Andrea Schubert

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Dept. of Agricultural, Forestry and Food Sciences, University of Turin, Italy

❁❁❁❁❁❁ Education

1979	Master (Laurea) Degree in Agriculture, University of Turin , full marks *cum laude*
1981	Specialization Diploma in Viticulture and Enology, University of Turin

❁❁❁❁❁❁❁ Academic appointments

1984 - 1998	Researcher at the University of Turin
1998 - 2006	Associate Professor in Plant Physiology, University of Turin
Since 2006	Full Professor in Plant Physiology at the University of Turin
2002 - 2008	Direction of the Bachelor Course in Viticulture and Enology, University of Turin
2009	Direction of the Master Course in Plant Biotechnology, University of Turin
since 2013	President of the Evaluation Board of the University of Turin
since 2015	Elected Vice-President of the Italian Society of Plant Biology

❁❁❁❁❁❁ Teaching

Plant Physiology and Synthetic Biology, Degree Course of Biotechnology

Plant molecular physiology, Master Course in Plant Biotechnology

❁❁❁❁❁❁❁ Research

1982	visiting scientist at Rothamsted Experimental Station (UK)
1988 -90	visiting scientist at the Botany Department, University of Basel (CH)
1999	visiting scientist at the Julius-Maximilians-Universität Würzburg (D)

Research group leader (www.PlantStressLab.unito.it), PhD supervisor (12), project leader in EU (H2020 SFS-2016 TOMRES) and national research projects (5), and in in bi-national collaboration projects with Germany and Spain (2), direction of contracts with private companies and public bodies (7), participation in two academic spin-off companies (Grape srl and Strigolab srl)

Convener, MACROWINE Turin 2010 and appointed Convener, FESPB Euro Plant Biology Congress, Turin 2020

Member of the Italian Society of Plant Biology

❁❁❁❁❁❁ Research focus

Mobile signals (miRNAs, strigolactones, ABA) in plants upon stress

Plant responses to combined abiotic and biotic stress

Biosynthesis of flavonoids in fruits

❁❁❁❁❁❁❁ Recent research projects

Traceability of Piedmont grape varieties through the analysis of aromatic compounds (CRC Foundation 2009-2011)

Elaboration of an agro-meteorological model to estimate the main quality parameters of grape must - POLIFEMO (Regione Piemonte 2010-2013)

Molecular control of flavonoid modifications in grapevine (AIT/DAAD Vigoni 2011-2013)

Signaling roles of strigolactones at the interface between plants, microorganisms, and a changing environment - SLEPS (UniTO-CSP 2013-2016)

An integrated approach to the control of FD disease in grapevine - INTEFLAVI (CRC Foundation 2014-2017)

A novel and integrated approach to increase multiple and combined stress tolerance in plants using tomato as a model – TOMRES (EC H2020 SFS-2 2017-2020)

❁❁❁❁❁❁❁ Scientific impact

ISI-indexed publications 68 (at 31 March, 2017)

total cites 2035

total cites without self-citation 1928

h-index 26

❁❁❁❁❁❁❁ Recent publications

Hugueney P, Provenzano S, Verriès C, Ferrandino A, Meudec E, Batelli G, Merdinoglu D, Cheynier V, Schubert A and Ageorges A (2009) A novel cation-dependent O-methyltransferase from Vitis vinifera L involved in anthocyanin methylation in grapevine - Plant Physiol 150:2057-2070

Carra A, Mica E, Gambino G, Pindo M, Moser C, Pé ME, Schubert A (2009) Cloning and characterization of small non-coding RNAs from grape - Plant J 59:750:764

Lovisolo C, Perrone I, Carra A, Ferrandino A, Flexas J, Medrano H, Schubert A (2010) Drought-induced changes in development and function of grapevine (Vitis spp) organs and in their hydraulic and non-hydraulic interactions at the whole-plant level: a physiological and molecular update - Funct Plant Biol, 37:98-116

Giribaldi M, Gény L, Delrot S, Schubert A (2010) Proteomic analysis of the effects of ABA treatments on ripening Vitis vinifera berries - J Exp Bot 61:2447-2458

Ferrandino A, Carra A, Rolle L, Schneider A, Schubert A (2012) Profiling of hydroxycinnamoyl tartrates and acylated anthocyanins in the skin of 34 Vitis vinifera genotypes - J Agric Food Chem 68:4931-4945

Perrone I, Pagliarani C, Lovisolo C, Chitarra W, Roman F, Schubert A (2012) Recovery from water stress affects grape petiole transcriptome - Planta 285:1383-1396

Perrone I, Gambino G, Chitarra W, Vitali M, Pagliarani C, Riccomagno N, Balestrini R, Kaldenhoff R, Uehlein N, Gribaudo I, Schubert A, Lovisolo C (2012) The grapevine root-specific aquaporin VvPIP2;4N controls root hydraulic conductance and leaf gas exchange under well-watered conditions but not under water stress - Plant Physiol 160:965-977

Ferrandino A, Carlomagno A, Baldassarre S, Schubert A (2012) Varietal and pre-fermentative volatiles during ripening of V vinifera cv Nebbiolo berries from three growing areas - Food Chem 135:2340-2349

Perrone I, Gambino G, Chitarra W, Vitali M, Pagliarani C, Riccomagno N, Balestrini R, Kaldenhoff R, Uehlein N, Gribaudo I, Schubert A, Lovisolo C (2012) The grapevine root-specific aquaporin VvPIP2;4N controls root hydraulic conductance and leaf gas exchange under well-watered conditions but not under water stress - Plant Physiol 160:965-977

Liu J, Novero M, Charnikova T, Ferrandino A, Schubert A, Ruyter-Spyra C, Bonfante P, Lovisolo C, Bouwmeester HC, Cardinale F (2013) CAROTENOID CLEAVAGE DIOXYGENASE 7 modulates plant growth, reproduction, senescence and determinate nodulation in the model legume Lotus japonicus - J Exp Bot 64:1967-1981

Navarro-Rodenas A, Barzana G, Nicolàs E, Carra A, Schubert A, Morte A (2013) Expression analysis of aquaporins from desert truffle mycorrhizal symbiosis reveals a fine-tuned regulation under drought - Mol Plant Microbe Interactions 26:1066-1078

Chitarra V, Balestrini R, Vitali M, Pagliarani C, Perrone I, Schubert A, Lovisolo C (2014) Gene expression in vessel-associated cells upon xylem embolism repair in Vitis vinifera L petioles - Planta 239:887-899

Margaria P, Ferrandino A, Caciagli P, Kedrina O, Schubert A, Palmano S (2014) Time course metabolic and transcript analysis of the flavonoid pathway in Nebbiolo and Barbera grapevines (Vitis vinifera L) infected by Flavescence dorée phytoplasma and recovered - Plant Cell Environm, 37:2183-2200

Provenzano S, Spelt C, Hosokawa S, Nakamura N, Brugliera F, Demelis L, Geerke DP, Schubert A, Tanka Y, Quattrocchio F, Koes R (2014) Genetic control and evolution of anthocyanin methylation - Plant Physiol, 165:962-977

Liu J, He H, Vitali M, Charnikowa T, Visentin I, Haider I, Schubert A, Ruyter-Spira C, Bouwmeester H, Lovisolo C, Cardinale F (2015) Osmotic stress affects strigolactone biosynthesis in Lotus japonicus roots as a requisite to stress-induced ABA accumulation and independently of P availability. Planta, 241:1435:1451

Giordano D, Provenzano S, Ferrandino A, Vitali M, Pagliarani C, Roman F, Cardinale F, Castellarin SD, Schubert A (2016) Characterization of a multifunctional caffeoyl-CoA methyltransferase activated in grape berries upon drought stress. Plant Physiol Biochem 101:23-32

Li Y, Provenzano S, Bliek M, Spelt C, Appelhagen I, Machado L, Verweij W, Schubert A, Sagasser M, Seidel T, Weisshaar B, Koes R, Quattrocchio F (2016) Evolution of tonoplast P-ATPase transporters involved in vacuolar acidification. New Phytol. 211:1092-1107

Chitarra W, Pagliarani C, Maserti B, Lumini E, Siciliano I, Cascone P, Schubert A, Gambino G, Balestrini R, Guerrieri E (2016) Insights on the impact of arbuscular mycorrhizal symbiosis on tomato tolerance to water stress. Plant Physiol. 171: 1009-1023.

Visentin I, Vitali M, Ferrero M, Zhang Y, Ruyter-Spira C, Novak O, Strmad M, Lovisolo C, Schubert A, Cardinale F (2016) Low levels of strigolactones in roots as a component of the systemic signal of drought stress in tomato. New Phytol 212:954:963

Pagliarani C, Vitali M, Ferrero M, Vitulo N, Incarbone M, Lovisolo C, Valle G, Schubert A (2017) The accumulation of miRNAs differentially modulated by drought stress is affected by grafting in grapevine. Plant Physiol. 173: 2180-2195.