

## ***Curriculum Vitae***

### **Personal information**

Full name: Nima Ahmadi  
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### **Education**

2004-2008 PhD. Student at Gottfried Wilhelm Leibniz Universität Hannover, Department of Horticulture  
1997-2000 MSc. in Horticulture, Tarbiat Modares University, Tehran, Iran  
1995-1997 BSc. in Agricultural Engineering, University of Tehran, Tehran, Iran  
1988-1990 Associate of Agricultural Science, University of Sistan & Balouchestan, Zabol, Iran  
1990 High School Diploma on Experimental Sciences, Shiraz, Iran

### **Membership**

International Society for Horticultural Science (ISHS)  
Iranian Society for Ornamental Plants (ISOP)

### **International journals with referee system:**

Rasouli, O., **Ahmadi, N.** and Rashidi Monfared, S. (2020) Molecular characterization and expression pattern of RhPAR, RhMYB1 and RhANS genes involving in scent and color production in *Rosa damascene*. *Scientia Horticulturae*, 272: 1-6

Nasiri, A., **Ahmadi, N.** and Movahed, G. 2020. Effects of 1MCP and ethylene on preservation of quality and vase life of *Alstroemeria* (cvs. Hercules and Mayfair) cut flowers. *Adv. Hort. Sci.*, 2020 34(1S): 8996

Bayanati, M., Tehranifar, A., Razavi, K., Neamati, S.H, Lohrasebi, T. and Ahmadi, N. 2019. Expression patterns analysis of SOD genes in responses to ethylene-induced oxidative stress in rose (*Rosa hybrida*) during flower development. *South African Journal of Botany* 127 (2019) 265-270

Bayanati, M., Razavi, K., Tehranifar, A., Lohrasebi, T., Neamati, S.H. and **Ahmadi, N.** 2019. Isolation and expression patterns of two novel senescence-associated genes RhAA and RhCG in rose (*Rosa hybrida*). *Postharvest Biology and Technology* 152: 60–64.

Ranjbar, A. and **Ahmadi, N.** 2019. Evaluation of the ethylene effect on display quality and expression of some senescence related enzymes in potted miniature rose. *Acta Hort.* 1232,105-110. DOI: 10.17660/ActaHortic.2019.1232.17

Ahmadian, M., **Ahmadi, N.**, Babaei, A., Naghavi, M.R. and Ayyari, M. 2018. Comparison of volatile compounds at various developmental stages of tuberose (*Polianthes tuberosa* L. cv. Mahallati) flower with deferent extraction methods. *JOURNAL OF ESSENTIAL OIL RESEARCH*, VOL. 30, NO. 3, 197–206.

Alirezalu, A., Salehi, P., **Ahmadi, N.**, Sonboli, A., Aceto, S., Hatami Maleki, M. and Ayyari, M. 2018. Flavonoids profile and antioxidant activity in flowers and leaves of hawthorn

- species (*Crataegus spp.*) from different regions of Iran. *International Journal of Food Properties*, VOL. 21, NO. 1, 452–470.
- Rasouli, O., **Ahmadi, N.**, Rashidi Monfared, S. and Sefidkon, F. 2018. Physiological phytochemicals and molecular analysis of color and scent of different landraces of *Rosa damascena* during flower development stages. *Scientia Horticulturae*, 231: 144-150
- Ahmadian, M., Babaei, A., **Ahmadi, N.** and Rasoli, O., 2017. Genome size diversity of some species of *Cephalanthera* from Iran. *Caryologia*, 70:3, 206-210
- Mirzaei, **Ahmadi, N.**, M., Sefidkon, F., Shojaeiyan, A. and Mazaheri, A. 2017. Evaluation of Some Postharvest Storage Approaches on Essential Oil Characteristics of Fresh Organic Damask Rose (*Rosa damascena* Mill.) Flowers. *Horticulturae*, 3 (16):1-5
- Khalaj, K., **Ahmadi, N.** and Souri. 2017. Improvement of Postharvest Quality of Asian Pear Fruits by Foliar Application of Boron and Calcium. *Horticulturae*, 3 (15):1-8
- Ahmadi, N.**, Mibus H. and Serek M. 2016. Response of F1 breeding lines of *Rosa hybrida* to exogenous ethylene treatment evaluated at physiological and molecular levels. *Acta Horticulturae*, 1131: 139-145.
- Ranjbar, A. and **Ahmadi, N.** 2015 Effects of External Ethylene on Laccase and Antioxidant Enzymes Activity and Physio-Biochemical Characteristics of Potted Miniature Rose cv. Sanaz-e-Zard. *Journal of Horticulture*, 2 (4): 1-6.
- Ebadi, M.T., Azizi, M., Sefidkon, F. and **Ahmadi, N.** 2016. Packaging methods and storage duration affect essential oil content and composition of lemon verbena (*Lippia citriodora* Kunth.). *Food Science Nutrition*, 1-8.
- Sadeghi, M., **Ahmadi, N.**, Safaei, N. and Rahmani, I. 2016. Enhancement of postharvest quality and antioxidant enzymes activity of gerbera cut flowers through methyl jasmonate fumigation. *Acta Horticulturae*, 1131:17-23
- Mirzaei, M., Sefidkon, F., **Ahmadi, N.**, Shojaeiyan, A., and Hosseini, H. 2016. Damask rose (*Rosa damascena* Mill.) essential oil is affected by short-and long-term handling. *Industrial crops and products*, 79: 219–224.
- Ranjbar, A. and **Ahmadi, N.** 2015. Effects of 1-MCP and Ethylene on Antioxidant Enzymes Activity and Postharvest Physio-Biochemical Characteristics of Cut Carnation Flower cv. ‘Fortune’. *Advances in Horticultural Science*, 29(4): 192-198.
- Ebadi, M.T., Azizi, M., Sefidkon, F. and **Ahmadi, N.** 2015. Influence of different drying methods on drying period, essential oil content and composition of *Lippia citriodora* Kunth. *Journal of Applied Research on Medicinal and Aromatic Plants*, 2(4): 182–187.
- Rahmani, I., **Ahmadi, N.**, Ghanati, F. and Sadeghi, 2015. M. Effects of Salicylic Acid Applied Pre- or Post-Transport on Postharvest Characteristics and Antioxidant Enzyme Activity of *Gladiolus* Cut Flower spikes. , *New Zealand Journal of Crop & Horticultural Science*, Vol. 43, No. 4, 294–305.
- Rasouli, O., **Ahmadi, N.**, Behmanesh, M. and Daneshi Nergi, M. (2015). Effects of BA and TDZ on postharvest quality and expression of laccase and aquaporin genes in cut rose ‘Sparkle’. *South African Journal of Botany*, 99: 75-79.
- Koohkan, F., **Ahmadi, N.** and Ahmadi, S.J. 2014. Improving vase life of carnation cut flowers by silver nano- particles acting as anti-ethylene agent. *Journal of applied horticulture*, 16 (3): 210-214
- Khalaj K, **Ahmadi N**, Souri M. 2015. Effect of Calcium and Boron Foliar Application on Fruit Quality in Asian Pear Cultivar ‘KS10’. **Journal of Crop production and processing**; 4 (14): 89-97 (Abstract in English)
- Hosseini, S.S, **Ahmadi, N.** and Yadollahi, A., 2014. Effect of storage temperature and putrescine concentrations on pollen germination and pollen tube growth of two genotypes

- of Iranian damask rose (*Rosa damascena* Mil). Journal of Crop Improvement, 16 (2): 321-337. (Abstract in English).
- Sadeghi, M., **Ahmadi, N.**, Safaei, N. and Rahmani, I. 2014. Effects of methyl jasmonate vapor treatment on display quality, anthocyanin content and membrane stability index of gerbera cut flowers cv. Pink Elegance. Journal of Middle East Applied Science and Technology: 13 (4): 430-435
- Wang S., Xue J., **Ahmadi, N.**, Holloway, P., Zhu, F., Ren, X. and Zhang, X. (2014). Molecular characterization and expression patterns of PsSVP genes reveal distinct roles in flower bud abortion and flowering in tree peony (*Paeonia suffruticosa*). Canadian Journal of Plant Science, 2014, 94(7): 1181-1193, 10.4141/cjps2013-360
- Daneshi Nergi, M.A., **Ahmadi, N.** (2014). Effect of 1-MCP and ethylene on postharvest quality and expression of senescence-associated genes in cut rose cv. Sparkle. Scientia Horticulturae, 166: 78-83.
- Hamed Chaman, S., Arab, M., **Ahmadi, N.** and Roozban, M.R (2013). Postharvest Longevity and Quality of Cut Carnations, 'Pax' and 'Tabor', as Affected by Silver Nanoparticles. Acta Hort. 1012, 527-532.
- Barzegar, K., Yadollahi, A., Imani, A., **Ahmadi, N.** (2012). Responses to drought stress of almond cultivars and genotypes grown under field conditions. International Journal of Agriculture: Research and Review. Vol., 2 (3), 205-210.
- Ahmadi, N.** (2012). Rooting and growth of cuttings from ethylene-low or ethylene-high sensitive miniature rose genotypes under mist condition. Acta Horticulture, 952: 893-898.
- Barzegar, K., Yadollahi, A., Imani, A., **Ahmadi, N.** (2012). Influences of severe water stress on photosynthesis, water use efficiency and proline content of almond cultivars. Journal of Applied Horticulture, 14(1)
- Ahmadi, N.**, Mibus H., Serek M. (2009). Identification of ethylene induced genes in abscission zone of *Rosa hybrida* L. by use of differential display. Acta Horticulture, 847: 81-86.
- Ahmadi, N.**, Mibus H., Serek M. (2009). Characterization of ethylene-induced organ abscission in F1 breeding lines of miniature roses (*Rosa hybrida* L.). Postharvest Biology and Technology 52:260-266
- Ahmadi, N.**, Mibus H., Serek M. (2008). Isolation of an ethylene induced putative nucleotide laccase in miniature roses (*Rosa hybrida* L.). J. Plant Growth Regul. 27:320–330.
- Ahmadi, N.**, Arzani, K., Moeini, A. (2001). Study of pollen storage, germination and pollen tube growth in some citrus cultivars. Seed and Plant Journal (SPII), Vol 17, No (1):216-229. (In Persian with English Abstract)

### **Papers presented in international scientific congresses**

- Rasouli, O., **Ahmadi, N.**, Rashidi Monfared, S. and Sefidkon, F. 2018. Essential oil characteristics and expression analysis of scent-related genes in four landraces of Damask rose. 2018. VIII International Scientific and Practical Conference -Biotechnology as an Instrument for Plant Biodiversity Conservation (physiological biochemical embryological genetic and legal aspects). October 1-5, 2018. Yalta, Russian Federation
- Ranjbar, A. and **Ahmadi, N.** 2017. Evaluation of the ethylene effect on display quality and expression of some senescence related enzymes in potted miniature rose. July 2, 2017, Angers, France.

- Ahmadi, N.**, Golestani, M. A. and Bayzidan, M. 2016. The current status of urban parks and green spaces in Tehran Iran. 6th International Conference on Landscape and Urban Horticulture. June 20-25, 2016, Athens, Greece
- Mirzaei, M., Sefidkon, F., **Ahmadi, N.**, Shojaeiyan, A., and Hosseini, H. 2016. Fragrance volatile variation of oil rose (*Rosa damascena* Mill.) during flower development. The first Iranian Congress of Essential Oil. 10-11 May 2016. Kashan, Iran
- Mirzaei, M., **Ahmadi, N.**, Sefidkon, F., Shojaeiyan, A., and Hosseini, H. 2015. Evaluation of Some Post-harvest Storage Approaches on Essential Oil Characteristics of Fresh Organic Damask Rose (*Rosa damascena* Mill.) Flowers. International Symposium on QUALITY MANAGEMENT OF ORGANIC HORTICULTURAL PRODUCE, 7-9 Dec 2015 Ubon Ratchathani, Thailand
- Khalaj K, **Ahmadi N**, Souri M. 2015. Improvement of Postharvest Quality of Asian pear Fruits by Foliar Application of Boron and calcium. International Symposium on QUALITY MANAGEMENT OF ORGANIC HORTICULTURAL PRODUCE, 7-9 Dec 2015 Ubon Ratchathani, Thailand
- Ahmadi, N.** 2015. Biotechnological approaches for improvement of postharvest display quality of ornamental plants (Keynote speech). The 3rd International Symposium on Quality Management in Supply Chains of Ornamentals (QMSCO2015), 1-4 May 2015, Kermanshah, Iran
- Daneshi Nergi, M. A., Ahmadi, N. and Rasouli, O. 2015. 1-Methylcyclopropene treatment affects expression of some ethylene- dependent genes and postharvest characteristics of cut rose 'Sparkle'. The 3rd International Symposium on Quality Management in Supply Chains of Ornamentals (QMSCO2015), 1-4 May 2015, Kermanshah, Iran
- Rasouli, O., Ahmadi, N., Behmanesh, M. and Daneshi Nergi, M. (2015). The role of TDZ and BA on postharvest characteristics of cut rose flower. The 3rd International Symposium on Quality Management in Supply Chains of Ornamentals (QMSCO2015), 1-4 May 2015, Kermanshah, Iran
- Hosseini, S.S., **Ahmadi, N.**, Yadollahi, A. and Rasouli, O. (2015). Response of Two Iranian Damask Rose genotypes to Exogenous Ethylene and Cloning of Expressed ACC Oxidase and Aquaporin Genes. The 3rd International Symposium on Quality Management in Supply Chains of Ornamentals (QMSCO2015), 1-4 May 2015, Kermanshah, Iran
- Sadeghi, M., **Ahmadi, N.**, Safaei, N., Rahmani, I. and Daneshi Nergi, M. A. Enhancement of postharvest quality and antioxidant enzymes activities of gerbera cut flowers through methyl jasmonate fumigation. The 3rd International Symposium on Quality Management in Supply Chains of Ornamentals (QMSCO2015), 1-4 May 2015, Kermanshah, Iran
- Ahmadi, N.**, Mibus H., Serek M. (2012). Physiological and Molecular Evaluation of Ethylene-Dependent Abscission of Leaf and Floral Bud in Miniature Roses, *Rosa* hybrid L. 24th International Eucarpia Symposium – Section Ornamentals, September 2-5, 2012. Warsaw, Poland
- Moradi, S., Arab, M., Ahmadi, N., Roozban, M.R. (2012). Effect of polyamines on postharvest longevity of cut carnations (*Dianthus caryophyllus* L.), 'Pax' and 'Tabor'. 7th International Postharvest Symposium, 25th to 29th June, 2012, Kuala Lumpur, Malaysia
- Hamed Chaman, S., Arab, M., Ahmadi, N., Roozban, M.R. (2012). Postharvest longevity and quality of cut carnations, 'Pax' and 'Tabor', as affected by silver nanoparticles. 7th International Postharvest Symposium, 25th to 29th June, 2012, Kuala Lumpur, Malaysia
- Ahmadi, N.** and Banakar, A. 2011. Greenhouse energy consumption and strategies for increasing energy efficiency. ETEC International Conference, Amirkabir University, 20th and 21st of November 2011.

- Ahmadi, N.** 2011. A REVIEW ON THE PRODUCTION OF CUT FLOWERS AND ORNAMENTAL PLANTS IN IRAN. 1st National Agriculture Congress and Exposition on behalf of Ali Numan Kiraç with International Participation, 27- 30 April 2011, p. 2589-2592. Eskişehir, Turkey.
- Ahmadi, N.** 2011. Rooting and growth of cuttings from ethylene-low or ethylene-high sensitive miniature rose genotypes. International Symposium on "Advanced technologies and management towards sustainable greenhouse ecosystems-GreenSys2011", 5- 10 June 2011, Halkidiki peninsula, Greece.
- Ahmadi, N.,** Mibus H., Serek M. 2008. Identification of ethylene induced genes in abscission zone of *Rosa hybrida* L. by use of differential display. In: Proc. IXth Int'l Symp. on Postharvest Quality of Ornamental Plants, Odense, Denmark, 11-14 Aug., 2008
- Ahmadi, N.,** Mibus H., Serek M. 2008. Evaluation of exogenous ethylene-induced organs abscission in miniature rose (*Rosa hybrid* L.). GPZ-AG 18 (Zierpflanzen) in Gartenbauzentrum der Landwirtschaftskammer, Hamburg, Germany, 02.-03.09.2008
- Ahmadi, N.,** Mibus H., Serek M. 2008. Isolation of ethylene induced genes in *Rosa hybrida* L. by use of differential display- PCR. *The First Biology Conference for Iranian Scholars*, Hamburg, Germany, December 6-7 2008

**Entries in GenBank (NCBI, [www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov)): The entries contain details of submitted DNA sequences. The entries below are listed in the format: authors, year of publication in GB, accession No, [sequence-length] Title in GB.**

- Rasouli,O., Ahmadi,N., Rashidi Monfared,S. and Ahmadian,M. KX661005 [1095 bp] *Rosa x damascena* geranylgeranyl pyrophosphate mRNA, complete cds
- Mirzaei, M., Ahmadi, N., Sefidkon, F., Shojaeiyan, A. 2015. KP238661 [200 bp] *Rosa x damascena* ubiquitin-conjugating enzyme-like mRNA, partial sequence.
- Rasouli, O., M.A. Daneshi Nergi, N. Ahmadi, 2014. KF985188 [432 bp] *Rosa* hybrid cultivar tonoplatic intrinsic protein (TIP) mRNA, partial cds
- Rasouli, O., M.A. Daneshi Nergi, N. Ahmadi, 2014. KF985187 [441 bp] *Rosa* hybrid cultivar actin mRNA, partial cds
- Ahmadi N., H. Mibus, M. Serek, 2008. EU599189 [629 bp] *Rosa* hybrid cultivar putative kelch repeat-containing F-box family protein mRNA, partial cds
- Ahmadi N., H. Mibus, M. Serek, 2008. EU603405 [437 bp] *Rosa* hybrid cultivar putative homeobox transcription factor mRNA, partial cds
- Ahmadi N., H. Mibus, M. Serek, 2008. EU603403 [2005 bp] *Rosa* hybrid cultivar putative laccase mRNA, complete cds
- Ahmadi N., H. Mibus, M. Serek, 2008. EU938134 [707 bp] *Rosa* hybrid cultivar Lavender UDP-galactose/glucose pyrophosphorylase mRNA, partial cds
- Ahmadi N., H. Mibus, M. Serek, 2008. EU603406 [1063 bp] *Rosa* hybrid cultivar trehalose-6-phosphate synthase/phosphatase-like mRNA, partial sequence