

CURRICULUM VITAE

OF

KALLIOPI A. ROUBELAKIS-ANGELAKIS

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Heraklion Crete

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1. UNDERGRADUATE STUDIES

Agric. University of Athens, Greece

B. S. in Plant Sciences

2. GRADUATE STUDIES

University of California, Davis, U.S.A.

M.S. in Horticulture (1975)

M.S. in Food Biochemistry/Technology (1977)

Ph. D. in Plant Molecular Physiology (1977)

3. POSITIONS-EMPLOYMENT

- 1991 - Professor of Plant Physiology and Biotechnology,
Dept. of Biology, University of Crete, Heraklio
- 2009, 1994, Visiting Professor, University of California, Davis
- 1991, 1986, Visiting Professor, University of California, Davis
- 1984
- 1996 Distinguished Professor, University of Adelaide, Australia
- 1985 - 1991 Associate Professor of Plant Physiology,
Dept. of Biology, University of Crete, Heraklio
- 1979-1984 Professor of Horticulture,
Technological Educational Institution, Heraklio
- 1980 - 1981 Post-doctoral Research Associate, University of
California, Davis
- 1978 - 1979 Specialist, Ministry of Agriculture
- 1977 Post-doctoral Research Associate, University of
California, Davis
- 1973 - 1977 Research Assistant, University of California, Davis

4. HONORS- AWARDS- FELLOWSHIPS

- Honorary Member of the Greek Botanical Society (2015)
- Secretary General of the Federation of European Societies of Plant Biology (2004-2012) www.fespb.org.
- Chairperson of the Grants and Awards Committee of the Federation of European Societies of Plant Biology (2002-2004) www.fespb.org.
- President of the Federation of European Societies of Plant Biology (2000-2002) www.fespb.org.
- Editor of the book *Morphogenesis in Plants: Molecular Approaches*, Plenum Publ. Co., N. York, 1993; *Molecular Biology and Biotechnology of the Grapevine*, Kluwer Publ, Amsterdam, 2001, ISBN 0-7923-6949-1, www.wkap.nl/book.htm/0-7923-6949-1.

- Editor of the book *Molecular Biology and Biotechnology of the Grapevine*. Kluwer Academic Publ., The Netherlands. ISBN 0-7923-6949-1, www.wkap.nl/book.htm/0-7923-6949-1.
- Editor of the Book *Grapevine Molecular Physiology & Biotechnology*, Springer Publishers, pp 612. ISBN 978-90-481-2304-9, <http://www.springer.com/978-90-481-2304-9>. The book is one of the top 25% most downloaded eBooks in the relevant Springer eBook Collection in 2013.
- Recipient of the 2002 Prize from the Office Internationale de la Vigne et du Vin, Paris, for the Book *Molecular Biology and Biotechnology of the Grapevine*.
- Recipient of Distinguished Scholar Fellowship by the Federal Government of Australia, November-December 1996.
- Best paper travel award, Amer. Soc. Plant Physiol., Western Section, San Francisco, 1977.
- Invited lecturer (more than 50) in numerous Universities of European countries, U.S.A., China, Australia, Turkey, Iran, Argentina, Morocco, Vietnam.
- Chairperson of the Organizing Committee of the Advanced Study Institute "Plant Morphogenesis: Molecular Approaches", Heraklion, June 1992.
- Chairperson of the Organizing Committee of the 6th International Congress "Physiology and Biotechnology of Grapevine", Heraklion June 2000, www.biology.uoc.gr/meetings/first_ann.htm.
- Chairperson of the Organizing Committee of the 13th International Congress of FESPP, Hersonissos, 2-6 September 2002, www.biology.uoc.gr/meetings/fespp.
- Vice-Chair of the COST Action 0858 'Abiotic and Biotic Stress and Plant Development' (2003-2008), www.bordeaux.inra.fr/cost858/welcome.html.
- Member of the Steering Committee of the COST Action 0605 'Signalling control of stress tolerance and production of stress protective compounds' (2008-2012).
- Member of the Steering Committee of the COST Action FA1106 'An Integrated systems approach to determine the developmental mechanisms controlling fleshy fruit quality in tomato and grapevine' (2012-1016).
- Member of the Steering Committee of the European Nitrogen & Ammonia Assimilation Group.
- Recipient of numerous competitive national, EU and international research grants.
- Member of the European Thematic Biotechnology Network.
- Member of the European Committee for Teaching Biology in Europe.
- Member of numerous International Organizing Committees or Programme Committees for International Congresses.
- Chairperson of numerous scientific sessions in International and National Meetings.
- Member of Thematic Committees and Evaluation Panels in the European Union.

- Member of research proposal evaluation panels in the E.U., U.S.A., the General Secretariat of Research of Greece, the National Scholarship Foundation (I.K.Y.), the Portuguese Foundation for Science and Technology, the Israeli Funding Organization, the Research Promotion Foundation of Cyprus, the International Foundation for Science, and others.
- Member of selection Committees for faculty members in International and National Universities.
- Member of Advisory and Examination Committees for Doctoral Theses, in European, Australian, American, Chinese and Indian Universities.
- Invited Keynote speaker in more than 60 International and National Congresses.
- Referee for several International Scientific Journals (Plant Cell, PLOS ONE, Plant Physiology, Plant Journal, Molecular Breeding, Planta, Physiologia Plantarum, Plant Cell Environment, Transgenic Plants, Journal of Plant Physiology, Plant Physiology and Biochemistry, Journal of Experimental Botany, Plant Cell Tissue Organ Culture, Australian Journal of Plant Physiology, Vitis, American J. Enology Viticulture, Chemosphere, Isr. J. Plant Science, DNA Sequence, Plant Science, FEBS Journal, Amino acids, *In vitro* Cellular Developmental Biology, Plant Molecular Reports, MBC Biology, Nutrients, Journal Plant Growth Development, etc).
- Member of Editorial Review Committees.
- Member of Editorial Committees in scientific journals. Review Editor of *Frontiers Agr Biol Chem.* and Consulting Editor of *Matica Srpska Proceedings for Natural Sciences* (ISSN 0352-4906, COBISS.SR-ID 5845250).
- Member of the Scientific Board of the National Agricultural Research Foundation (1994-1996).
- Vice-Chair of the International Affairs Committee, University of Crete (2005-2008).
- Member of the Steering Committee of the Special Research Funds Account, University of Crete (2005-2008).
- Director of the Section of Organismal Biology, Dept. of Biology, Univ. of Crete (repeatedly).
- Director of the Plant Physiology and Biotechnology Laboratory.
- Director of the Graduate Programme '*Plant Molecular Biology and Biotechnology*, University of Crete (1998-2010), www.biology.uoc.gr/plantmolbiol/biotec.
- Departmental Coordinator of European Educational Programmes (Socrates, Erasmus, Tempus, Alpha (1995-2010), www.uoc.gr/erasmus).
- Honorary scholarship, University of California, Davis, 1974-1977.
- Mentor of more than 30 Graduate Students/Ph.D. Candidates.

5. SCIENTIFIC SOCIETIES MEMBERSHIP

She has been/was member of the following scientific Societies:

- The Federation of European Societies of Plant Physiologists (www.fespb.org)
- The American Society of Plant Biologists (more than 30 years, until 2009)
- The American Society of Enologists and Viticulturists
- The International Society of Plant Molecular Biologists
- The International Society for Horticultural Sciences
- The International Council for Grapevine Viruses
- The International Association of Plant Tissue Culture
- The Sigma Phi Scientific Research Society of North America
- The Greek Society for Biological Sciences
- The Hellenic Botanical Society
- The Greek Geotechnical Chamber

6. SCIENTIFIC MEETINGS

She has participated and/or presented her work in the following Scientific Meetings:

- Annual Meeting of American Society of Plant Physiologists, St. Louis, MI., 1984.
- International Symposium on Grapevine Improvement and *in vitro* Culture, Paris, 1985.
- International Symposium on Biotechnology and Agriculture in Mediterranean Basin, Athens, 1986.
- International Horticultural Congress, Davis, California, U.S.A. 1986.
- International Symposium on Viticulture and Enology, Kecskemet, Hungary, 1986.
- Congress of the Hellenic Society Biological Sciences, Heraklio, 1986.
- International Symposium on Plant Photomorphogenesis, Spetses, 1987.
- Meeting of International Council on Grapevine Viruses, Kiryat Anavim, Israel, 1987.
- International Symposium on Grapevine Diseases, Thessaloniki, 1987.
- Congress of Hellenic Horticultural Society, Thessaloniki, 1987.
- International Symposium on Plant Membranes, Cardiff, England, 1988.
- Congress on Interscientific Approaches of Development, Athens, 1988.
- International Biotechnology Symposium, Paris, 1988.
- International Symposium of Federation of European Societies of Plant Physiologists, Split, Yugoslavia, 1988.
- Meeting of European Institution of Technology, Verona, Italy, 1988.
- ASI Seminar on the Biochemical and Molecular Basis of Plant Aging, Ribadesella, Spain, 1989.
- International Meeting on Grapevine Breeding, Siebeldingen, Germany, 1989.
- VII International Congress on Plant Tissue and Cell Culture, Amsterdam, Holland, 1990.

- 7th Congress of the Federation of European Societies of Plant Physiologists, Umea, Sweden, 1990.
- XXIII International Horticultural Congress, Florence, Italy, 1990.
- International Symposium on Nitrogen in Grapes and Wine, Seattle, WA, 1991.
- 42th Annual Meeting of the American Society of Enology and Viticulture, Seattle, WA, USA, 1991.
- Meeting of International Council on Grapevine Viruses, Nyon, Switzerland, 1993.
- 8th Congress of the Federation of European Societies of Plant Physiologists, Antwerpen, Belgium, 1992.
- ASI on Morphogenesis in Plants: Molecular Approaches, Heraklio, 1992 (Director).
- 5th International Congress of the European Society for Photobiology, Marburg, Germany, 1993.
- 4th International Society of Plant Molecular Biology Congress, Amsterdam, The Netherlands, 1994.
- XXIVth International Horticultural Congress, Kyoto, Japan, 1994.
- 9th Congress of the Federation of European Societies of Plant Physiologists, Brno, Czech Republic, 1994.
- 5th Congress of Hellenic Botanical Society, Delfi, 1994.
- European Colloquium on Evaluation in Biology, Toledo, Spain, March 1995.
- 9th Congress of the Federation of European Societies of Plant Physiologists, Florence, Italy, September 1996.
- 10th Congress of the Feder. of Europ. Soc. of Plant Physiologists, Florence, Italy, September 1996.
- International Grapevine Physiology Congress (invited keynote speaker), Jerusalem, Israel, May 1997.
- First EUROBIO Congress, Florence, Italy, June 1997.
- First Balkan Botanical Congress, Thessaloniki, Hellas, September 1997.
- Second Eurobio Congress, Madrid, June 1998.
- International Congress on Grapevine Genetics, Montpellier, France, July 1998.
- Fifth International Symposium on Inorganic Nitrogen Assimilation. Luso, Portugal, June 1998.
- 11th Congress of the Federation of European Societies of Plant Physiologists, Varna, Bulgaria, September 1998.
- Meeting of the European Biotechnology Network, Brussels, 4-6 September 1998.
- 7th Panhellenic Conference of Hellenic Society of Plant Breeding, Heraklio, Greece, October 1998.
- Genetically Modified Microorganisms in Agriculture, Athens 8-9 December 1998.
- XXII Semana Vitivinicola: II Encuentro Europ. de Reg. Insulare del Vino. 12-13 May 1999, Santa Cruz, Tenerife.

- 9th Symposium "Arts and techniques of Viticulture and Oenology in Northern Greece" organised by the Cultural and Technological Foundation of the National Bank for Industrial Development (ETBA). Drama, Greece, 25-27 June 1999.
- 19th Scientific Congress of the Hellenic Society of Horticulture. 25-27th October 1999. Candia Maris, Heraklion, Greece.
- 3rd Congress of the European Association of University Departments and Faculties of Biology (EUROBIO), Budapest, June 3-5, 1999.
- Cellular responses to oxidative and osmotic stress. Egmond aan Zee, the Netherlands, August 28-September 1, 1999.
- Prospects for Genetics and Breeding. BAZ - Institute for Grapevine Breeding. Geilweilerhof, 76833 Siebeldingen, Germany, July 3-4, 1999.
- International Symposium On Muscats-Approaching The XXI th Century, November 6-7, 1999, Canelli (Asti), Italy 1999.
- 6th International Symposium on Grapevine Physiology and Biotechnology, Heraklion, Crete, 11-16 June 2000.
- 12th Congress of the Federation of European Societies of Plant Physiology, Budapest, 21-25 August 2000.
- 6th International Symposium on Inorganic Nitrogen Assimilation, Reims, France, 8-12 July 2001.
- 5th International Conference on Oxygen, free radicals and oxidative stress in plants. Nice, France, 19-21 November 2001.
- 13th Intern Congress of the Federation of European Societies of Plant Biology, Hersonissos, Crete, Greece, 2-6 September 2002.
- International Congress on Free Radicals and Oxidative Stress, 26-28 June 2003, Ioannina, Greece.
- Conference on "Plant Stress, Reactive Oxygen and Antioxidants", Freising-Weiherstephan, September 10-13, 2003.
- International Conference on Monitoring Systems and Technologies for Water Treatment, Buenos Aires, Argentina, 19-23 April 2004.
- First COST858 Meeting on Abiotic Stress, Ascona, Switzerland, 29 April-1 May 2004.
- 7th International Conference on Inorganic Nitrogen Assimilation, Wageningen, The Netherlands, 23-25 June 2004.
- 14th Intern Congress of the Federation of European Societies of Plant Biology, Krakow, Poland, 23-27 August 2004.
- 2nd EPSO Congress, Ischia, Italy, 2004.
- 2nd COST858 Meeting on Abiotic Stress, Mallorca, Spain, 8-10 September 2004.
- 4th COST858 Meeting on Gene Functional Gene Analysis in Grapevine, Geilweilerhof, Germany, 6-7 October 2005.
- 2nd Meeting on Malvasias, Heraklion, 29-30 September 2005.

- O.I.V. International Meeting, Logroño, Spain, June 25th, 2006.
- Breeding and Biotechnology of Grapevine Meeting, Udine, Italy, 2 July 2006.
- International Biotechnology Congress, Hammamet, Tunisia, 25-29 March 2006.
- 15th Intern Congress of the Federation of European Societies of Plant Biology, Lyon, France, 16-20 July 2006, www.fespb2006.org.
- Abiotic stress and grape functional genomics. Workshop COST 858. Prague, Czech republic, September 14-16, 2006, <http://c858w.ueb.cas.cz>.
- Grape bioinformatic workshop, Bordeaux, France, November 16 -17, 2006 (<http://www2.univ-poitiers.fr/cost858/news/>).
- Understanding the genetic and molecular basis of quality and production traits in grapevine: From traits to genes and backwards. Logroño, La Rioja (Spain), May 6-8 th, 2007.
- NITROGEN2007 Meeting, Lancaster, U.K., 27 July-1 August 2007.
- Signalling control of stress tolerance and production of stress protective compounds Meeting, COST0605, Matera, Italy, 11-14 April 2008.
- Intern Congress on Abiotic Stress in Plants, Santa Helena-Sofia, Bulgaria, 11-17 May 2008.
- Abiotic Stress in Grapevine, COST858 Meeting, Porto, Portugal, 25-28 May, 2008.
- 16th Intern Congress of the Federation of European Societies of Plant Biology, Tampere, Finland, 17-22 August 2008, www.fespb2008.org.
- 17th Intern. Congress of the Federation of European Societies of Plant Biology, Valencia, Spain, 4-10 July 2010, www.fespb2010.org.
- 2nd International Conference on the Role of Polyamines and their Analogs in Cancer and other Diseases', Rome, 1-6 December 2010.
- 'Nitrogen use efficiency in plants: toward models of sustainable agriculture', <http://www.unia.es/Environmentworkshops>, 26-28 September 2011, Baeza, Spain.
- 4th International Workshop - COST ACTION FA0605: [Plant Abiotic Stress: From Systems Biology to Sustainable Agriculture](http://www.plant-biology-congress2012.de/freiburg.html), 18-19 November 2011, Lemessos, Cyprus.
- FESPB/EPSO joint Congress, Freiburg, Germany, 29 July-3 August 2012, <http://www.plant-biology-congress2012.de/freiburg.html>.
- International Congress on Polyamines, Istanbul, September 2012.
- 1st International Meeting - COST ACTION FA1106, Canea, Greece, 1-3 October 2012.
- 2nd International Meeting - COST ACTION FA1106, Canea, Greece, 22-25 September 2013.
- FESPB/EPSO joint Congress, Dublin, Ireland, 22-26 June 2014, <http://europlantbiology.org/>.

- 3rd International Meeting - COST ACTION FA1106, Canea, Greece, 22-25 September 2014.
- 4th International Meeting - COST ACTION FA1106, Lisbon, 2015.
- 5th International Meeting - COST ACTION FA1106, Coimbra, 6-8 September 2016.

7. RESEARCH ACTIVITIES

Her research areas were/are aiming to:

1. Study responses of plants to abiotic stress with emphasis on polyamine and ROS homeostasis by Polyamine oxidases and their metabolic products.
2. Reveal potential factors contributing to recalcitrance of plant protoplasts mostly by performing molecular and biochemical analysis of antioxidant enzymes and endogenous antioxidant biomolecules. Programmed cell death.
3. Study the molecular/physiological function(s) of glutamate dehydrogenase (ammonia assimilation).
4. Develop molecular markers (microsatellites) for *Vitis* genotype identification.

8. TEACHING ACTIVITIES

Prof. Roubelakis-Angelakis has been teaching at the Undergraduate and Graduate level Plant Physiology, Plant Biotechnology, Plant Molecular Physiology of Abiotic Stress, Plant Development and Molecular Nitrogen Metabolism in the University of Crete and as invited Professor in numerous International Universities.

9. LIST OF SCIENTIFIC PUBLICATIONS

A. DISSERTATIONS

1. Roubelakis, K.A. 1975. Effect of Controlled Temperature, Light Intensity and some Growth Regulators on Fruit-set, Fertilization of Ovules and Berry Development of Several *Vitis-vinifera* L Cultivars. M.S. Thesis, Univ. of California, Davis, pp.48.
2. Roubelakis, K.A. 1977. Changes in the concentrations of free arginine and the activities of ornithine transcarbamoylase and arginase during the early stages of grape berry development (*Vitis vinifera* L. cv Chenin blanc). M.S. special report, Univ. of California, Davis, pp. 14.
3. Roubelakis, K.A. 1977. Enzymes of Krebs-Henseleit Cycle in *Vitis vinifera* L. Ph.D. Dissertation, Univ. of California, Davis, pp. 120.

B. PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS

4. Roubelakis, K.A. and W.M. Kliewer. 1976. Influence of light intensity and of some growth regulators on fruit-set and ovule fertilization in grape cultivars under low temperature conditions. **Amer. J. Enol. Vitic.** 27: 163-167.
5. Roubelakis, K.A. and W.M. Kliewer. 1978. Enzymes of Krebs-Henseleit Cycle in *Vitis vinifera* L. I. Ornithine transcarbamoylase: isolation and some properties. **Plant Physiol.** 62: 337-339.
6. Roubelakis, K.A. and W.M. Kliewer. 1978. Enzymes of Krebs-Henseleit Cycle in *Vitis vinifera* L. II. Arginosuccinate synthetase and lyase. **Plant Physiol.** 62: 340-343. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1092122/pdf/plntphys00870-0024.pdf>
7. Roubelakis, K.A. and W.M. Kliewer. 1978. Enzymes of Krebs-Henseleit Cycle in *Vitis vinifera* L. III. *In vivo* and *in vitro* studies of arginase. **Plant Physiol.** 62: 344-347. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1092123/pdf/plntphys00870-0028.pdf>
8. Roubelakis K.A. and W.M. Kliewer. 1978. Changes in the activities of ornithine transcarbamoylase and arginase and the concentrations of nitrogenous substances during germination and seedling development of *Vitis vinifera* L. **Vitis** 17: 377-385.
9. Roubelakis-Angelakis, K.A. and W.M. Kliewer. 1979. The composition of bleeding sap from Thompson seedless grapevines as affected by nitrogen fertilization. **Amer. J. Enol. Vitic.** 30: 14-18.
10. Roubelakis-Angelakis, K.A. and W.M. Kliewer. 1981. Influence of nitrogen fertilization on activities of ornithine transcarbamoylase and arginase in Chenin blanc berries at different stages of development. **Vitis** 20: 130-135.
11. Roubelakis-Angelakis, K.A. and W.M. Kliewer. 1983. Ammonia assimilation in *Vitis vinifera* L. I. Isolation and properties of leaf and root glutamate dehydrogenase. **Vitis** 22: 202-210.
12. Roubelakis-Angelakis, K.A. and W.M. Kliewer. 1983. Ammonia assimilation in *Vitis vinifera* L. II. Leaf and root glutamine synthetase. **Vitis** 22: 299-305.
13. Roubelakis-Angelakis, K.A. and W.M. Kliewer. 1984. Ammonia assimilation in *Vitis vinifera* L. III. Glutamate oxaloacetic transaminase from leaf and root tissue. **Vitis** 23: 37-41.
14. Roubelakis-Angelakis, K.A. and W.M. Kliewer. 1985. Phenylalanine ammonia-lyase in *Vitis vinifera* L.: Enzyme extraction and possible sources of error during assaying. **Amer. J. Enol. Vitic.** 36(4): 314-315.
15. Roubelakis-Angelakis, K.A. and W.M. Kliewer. 1986. Effects of exogenous factors on phenylalanine ammonia-lyase activity and accumulation of anthocyanins and total phenolics in Grape Berries (*Vitis vinifera* L. cv Cardinal). **Amer. J. Enol. Vitic.** 37: 275-281.

16. Cook, C.M., T. Lanaras, and K.A. Roubelakis-Angelakis. 1988. Bicarbonate transport and alkalisation of the medium by four species of Rhodophyta. **J. Exp. Bot.** 39(206): 1185-1198.
17. Theodoropoulos, P.A. and K.A. Roubelakis-Angelakis. 1989. Mechanism of arginine transport in *Vitis vinifera* L. protoplasts. **J. Exp. Bot.** 40: 1223-1230.
18. Theodoropoulos, P.A. and K.A. Roubelakis-Angelakis. 1990. Progress in isolation and culture of leaf protoplasts from virus free axenic shoot cultures of *Vitis vinifera* L. **Plant Cell Tiss. Org. Cult.** 20: 15-23.
19. Loulakakis, K.C. and K.A. Roubelakis-Angelakis. 1990. Intracellular localization and properties of NADH-Glutamate dehydrogenase from *Vitis vinifera* L.: Purification and characterization of the major isoenzyme. **J. Exp. Bot.** 41(231): 1223-1230.
20. Loulakakis, K.A. and K.A. Roubelakis-Angelakis. 1990. Immunocharacterization of NADH-Glutamate dehydrogenase from *Vitis vinifera* L. **Plant Physiol.** 94:109-113. <http://www.plantphysiol.org/content/94/1/109.full.pdf>
21. Theodoropoulos, P.A. and K.A. Roubelakis-Angelakis. 1991. Glucose transport in *Vitis vinifera* L. protoplasts. **J. Exp. Bot.** 42(237): 477-483.
22. Kanellis, A.K., T. Solomos, and K.A. Roubelakis-Angelakis. 1991. Suppression of cellulase and polygalacturonase and induction of alcohol dehydrogenase isoenzymes in avocado fruit mesocarp subjected to low oxygen stress. **Plant Physiol.** 96: 269-274.
23. Roubelakis-Angelakis, K.A. and S.I. Zivanovitch. 1991. A new culture medium for *in vitro* rhizogenesis of grapevine (*Vitis* spp.) genotypes. **HortSci.** 26: 1551-1553.
24. Katsirdakis, K.C. and K.A. Roubelakis-Angelakis. 1991. Callogenic potentiality of leaf segments and shoot proliferation response of *Vitis* spp. genotypes. **J. Wine Res.** 2(2): 83-95.
25. Loulakakis, K.A. and K.A. Roubelakis-Angelakis. 1991. Plant NAD(H) Glutamate dehydrogenase consists of two subunit polypeptides and their participation in the seven isoenzymes occurs in an ordered ratio. **Plant Physiol.** 97: 104-111.
26. Katsirdakis, K.C. and K.A. Roubelakis-Angelakis. 1992. Modified culture medium and culture conditions increase viability and cell wall synthesis in grapevine (*Vitis vinifera* L. cv Sultanina) leaf protoplasts. **Plant Cell Tiss. Org. Cult.** 28: 255-260.
27. Katsirdakis, K.C. and K.A. Roubelakis-Angelakis. 1992. Ultrastructural and biochemical aspects of cell wall regeneration in recalcitrant and regenerating leaf protoplasts. **In vitro Cell. Dev. Biol.** 28p: 2: 90-96.

28. Benson, E.E. and K.A. Roubelakis-Angelakis. 1992. Fluorescent lipid peroxidation products and antioxidant enzymes in tissue cultures of *Vitis vinifera* L. **Plant Sci.** 84: 83-90.
29. Loulakakis, K.A. and K.A. Roubelakis-Angelakis. 1992. Ammonium-induced increase in NADH-glutamate dehydrogenase activity is caused by *de novo* synthesis of the α -subunit. **Planta** 187: 322-327.
30. Siminis, C.I., A.K. Kanellis, and K.A. Roubelakis-Angelakis. 1993. Differences in protein synthesis and peroxidase isoenzymes between recalcitrant and regenerating protoplasts. **Physiol. Plant.** 87: 263-270.
31. Kotzabasis, K., M.D. Christakis-Hampas, and K.A. Roubelakis-Angelakis 1993. A Narrow-Bore HPLC method for the identification and quantitation of free, conjugated and bound polyamines. **Anal. Biochem.** 214: 484-489.
32. Kotzabasis, K., C. Fotinou, K.A. Roubelakis-Angelakis, and D. Ghanotakis 1993. Polyamines in the photosynthetic apparatus of spinach. Photosystem II highly resolved subcomplexes contain only spermine. **Photosynth. Res.** 38: 83-88.
33. Benson, E.E. and K.A. Roubelakis-Angelakis. 1994. Oxidative stress in recalcitrant tissue cultures of grapevine. **Free Rad. Biol. Medic.** 16(3): 355-362.
34. Loulakakis, K.A., K.A. Roubelakis-Angelakis, and A.K. Kanellis. 1994. Regulation of glutamate dehydrogenase and glutamine synthetase in avocado fruit during development and ripening. **Plant Physiol.** 106: 217-222.
35. Siminis, C.I., A.K. Kanellis, and K.A. Roubelakis-Angelakis. 1994. Catalase is differentially expressed in dividing and nondividing protoplasts. **Plant Physiol.** 105: 1375-1383.
36. Harding, K. and K.A. Roubelakis-Angelakis. 1994. The isolation and purification of DNA from *Vitis vinifera* L. plants and *in vitro* plantlets. **Vitis** 33: 247-248.
37. Tsatsakis, A.M., K.N. Paritsis, M.I. Shtilman, I.B. Shashkova, and K.A. Roubelakis-Angelakis. 1995. 1-Naphthylacetic acid slow release formulations: auxin type effect in tobacco leaf segments is affected by structure and hydrolysis. **Plant Growth Regulation** 17: 2: 167-174.
38. Loulakakis, K.A. and K.A. Roubelakis-Angelakis. 1996. The seven NAD(H)-Glutamate dehydrogenase isoenzymes exhibit similar anabolic and catabolic activities. **Physiol. Plant.** 96: 29-35.
39. de Marco, A. and K.A. Roubelakis-Angelakis. 1996. The complexity of enzymic control of hydrogen peroxide concentration may affect the regeneration potential in plant protoplasts. **Plant Physiol.** 110: 137-145.
40. Syntichaki, K.M., K.A. Loulakakis, and K.A. Roubelakis-Angelakis. 1996. The amino acid sequence similarity of plant Glutamate dehydrogenase

- with the extremophilic archaeal enzyme conforms to its stress related function. **Gene** 168: 87-92.
41. Loulakakis, K.A., K.A. Roubelakis-Angelakis, and A.K. Kanellis. 1996. Isolation of functional RNA from grapevine tissues poor in nucleic acid content. **Amer. J. Enol. Vitic.** 47(2): 181-185.
 42. de Marco, A. and K.A. Roubelakis-Angelakis. 1996. Hydrogen peroxide plays a bivalent role in the regeneration of protoplasts. **Plant Physiol.** 149: 109-114.
 43. de Marco, A. and K.A. Roubelakis-Angelakis. 1996. Peroxidase contribution to protoplast regeneration. **Plant Peroxidase Newsletter** 8: 3-5.
 44. Harding, K., E.E. Benson, and K.A. Roubelakis-Angelakis. 1996. Methylated DNA changes associated with the initiation and maintenance of *Vitis vinifera* L. *in vitro* shoot and callus cultures: A possible mechanism for age related changes. **Vitis** 35(2): 79-85.
 45. Loulakakis K.A. and K.A. Roubelakis-Angelakis. 1996. Characterization of *Vitis vinifera* L glutamine synthetase and molecular cloning of cDNAs for the cytosolic enzyme. **Plant Mol. Biol.** 31: 983-992.
 46. Loulakakis, K.A. and K.A. Roubelakis-Angelakis. 1997. Molecular cloning and characterization of cDNAs coding for ferredoxin-dependent glutamate synthase from *Vitis vinifera* L. **Physiol. Plant.** 101: 220-228.
 47. de Marco, A. and K.A. Roubelakis-Angelakis. 1997. Laccase activity could contribute to cell-wall reconstitution in regenerating protoplasts. **Phytochemistry** 46: 421-426.
 48. Pedroso, C.M., N. Primikirios, K.A. Roubelakis-Angelakis, and M.S. Pais. 1997. Free and conjugated polyamines in embryogenic and non-embryogenic leaf regions of camellia leaves before and during direct somatic embryogenesis. **Physiol. Plant.** 101: 213-219.
 49. Primikirios, N.I. and K.A. Roubelakis-Angelakis. 1999. Cloning and expression of an arginine decarboxylase cDNA from *Vitis vinifera* L. cell-suspension cultures. **Planta** 208: 574-582.
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