.

19. Holmström, K.-O., Welin, B., Mandal, A., Kristiansdottir, I., Teeri, T.H., Lamark, T., Strøm, A. and Palva, E.T. 1994: Production of the Escherichia coli betaine-aldehyde dehydrogenase, an enzyme required for the synthesis of the osmoprotectant glycine betaine, in transgenic plants. Plant Journal 6:749-758.

20. Kotilainen, M., Helariutta, Y., Elomaa, P., Paulin, L. and Teeri, T.H. 1994: A corolla- and carpel-abundant, nonspecific lipid transfer protein gene is expressed in the epidermis and parenchyma of Gerbera hybrida var. Regina (Compositae). Plant Mol. Biol. 26:971-978.

21. Saito, K., Hamajima, A., Ohkuma, M., Murakoshi, I., Ohmori, S., Kawaguchi, A., Teeri, T.H. and Cronan, J.E. Jr. 1995: Expression of the Escherichia coli fabA gene encoding β-hydroxydecanoyl thioester dehydrase and transport to chloroplasts in transgenic tobacco. Transgenic Research 4:60-69.

22. Aspegren, K., Mannonen, L., Ritala, A., Puupponen-Pimiä, R., Kurtén, U., Salmenkallio-Marttila, M., Kauppinen, V. and Teeri, T.H. 1995: Secretion of a heat-stable fungal β-glucanase from transgenic, suspension-cultured barley cells. Molecular Breeding 1:91-99.

23. Helariutta, Y., Elomaa, P., Kotilainen, M., Griesbach, R.J., Schröder, J. and Teeri, T.H. 1995: Chalcone synthase-like genes active during corolla development are differentially expressed and encode enzymes with different catalytic properties in Gerbera hybrida (Asteraceae). Plant Mol. Biol. 28:47-60.

24. Helariutta, Y., Kotilainen, M., Elomaa, P. and Teeri, T.H. 1995: Gerbera hybrida (Asteraceae) imposes regulation at several anatomical levels during inflorescence development on the gene for dihydroflavonol-4-reductase. Plant Mol. Biol. 28:935-941.

25. Elomaa, P., Helariutta, Y., Griesbach, R.J., Kotilainen, M., Seppänen, P. and Teeri, T.H. 1995: Transgene inactivation in Petunia hybrida is influenced by the properties of the foreign gene. Mol. Gen. Genet. 248:649-656.

26. Salmenkallio-Marttila, M., Aspegren, K., Åkerman, S., Kurtén, U., Mannonen, L., Ritala, A., Teeri, T.H. and Kauppinen, V. 1995: Transgenic barley (Hordeum vulgare L.) by electroporation of protoplasts. Plant Cell Rep., 15:301-304.

27. Elomaa, P., Helariutta, Y., Kotilainen, M. and Teeri, T.H. 1996: Transformation of antisense constructs of the chalcone synthase gene superfamily into Gerbera hybrida: differential effect on the expression of family members. Molecular Breeding, 2:41-50.

28. Truve, E., Nigul, L., Teeri, T.H. and Kelve, M. 1996: The effects of 2-5A on protein synthesis in wheat germ extracts and tobacco protoplasts. Nucleos. Nucleot., 15:1097-1111.

29. Helariutta, Y., Kotilainen, M., Elomaa, P., Kalkkinen N., Bremer, K., Teeri, T.H. and Albert, V. 1996: Duplication and functional divergence in the chalcone synthase gene family of Asteraceae: evolution with substrate change and catalytic simplification. Proc. Natl. Acad. Sci. U.S.A., 93:9033-9038.

30. Kervinen, T., Peltonen, S., Utriainen, M., Kangasjärvi, J., Teeri, T.H. and Karjalainen, R. 1997. Cloning and characterization of cDNA clones encoding phenylalanine ammonia-lyase in barley. Plant Science, 123:143-150.

31. Kervinen, T., Peltonen, S., Teeri, T.H. and Karjalainen, R. 1998: Differential expression of phenylalanine ammonia-lyase genes in barley induced by fungal infection or elicitors. New Phytol., 139:293-300.

32. Elomaa, P., Mehto, M., Kotilainen, M., Helariutta, Y., Nevalainen, L. and Teeri, T.H. 1998: A bHLH transcription factor mediates organ-, region- and flower type specific signals on dihydroflavonol-4-reductase (dfr) gene expression in the inflorescence of Gerbera hybrida (Asteraceae). Plant J., 16:93-99.

33. Eckermann, S., Schröder, G., Schmidt, J., Strack, D., Edrada, R.A., Helariutta, Y., Elomaa, P., Kotilainen, M., Kilpeläinen, I., Proksch, P., Teeri, T.H. and Schröder, J. 1998: New pathway to polyketides in plants. Nature, 396:387-390.

34. Yu, D., Kotilainen. M., Pöllänen, E., Mehto, M., Elomaa, P., Helariutta, Y., Albert, V.A. and Teeri, T.H. 1999: Organ identity genes and modified patterns of flower development in Gerbera hybrida (Asteraceae). Plant J., 17:51-62.

35. Jouhikainen, K., Lindgren, L., Jokelainen, T., Hiltunen, R., Teeri, T.H. and Oksman-Caldentey, K.-M. 1999: Enhancement of scopolamine production in Hyscyamus muticus L. hairy root cultures by genetic engineering. Planta, 208:545-551.

36. Kotilainen, M., Helariutta, Y., Mehto, M., Pöllänen, E., Albert, V.A., Elomaa, P. and Teeri, T.H. 1999: GEG participates in the regulation of cell and organ shape during corolla and carpel development in Gerbera hybrida. Plant Cell, 11:1093-1104.

37. Helenius, E., Boije, M., Niklander-Teeri, V., Palva, E.T. and Teeri, T.H. 2000: Gene delivery into intact plants using the Helios(TM) gene gun. Plant Mol. Biol. Reporter, 18:287a-287l.

38. Kotilainen, M., Elomaa, P., Uimari, A., Albert, V., Yu, D., and Teeri, T.H. 2000: GRCD1, an AGL2-like MADS box gene, participates in the C function during stamen development in Gerbera hybrida. Plant Cell, 12:1893-1902.

39. Törmäkangas, K., Hadlington, J.L., Pimpl, P., Hillmer, S., Brandizzi, F., Teeri, T.H. and Denecke, J. 2001: A vacuolar sorting domain may also influence the way in which proteins leave the endoplasmic reticulum. Plant Cell, 13:2021-2032.

40. Gustafsson, M., Kärkönen,A., Simola, L., Teeri, T.H., Sipilä, J., Kilpeläinen, I. and Brunow, G. 2001: β-Fluoro-coniferyl alcohol does not inhibit lignin biosynthesis in suspension cultures of Picea abies. Phytochemistry, 58:243-248.

41. Kärkönen, A., Koutaniemi, S., Mustonen, M., Syrjänen, K., Brunow, G., Kilpeläinen, I., Teeri, T.H. and Simola, L.K. 2002: Lignification related enzymes in Picea abies suspension cultures. Phys. Plantarum, 114:343-353.

42. Nuutila, A.M., Ritala, A., Salmenkallio-Marttila, M., Aspegren, K., Aikasalo, R., Kurtén, U., Tammisola, J., Teeri, T.H., Mannonen, L. and Kauppinen, V. 2002: Improvement of malting quality of barley by complementing the malt enzyme spectrum. Phytochemistry Reviews 1:135-140.

43. Hirsikorpi, M., Kämäräinen, T., Teeri, T. and Hohtola, A. 2002: Agrobacterium-mediated transformation of round leaved sundew (Drosera rotundifolia L.). Plant Science, 162:537-542.

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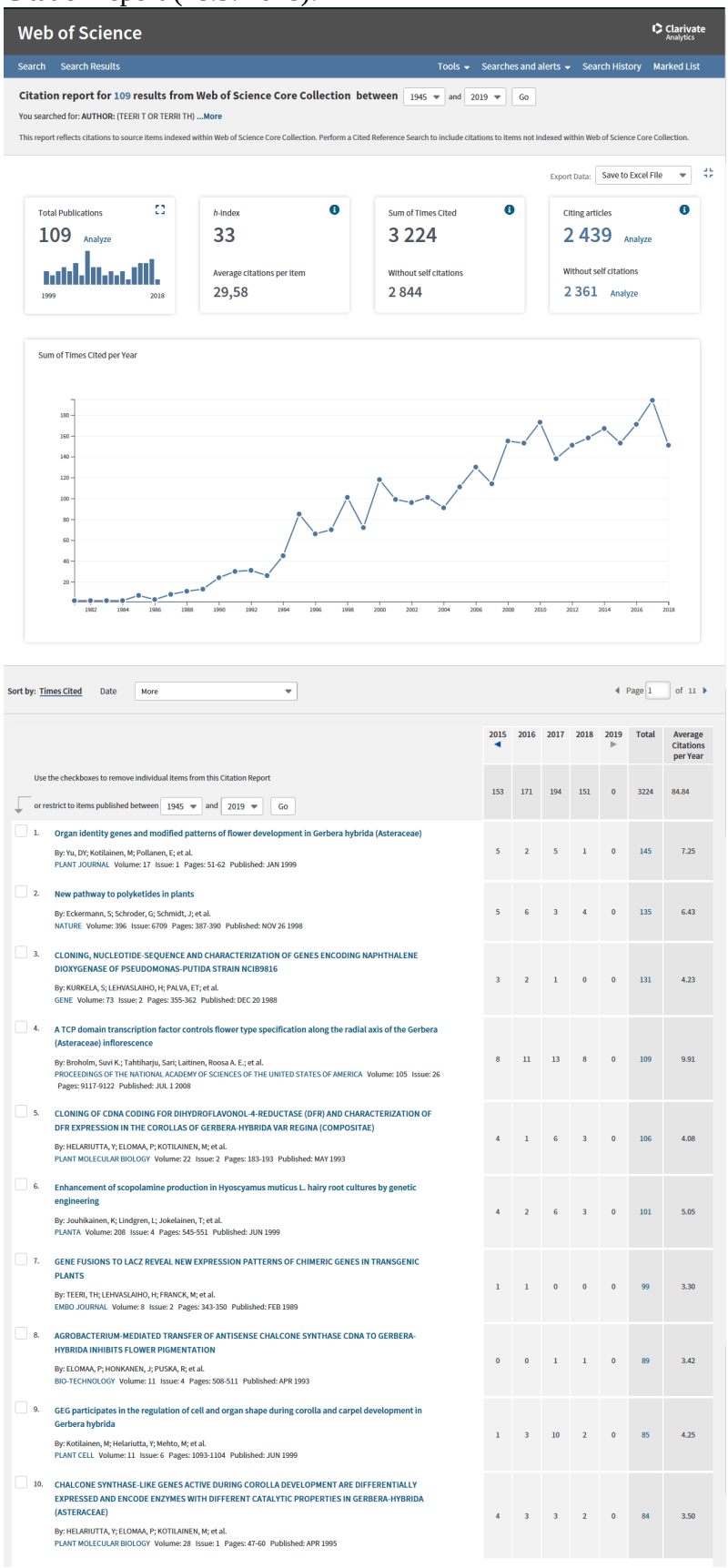

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1. Organ identity genes and modified patterns of flower development in Gerbera hybrida (Asteraceae) By: Yu, DY; Kotilainen, M; Pollanen, E; et al. PLANT JOURNAL Volume: 17 Issue: 1 Pages: 51-62 Published: JAN 1999	5	2	5	1	0	145	7.25
2. New pathway to polyketides in plants By: Eckermann, S; Schroder, G; Schmidt, J; et al. NATURE Volume: 396 Issue: 6709 Pages: 387-390 Published: NOV 26 1998	5	6	3	4	0	135	6.43
3. CLONING, NUCLEOTIDE-SEQUENCE AND CHARACTERIZATION OF GENES ENCODING NAPHTHALENE DIOXYGENASE OF PSEUDOMONAS-PUTIDA STRAIN NCIB9816 By: KURKELA, S; LEHVASLAIHO, H; PALVA, ET; et al. GENE Volume: 73 Issue: 2 Pages: 355-362 Published: DEC 20 1988	3	2	1	0	0	131	4.23
4. A TCP domain transcription factor controls flower type specification along the radial axis of the Gerbera (Asteraceae) inflorescence By: Broholm, Suvi K.; Tahtiharju, Sari; Laitinen, Roosa A. E.; et al. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 105 Issue: 26 Pages: 9117-9122 Published: JUL 1 2008	8	11	13	8	0	109	9.91
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