

Portfolio/ Summary Biography of Dr. Esmaeil “Essie” Fallahi

Name: *Dr. Esmaeil Fallahi*

January 3, 2012

Title: Vice-President of the American Society for Horticultural Science, 2011-2014

Professor of Pomology and Director of Pomology Program

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1) Biography Summary

Esmaeil Fallahi “Essie” was born in Taleghan, Iran in 1951 in a farming family, growing fruits for many generations. He received his BS degree in Horticulture from Joundishapour University, Iran, holding first rank among all graduates. He received his MS degree in pomology from Washington State University, USA in 1976 and Ph.D. and post doctoral fellowship in Pomology from Oregon State University, USA in 1982. After working for 2 years as a member of pomology faculty at OSU, Essie joined the University of Arizona, USA as an assistant professor and research leader of pomology, where he conducted and published several research projects on citrus rootstocks, quality, mineral nutrition, and photosynthesis. He was pioneer in introducing low chill peaches to the desert climate of Arizona. In late 1989, Dr. Fallahi joined the University of Idaho as an Assistant Professor and Director of Pomology, and was tenured and promoted to Associate Professor of Pomology in 1993. In 1998, Dr. Fallahi was the only member in his department in 26 years who was nominated and received early promotion to Full Professor and Director of Pomology Program. In the last 30 years, Professor Fallahi has been a member and one of the American Society for Horticultural Science (ASHS) and ISHS leaders by serving on numerous committees, organizing symposia and workshops, and serving as an Associate Editor of ASHS for 6 years. Professor Fallahi is currently Vice-President of the American Society for Horticultural Science. Dr. Fallahi was elected President of the American Pomological Society in 2003 and 2004. He has also been on the editorial and advisory boards of several other national and international professional journals. Professor Fallahi has published over 260 articles, over 110 of them as refereed Journal articles and book chapters and over 150 proceedings, abstracts, and pamphlets. As an invited speaker, he has presented numerous lectures nationally (in the USA) and internationally. He has been invited for lecture and workshops and has traveled to many different regions of

the world, including England, Germany, Italy, France, China, Chile, Brazil, Argentina, Iran, Armenia, Finland, Belgium, Switzerland, South Korea, Thailand, Spain, Holland, Portugal, and many other countries. Professor Fallahi has advised numerous students toward MS and Ph.D. Dr. Fallahi has made numerous contributions to the fields of fruit nutrition and nutrition and fertilizer-related disorders, rootstock physiology, bio-regulators, and blossom thinners. Use of pre-harvest minerals to predict fruit quality, and hydrogen cyanamide, Tergitol, Thinex, ATS, and lime sulfur for blossom thing are among his research contributions. He was among the pioneers who researched the “retaining” effects of AVG, particle films, and Apogee in apples. Professor Fallahi is the founder of Pomology and Viticulture Program in Idaho where he evaluated several cultivars of apples, wine and table grapes, peaches and nectarines, pluots, and alternative fruits. Among them, many are being planted at commercial scale. Thanks to Dr. Fallahi’s research, the Idaho table grape is becoming one of the fastest growing agricultural industries in Idaho and the Pacific Northwest USA.

Professor Fallahi was elected “Fellow” of the American Society for Horticultural Sciences. He is the only Iranian-American and the only Scientist from the continent of Asia to receive this most prestigious award. Also His Birthday is name as “Dr Esmaeil Fallahi’s Day” in the history of State of Idaho by the Governor of this State.

2) Specific Achievements: High lights of Professor Fallahi’s Research

Introduction: Dr. Fallahi has contributed to the horticultural sciences, in particular, fruit industry, tremendously. Dr. Fallahi’s contribution to the Idaho agriculture through his educational program that initiates both from his teaching and from his research discoveries in various areas of fruit crop science is unmatched. He is an invaluable resource of education for all fruit growers, Master Gardeners, students, and other members of the public in Idaho, PNW, and the nation.

During his 23 years of tireless work, dedication, and research discoveries, Idaho’s name is on the top of all horticultural scientific communities in the nation and worldwide. Ground breaking and pioneering in introduction of several new Fuji and Gala apple cultivars and over 65 new peach and nectarine cultivars, establishment of the fast-growing and brand new table grape industry, introduction of numerous alternative fruits, introduction and evaluation of numerous wine grape cultivars to the state of Idaho for the first time, and numerous discoveries in the areas of fruit nutrition, rootstock introduction, growth bio-regulators, are among the high lights of Professor Fallahi’s achievements and unmatched contributions:

A) Research, Discoveries on Alternative Fruits, Table and Wine Grapes, and Establishment of the New Table Grape Industry in Idaho and the Pacific Northwest:

Dr. Fallahi founded the Viticulture Research in Idaho, USA in 1990. He has been evaluating adaptability and quality performance of several table and wine grapes in Idaho. As a result of his life-time dedication, the new table grape industry in Idaho is a fast-growing agribusiness. Also, thanks to Dr. Fallahi's research, several new cultivar clones of wine grapes such as 'Viognier', 'Valdapenase', 'Chardonnay 29' and 'Chardonnay 49' have become the most popular wine grape cultivars grown in Idaho and the Pacific Northwest.

Several alternative fruits have been evaluated and introduced to the State of Idaho by Dr. Fallahi for the first time, and some are becoming commercially planted.

Dr. Fallahi established the first experimental Fuji orchard in Idaho. Before that, it was generally believed that Idaho is too cold to produce 'Fuji' apples. Thanks to Dr. Fallahi's long-term research discoveries and recommendations during the last 16 years, new 'Fuji and Gala apple cultivars are becoming the most profitable apples for the State of Idaho. These discoveries were timely and economically critical for Idaho growers. Because, Red Delicious apple market was forced to slow down and go bankrupt in many cases due to China's huge production. Now, Fuji and Gala apples that Dr. Fallahi has recommended are grown in thousands of acres in Idaho and the industry is thriving.

Dr. Fallahi spent a long time on introducing over 65 cultivars of peaches, nectarines, and pluot to Idaho. These cultivars allow Idaho growers to have early, mid-season, or late-season stone fruit and take advantage of all maturity dates and windows of opportunities in the market for maximum profit. Introduction of several white flesh peaches and nectarines, including "flat" peaches, Snow Giant peach and 'Arctic Jay' nectarines are only a few examples of Dr. Fallahi's introduction.

Together with several other colleagues from other institutions, Dr. Fallahi helped in discovery of AVG (Retain), and many growth bio-regulators and blossom thinners during the past 27 years. Thanks to these discoveries, the cost of hand-thinning for Idaho fruit growers can be reduced by over 80%. Now, numerous universities and other institutions in the USA are following Dr. Fallahi's discoveries and applying these chemicals in their regions.

Dr. Fallahi also has conducted long-time research and has found the minimum levels of irrigation that can produce outstanding quality fruits, particularly apples under Idaho climatic conditions. This discover has been saving Idaho fruit growers as much as 60% cost of irrigation as compared to the traditional methods, while producing superior quality fruit for export market.

Professor Fallahi is not only the most dedicated horticultural scientist in Idaho, but also he is one of the top few leaders in PNW, the nation and in the world. His days starts very early and ends late; usually 12-15 hours a day. His tours are extremely educational and attracts over 800 people from Idaho and other states for each event.

Dr. Fallahi teaches a fruit production class (lecture and practical demonstration of pruning, planting, thinning, etc) during February and March out of his personal time. These classes are extremely popular and number of students increases every year. Participants are from all age group who have interest in horticulture.

B) Research on Mineral Nutritional Physiology and Fruit Quality Predictions:

Dr. Fallahi has been conducting research in the area of fruit nutrition for over 30 years. Dr. Fallahi and his team have published several models to predict fruit quality, using preharvest mineral concentrations of different tissues. Use of preharvest minerals for prediction of postharvest fruit quality now has a major application among fruit packinghouses, mineral nutrition laboratories, and researchers. Among the models that Dr. Fallahi and his team published, the "Ranking Minerals to Predict Quality" and "DRIS" are well-known models worldwide. With Ranking Model, one can predict quality of apples using preharvest mineral status of leaves and fruits regardless of annual variations. Also, after conducting experiments over several years, Dr. Fallahi and his team have recently developed thresholds for leaf and fruit nitrogen to obtain highest quality fruit in 'Fuji' apple. The thresholds are developed based on both ground application and fertigation of nitrogen through a micro-jet sprinkler system. He also discovered that nitrogen increases evolved ethylene and respiration, while reduces fruit red color in apple fruits. This finding has a major impact on growers and assists them with their decision making in their harvest and storage strategies. Because fruit growers often associate green color with immaturity and leave the fruit on the tree longer to develop better color. Therefore, if the green color is due to excess nitrogen application, internal maturity (ethylene and respiration) will increase and will lead to higher internal break down.

C) Research and Discoveries on the Influence of Deciduous Fruit Rootstocks on Fruit Quality:

Dr. Fallahi and his team have conducted numerous research projects on rootstock physiology of pome fruits in the last 30 years. Their earlier work revealed that pears on *Pyrus betulifolia* are more susceptible to corkspot than on other pear rootstocks. He also studied various nutritional, postharvest and tree growth characteristics of 'Starkspur Golden Delicious' on OAR-1 rootstock for the first time and found that the scion fruits on this rootstock have better color with lower ethylene production. Dr. Fallahi and his team have also studied precocity, fruit quality, and leaf and fruit nutrition of 'Fuji' and 'Delicious' apples on various rootstocks. In their recent work, Dr. Fallahi and his team found that 'Fuji' apple

trees on Ottwa-3 showed higher leaf photosynthesis than those on other rootstocks, while trees on Bud 9 had the least level of photosynthesis.

D) Research and Discoveries on Bio-Regulators and Blossom Thinners:

Dr. Fallahi has been a leader in tree fruit bio-regulators and blossom thinning research. He also used hydrogen cyanamide to reduce dormancy of peaches and found that application of this chemical in November would result in earlier bloom in 'Florda Prince', and fruits could be harvested much earlier than fruits from non-sprayed trees.

Dr. Fallahi and his team have also discovered that hydrogen cyanamide can be an excellent blossom thinner for peaches. Dr. Fallahi extensively tested the blossom thinning effects of hydrogen cyanamide on plums, peaches, apricot, and different cultivars of apples in the Pacific Northwest, and found that this chemical was superior to several other blossom thinners. Dr. Fallahi and his team have also discovered or assisted in discovering the blossom thinning effects of several other blossom thinners such as pelargonic acid (Thinnex), endothalic acid (endothal), sulfcarbamide (Wilthin), and other chemicals for both pome and stone fruit and published several refereed papers. Dr. Fallahi and his team have found that lime sulfur and Natural Cal are excellent organic blossom thinners for stone and pome fruits. Recently, Dr. Fallahi has found that Tergitol TMN-6 is an excellent blossom thinner for peaches, plums, and 'Rome Beauty' apple, and can reduce the cost of hand thinning by 80%. Dr. Fallahi's new discovery in blossom thinning is opening a new horizon and hope for all stone fruit grower who are paying \$800-\$1200 for the cost of hand thinning.

Dr. Fallahi has been conducting research on fruit growth bioregulators for the last 20 years. Following his extensive research work and effort of colleagues from other universities, Aminoethoxyvinylglycine (AVG) with trade name of "Retain" received registration for use on apples in 1997. This chemical retains fruit on the tree longer and prolongs storage life of apples. Dr. Fallahi was among the team of scientists who studied physiological effects of Apogee, a GA inhibiting compounds, and particle film Surround on apples, and these compounds are now registered. Dr. Fallahi and his team have also worked and published extensively on timing and concentrations of GA in combination with other bioregulators on table grape production and quality. He recently found that CPPU (a cytokinin type compound) increases fruit-stem removal force is in 'Bing' cherry and provides a longer shipping ability.

E) Research and Discoveries on Citrus Rootstock and Fruit Quality:

Dr. Fallahi and his team found that the use of sour orange rootstock would improve, while rough lemon reduces soluble solids of the scion cultivars. They also found that Macrophylla rootstock, although resulted in smaller tree canopy, it is susceptible to sieve tube necrosis in lemons. Dr. Fallahi and his team also extensively studied effects of various citrus rootstocks on photosynthesis, fruit quality, mineral nutrition, and yield of grape fruit, lemon, tangerines, and oranges, and results are published in several papers in the J. Amer Soc. Hort. Sci.

F) Graduate Student, Teaching, and Public Services:

Dr. Fallahi has advised several Ph.D. and MS students who are now leaders of horticulture in different parts of the world. Although Dr. Fallahi has always been a full time researcher, he has given numerous lectures, field days to fruit growers and shown them results of his experiments. Dr. Fallahi voluntarily teaches fruit production, pruning, and grafting to fruit growers in the Pacific Northwest and over 200 Master Gardeners every winter. Annual Pomology Field Day that Dr. Fallahi sponsors every September attracts at least 500 people from the Northwest and California, USA every year and is an extremely popular event.

Noteworthy Contributions to the International Society for Horticultural Sciences (ISHS)

Professor Fallahi has served ISHS in numerous ways. His service to the ISHS includes, but not limited to: Commission of ISHS Irrigation, Nutrition, Photosynthesis, Postharvest physiology, Organizing Committee of 3rd ISHS International Fruit Symposium in Canada, Scientific and Editorial Committees of 4th ISHS International Fruit Symposium in Canada, Editor and Scientific Committees of 4th International Fruit Nutrition Symposium in Chile, Chair of one fruit Session of the ISHS Horticultural Horticulture Congress in Toronto, Canada, Judge of the ISHS posters at Horticultural Congress in Canada. Dr. Fallahi is being invited as keynote speaker to several countries every year.

Dr. Fallahi has served as a “distance graduate advisor” and/external reviewer to several MS and Ph.D. graduate students in Australia, South Africa, Finland, Iran, and Morocco. He has conducted numerous joint projects with scientists at different countries, including Finland, Iran, Chile, and Canada.

Noteworthy Contributions to the American Society for Horticultural Sciences (ASHS)

Vice-President the American Society for Horticultural Science, 2011-2014

Elected Fellow of the American Society for Horticultural Sciences. This is the highest and most prestigious award presented to a very limited number of Horticultural Scientists worldwide.

President of the American Pomological Society, 2003 and 2004. This is the oldest scientific pomology society (162 years old).

Associate Editor of the American Society for Horticultural Sciences HortTechnology, Tree Fruits. Elected in 1996 and again in 2000 for total of 6 years for both deciduous and tropical fruits.

Chairman of the American Pomological Society U.P.Hedrick Award Committee, 2002-present.

Outstanding Extension Award Committee, American Society for Horticultural Science, 2004-2007.

Chair, Nomination Committee, American Pomological Society, 2004-present.

Chairman of the American Society for Horticultural Science Graduate Student Activities Committee, 2003-2006.

American Society for Horticultural Science Technical Committee. 1999-2003.

Chairman of over 25 different oral fruit sessions during the ASHS annual conferences between 1985 and 2006.

American Pomological Society Wilder's Award Committee.

American Society for Horticultural Science Fruit Publication Award Committee. 2000-2001.

American Pomological Society Membership Committee, 2000-Present.

American Pomological Society Sheppard Awards Committee, 2000-Present.

Editorial Board of Jordan Journal of Agricultural Sciences, 2005-present.

Vice President of the American Pomological Society, 2001-2003.

Member at Large on the Executive Board of American Pomological Society, 1998-2002.

American Pomological Society Advisory Board, 1997-1999.

Chairman, American Society for Horticultural Science Growth Regulator Working Group, 1996-1997; Co-chair in 1995.

Chairman, American Society for Horticultural Science Pomology Working Group, in 1997-1998; Co-chair in 1996.

Chairman, American Society for Horticultural Sciences Nutrition Working Group, 1994, Co-chair in 1993.

American Society for Horticultural Sciences Cross-Commodity Publication Awards Committee Member, 1994.

Committee Member of the Topic and Speaker Selection for the 90th annual meetings of the American Society for Horticultural Sciences Nutrition Group in Tennessee, 1995.

Recruiting members for the ASHS from many countries of the world during his invited presentations.

Active Member of the American society for horticultural science in the following working groups

Pomology Working Group

Nutrition Working Group

Growth Regulators in Fruit and Nut Production Working Group

Postharvest Physiology Working Group

Rootstock and Genetic Working Group

Small Fruit Working Group

Noteworthy Contributions at the University of Idaho and Regional Professional Societies:

Election Committee member of Payette County Extension Agent. 2001.

Committee member of the Foreign Student Recruitment, 2000 to present.

Liaison of the College of Agriculture to the Idaho Apple Commission and the Idaho Cherry Commission, 1990-Present

Chairman/Coordinator of Parma R&E Center Motor Pool Committee, No safety-related accident happened during this period (1990-1999).

Selection Committee member of Payette County Educator/Director, 1999.

Committee member of Farm Worker Selection Committee at Parma R&E Center, 1998.

Member of the Water Quality Advisory Committee for the Snake - Payette Rivers Hydrologic Units, 1993-1995.

Representative of Department of PSES, Plant Science Division in the University of Idaho College of Agriculture Committee for Tenure and Promotion, 1991-1994.

Member of the Parma R/E Center Farm Operations Manager Selection Committee, 1992

Chairman, Department of PSES Seminar Committee, 1998-Present.

Chairman, Promotion Committee (to Professor) of Dr. Shree Singh, 2000.

Committee member of Potato/Onion Scientific Aide position, 2000.

Department of PSES Internal Advisory Committee, 1998-present.

Department of PSES Promotion and Tenure Ad-Hoc Committee, 1999.

Member of PSES Graduate Student Recruiting Committee, 1999-Present.

Committee member of Graduate Student Progress Review, Department of Plant, Soil, and Entomological Sciences, 1993-Present.

Chair, Research Support Scientist Position for Pomology, 1995, 1997, & 1999.

Committee member of the Weed Science Scientific Aide Position, 1995.

Mentor and Reviewer of packages of several candidates for promotion and tenure.

Member of University of Idaho Plant Science Internal Advisory Committee

Department of PSES Promotion and Tenure Ad-Hoc Committee, 1999.

Committee member of U of I Graduate Student Progress Review, Department of Plant, Soil, and Entomological Sciences, 1993-2000

Chairman of Horticulture Group for CSREES Review Team of the PSES Department, 2003

Membership and Participation (in other Professional Societies):

Convener (Chairman) for all Fruit Sessions at the International Society for Upcoming Horticultural Congress in South Korea

Member of International Society for Horticultural Science (ISHS)

International Dwarf Tree Fruit Association

Member of the Iranian Society for Horticultural Science

Honorary member of Iranian Horticultural Society

Editorial Board of the 5th International Fruit Nutrition Conference; Chile, 2004-2005

Board of Editors of the Journal of Small Fruit, 1997-Present

Board of Editors, Journal of Fruits, published in France, 1999-present

Board of Editors, Journal of Agricultural Science, Published in Oman, Jordon, 2005- present

Board of Editors, Journal of Plant Nutrition, 1997-Present

Chairman of the Northwest Center for Small Fruit Research Physiology and Production Working Group, 2000-2002; Co-chair 1999

Chairman of the Idaho State Horticulture Society Program Committee

Editorial Board of Journal of Agricultural Technology, Published in Iran.

Editorial and Advisory Board of 1st International Foliar Nutrition Tree Fruit and Perennial Fruit Plants held in Bolzano, Italy. Reviewed all submitted papers 2001-2003.

Scientific and Editorial Committee for the Fifth International Symposium on Tree Fruit and Grape Nutrition, 2004-2005 in Chile

Chairman of "International Symposium on the World's Fruit Nutrition Problems", B.C., Canada, 2000.

Co-chairman and Organizing Committee member of the "Fourth International Symposium of Mineral Nutrition of Deciduous Fruit and Grapes" held in British Columbia, Canada, 2000.

Editor of the Proceeding of the Fourth International Symposium on Mineral Nutrition of Deciduous Fruit and Grapes. 2000

Editor for “International Symposium on the World’s Fruit Nutrition Problems” papers, 2000-2003.

Co-Editor of the First National Symposium on Organic Tree Fruits. 2001-Present.

Idaho State Horticultural Society member

Washington State Horticultural Society member

Oregon State Horticultural Society member

Utah State Horticultural Society member

Sigma Xi, the Scientific Research Society

Pacific Northwest Fruit Tester’s Association

Research Funding:

Dr. Fallahi has secured over \$5 million in grants and materials for his research projects in the last 10 years..

Awards in Horticulture

Dr. Fallahi has made great contributions to the science of horticulture and fruit growers of Idaho, the nation and rest of the world through his discoveries in fruit nutrition, bio-regulators, rootstock physiology in deciduous fruits, blossom thinning and fruit bioregulators, and irrigation, and research on wine and table grapes during the last 30 years. Among his many noteworthy services are his volunteer teaching to fruit growers, horticulturists, and Master Gardeners. Also, establishing a new table grape industry and new peaches, alternative fruits, and new cultivars of apples in Idaho is a direct result of Dr. Fallahi’s life-time research. The following are a partial list of awards that Dr. Fallahi has received for his outstanding services to horticulture:

Recipient of Governor’s Award of Excellence in Discovery by Governor Otter of Idaho in 2008. This is the most prestigious award of the State of Idaho.

Declaration of September 13 as “Dr. Esmail Fallahi’s Day” in Idaho by the Governor of Idaho to appreciate Dr. Fallahi’s contributions in research and discoveries. Sept 13 is Dr. Fallahi’s birthday.

“Fellow” of the American Society for Horticultural Sciences. 2006.

Award of Outstanding Apple Researcher from the Latin American Fruit Growers association in Mexico, 2006

Recipient of a Citation of Appreciation award for serving as Outstanding President from the American Pomological Society, July 2004.

Recipient of the Outstanding Service as Vice-President, American Pomological Society, August 2002.

Recipient of the American Society for Horticultural Science Distinguished Associate Editor Award for Rendering Outstanding Service to the Society between 1999 through 2001.

Recipient of the "Paul How Shepard Award" for the best scientific paper published in the Journal of the American Pomological Science. This award was presented by the President of the Society at the 150th year celebration and Annual Meeting of American Pomological Society in July 1999.

Recipient of the American Pomological Society Ulysses P. Hedrick Award for the 2nd Best fruit in the Journal of American Pomological Society, October 2003.

Recipient of Group Honor Award for Excellence from the United States Department of Agriculture for Cooperative State Research, Education, and Extension Service Multi-State Research Project Northeast 183.

Recipient of the Outstanding Researcher and Service Award from the Idaho Table Grape Association, September 2004.

Recipient of Cooperative State Research, Education, and Extension Service Certificate of Appreciation for Multi-State Research Project Northeast 183.

Recipient of the Outstanding Researcher and Service Award from the Idaho Grape Grower and Wine Producer Commission in August of 2001.

Recipient of the Outstanding Pomology Scientist Award from Gorgan University of Agricultural Sciences and Natural Sciences, September 2001.

Recipient of Distinguished Award for Outstanding Associate Editor of the American Society for Horticultural Science for 1996-1998.

Recipient of the "Highest Scientific Award" from Manufia University, Egypt. This award was presented by the Dean of School of Agriculture and a group of horticulture professors and dignitaries from Manufia University in May 1995.

National recipient of Dr. Curtis Dearborn Memorial Horticultural Scholarship for Outstanding Graduate Student in Pomology, 1982.

Graduated with honors and achieved the highest (first) rank among all students from School of Agriculture, Department of Horticulture, Joundishapour University. 1974.

PARTIAL LIST OF PUBLICATIONS

Thesis and Dissertation:

Rootstock Influence on 'Bartlett' and 'd Anjou' Leaf and Fruit Nutrient Content and Fruit Ripening and Storage. M.S. Thesis. Graduate Advisor: Dr. Fenton E. Larsen.

Rootstock, K, and N Fertilizer Effects in a High Density Orchard on Seasonal Mineral Elements, Endogenous Ethylene, Maturation and Storage Quality of 'Starkspur Golden Delicious' Apples. Ph.D. Dissertation. Graduate Advisor: Dr. Melvin N. Westwood.

Books/Proceedings:

Fallahi, E., T. Elias, J. Stark, B. Fallahi, and R. M. Mann. 2008. Table Grape Production under High Desert Conditions of Southwest Idaho and the Pacific Northwest. Being completed (approximately 110 pages).

Nabavi, A. and E. Fallahi. (book being translated from English into Farsi): Premium Cherry Production, published in 2005. Will be completed in 2007. Good Fruit Grower Publications, Yakima, WA.

Neilsen, D., E. Fallahi, G.. Neilsen, and F. Peryea (Editors). 2002. 4Th International Symposium on Fruit Crop Nutrition. Acta Horticulturae, International Society for Horticultural Science. Number 564.

Fallahi, E., G. Neilson, D. Neilsen, and F. Peryea. 2000. Co-Editors of a book entitled " Nutrition Management to Optimize Fruit Quality", Published by Acta Horticulturae; International Society for Horticultural Science Publication, Brussels, Belgium in March 2000.

Assistant Editor and Editorial Advisory Board for the Proceeding of the International Symposium on Foliar Nutrition of Perennial Fruit Plants. 2002. Acta Horticulturae 594. pp 695.

Fallahi, E. 1976. Investigations and Reports on Apple and Pear Production in Iran. These books are prepared in two volumes. University of Joundishpour Publications, Ahvaz, Iran.

Volume 1: Climate and Soil Condition in Fruit Producing Regions in Iran. 200 pp.

Volume 2: Identification of Native and Imported Varieties of Apples and Pears in Iran. 500 pp.

These books were completed in four years and were financially supported by the University of Jondishapour, Research Division, Ahvaz, Iran.

Book Chapters:

E. Fallahi, B. Fallahi, M. Sharifani, and A. Ebrahimi. 2005. Basics in Physiology of Water and Mineral Uptake in Fruit Trees. Modern Cherry Production. Pp. 73-80. Good Fruit Grower Publications. Yakima, Washington.

Fallahi, E, G. A. Lee, and J. K. Fellman. 1997. "How Pre-harvest Factors Present Postharvest Problems." pp. 39-46. In "Postharvest Conference". Good Fruit Grower, Yakima, Washington.

Fallahi, E. 1997. "Pre-harvest Nitrogen Optimization for Maximizing Yield and Postharvest Fruit Quality of Apples." pp. 11-15, Vol. 448. In: Mineral Nutrition and Fertilizer Use for Deciduous Fruit Crop. Acta Horticulturae , International Society for Horticultural Sciences Publication, The Netherlands.

Fallahi, E. 1994. "Fruit Tree Root Physiology, Development and Mineral Nutrient Uptake". pp. 19-30. In: Management of Tree Fruit Nutrition. A. B. Peterson and B. Stevens (eds.). Good Fruit Grower, Yakima, Washington.

Editor for "International Symposium on Fruit Nutrition Problems" Symposium Papers, 2001 (10 symposium papers, to be published in the ASHS HortTechnology).

Partial List of Refereed Journal Articles:

Fallahi, E., B. Fallahi, M. Amiri, B. Shafii. 2012. Long-Term Fruit Yield and Quality of Various Gala Apple Strain-Rootstock Combinations under an Evapotranspiration-Based Drip Irrigation System. Journal of Fruit, Vegetable and Cereal Science and Biotechnology. Accepted in 2011. In Press.

Fallahi, E., B. Fallahi, B. Shafii, D. Neilsen, G. Neilsen. 2011 The Impact of Long-Term Evapotranspiration-Based Water Scheduling in Various Irrigation Regimes on Tree Growth, Yield, and Fruit Quality at Harvest in 'Fuji' Apple. Journal of the American Pomological Society. 65 (1): 42-53.

Fallahi, Esmail. 2011. Systematic Evaluation of Table Grapes in Search of Suitable Cultivars for High Deserts in the United States. Journal of Applied Horticulture. In Press.

Fallahi, E., B. Fallahi, B. Shafii, and T.J. McFerson. 2011. The Impact of Rootstock and Irrigation on Water Use, Tree Growth, Nutrition, Yield, and Fruit Quality of 'Pacific Gala' Apple. Acta Horticulturae. Number 903: 915-921.

Khorshidi, S. Davarynejad, G.H., Tehranifar, A. and E. Fallahi, 2011, Effect of Modified Atmosphere Packaging on Chemical Composition, Antioxidant Activity, Anthocyanin, and Total Phenolic Content of Cherry Fruits. Journal of Horticulture, Environment, and Biotechnology, 52(5): 471-481.

Khorshidi, S.; Davarynejad, G.; Fallahi, E. 2011. Effect of Preharvest Ethylene Spray on Fruit Quality and Chemical Attributes of Sour Cherry. Acta Horticulturae, Leuven 1, Belgium In Press.

Khorshidi, S., G.H. Davarynejad, A. Tehranifar, and E. Fallahi. 2011. Effect of Modified Atmosphere Packaging on Chemical Composition, Antioxidant

- Activity, Anthocyanin and Total Phenolic Content of Sweet and Sour Cherry Fruits. *Acta Horticulturae*, Leuven 1, Belgium In Press.
- Kargar, M., A.A. Ramin, E. Fallahi, and M. Pyrmoradian. 2011. Effects of Rootstocks on Fruit Yield and Quality of Apple cv. 'Golab Kohanz. *Acta Horticulturae*, Leuven 1, Belgium In Press.
- Kargar, M., A.A. Ramin, E. Fallahi, and M. Pyrmoradian. 2011. Effect of Six Apple Rootstocks on Storage Span of Apple cv. Golab Kohanz. *Acta Horticulturae*, Leuven 1, Belgium In Press.
- Amiri, M.E., E. Fallahi, V. Rebiaie. 2011. Influence of Ethephon on Maturation and Quality of *Vitis vinifera* 'Beidaneh Ghermez' Grape. *Acta Horticulturae*, Leuven 1, Belgium In Press.
- Amiri, M. E., E. Fallahi. 2011. Application of CaCl Sprays on Fruit Quality of Grape cv. Asgari. *Acta Horticulturae*, Leuven 1, Belgium In Press.
- Amiri, M. E., E. Fallahi. 2011. Influence of Rootstocks on Scion Growth and Leaves Minerals Contents of Apple (*Malus domestica* cvs. Golden Delicious and Galla) Trees. *Acta Horticulturae*, Leuven 1, Belgium In Press.
- Fallahi, E., B. Falahi, G.H. Neilsen , D. Neilsen, and F.J. Peryea. 2010. Effects of Mineral Nutrition on Fruit Quality and Nutritional Disorders in Apples. *Acta Horticulturae* 868: 49-60.
- Neilsen, G.H., D. Neilsen, F. Peryea, and E. Fallahi. 2010. Tomorrow's Challenges in Fruit Nutrition Research: Quo Vadis? *Acta Horticulturae* No. 868: 27-40.
- Fallahi, E. and D.W. Greene. 2010. The Impact of Blossom and Postbloom Thinners on Fruit Set and Fruit Quality in Apples and Stone Fruits. *Acta Horticulturae*. Number 884: 179-187.
- Amiri, M.E., E. Fallahi, and S.H. Parseh. 2010. Application of Ethephone and ABA at 40% Veration Advanced Maturity and Quality of 'Beidaneh Ghermez' Table Grape. *Acta Horticulturae*. Number 884: 371-378.
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