

CURRICULUM VITAE

Last 5 years

Name: Eliezer S. Louzada
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EDUCATION:

Ph.D. - Genetics	1993	Federal University of Rio de Janeiro/University of Florida.
M.S. - Soil Science	1978	Federal Rural University of Rio de Janeiro, Brazil.
B.S. - Agronomy	1975	Federal Rural University of Rio de Janeiro, Brazil.

EMPLOYMENT HISTORY (last 10 years)

Texas A&M University-Kingsville	Professor	September 1997-Present
University of Florida	Research Associate	August 1996- September 1997
Ceres 2000, Inc	Senior Scientist	December 1994- August 1996
University of Florida	Research Associate	July 1993- December 1994
University of Florida	Visiting Scientist	July 1990-July 1993 *

TEACHING EXPERIENCE

Advances in Cell Biology: Graduate courses level 6000
Introduction to Plant Biotechnology: level 6000
Advances in Plant Breeding: Levels 5000 and 6000
Practical Application of Biotechnology- level 6000

GRADUATE STUDENTS ADVISEMENT

1. Current Graduate Students

- Franco Guerra
- Olivia Segura

2. Students Graduated

- Victoria de Leon 2020
- Estephanie Bernal 2019

- Venkata Boyapati 2019
- Naga Rajitha Kavuri 2019
- Pallavi M.V. 2016
- Omar Vazquez 2015

2- YEAR COLLEGE STUDENTS RESEARCH INTERNSHIP AND RECRUITMENT

We started in 2018 a program to provide research experience for students from the Texas State Technical College (TSTC), Harlingen with the objective to recruit them to TAMUK. So far, we recruited eight to TAMUK.

BIBLIOGRAPHY OF PUBLICATIONS

1-Refereed Journal and Book Chapter:

Louzada ES and C. Ramadugo. (2021) Grapefruit: History, Use, and Breeding. HortTechnology 31:(243-258)

Kunta, M., S Chavez, Z. Vilorio, H.S. Del Rio, M. Devanaboina, G. Yanev, and E.S. Louzada. (2020). Screening of citrus genotypes for *Phytophthora nicotianae* tolerance. HortScience 55:1038-1044.

Braswell W.E., J-W Park, Stansly P.A., Kostyk B.C. E.S. **Louzada**, J.V. da Graca, M. Kunta. (2020). Root sample provides early detection of *Candidatus liberibacter asiaticus* in *Citrus*. Nature Res. Published: 12 October 2020. <https://doi.org/10.1038/s41598-020-74093-x>

Kunta, M., L. Guzman, A.C. Garcia, H.S. del Rio, J. C. Melgar, & **E. S. Louzada** . 2019. Evaluation of physiological parameters in citrus plants transformed with cyclic nucleotide gated ion channel (CNGC) gene. *Acta Horticulturae* 1230: 107-115.

Park, J.-W., **E. S. Louzada**, W. E. Braswell, P. A. Stansly, J. V. da Graça, G. McCollum, J. E. Rascoe & M. Kunta. 2018. A new diagnostic real-time PCR method for Huanglongbing detection in citrus root tissue. *Journal of General Plant Pathology* 84: 359-367.

Kunta, M., L. Guzman, A.C. Garcia, H.S. del Rio, J. C. Melgar, & **E. S. Louzada** . Evaluation of physiological parameters in citrus plants transformed with cyclic nucleotide gated ion channel (CNGC) gene. Accepted, *Acta Horticulturae* DOI 10.17660/ActaHortic.2018.1230.14

Nishikawa, F., **E. Louzada**, J. C. Melgar, M. Kunta & M. Setamou. 2017. Effects of planting bed and plastic mesh as ground cover on flowering of citrus trees. *Bulletin of the NARO Institute of Fruit Tree and Tea Science* 1: 1-8.

Louzada ES, Vazquez OE, Braswell WE, Yanev G, Devanaboina M, Kunta M (2016) Distribution of 'Candidatus Liberibacter asiaticus' Above and Below Ground in Texas Citrus. *Phytopathology* 106:702-709.

Yang X., J. Li, L. Chen, E.S. Louzada J. He, and W. Yu. (2015). Stable mitotic inheritance of rice minichromosomes in cell suspension culture. *Plant Cell Reports* 34: 929-941.

Louzada E.S., and J. Thomson (2015). Development of disease-resistant citrus acceptable to consumers. *Citrograph* 6: 42-46

Kunta M., Z. Vilorio, H.S. Del Rio, and E.S. Louzada. (2014). Diverse DNA extraction methods and PCR primers for detection of Huanglongbing-associated bacteria from roots of 'Valencia' sweet orange on sour orange rootstock. *Scientia Horticultural* 178:23-30.

Kunta M., J.V. da Graça, N. Malik, E. S. Louzada, and M. Sétamou. 2014. Quantitative distribution of *Candidatus Liberibacter asiaticus* in the aerial parts of the HLB-infected citrus trees in Texas. *HortScience* 49: 65-68.

2. Patents and Non-Refereed Publication

Patent application for Texas Red Grapefruit: Published in August 1, 2019 (US 2019 239 407P1)

Received a plaque for the patent "Transformation of glycerol and cellulosic materials into high energy fuel" from the Office of Technology and Commercialization, University System, College Station.

De Figueired, P., L. Li, Z. Nikolov, B.D. Shaw, M.B. Dickman, E.S. Louzada, J.M. Sturino, Y.Y. Chang. (2011) Transformation of glycerol and cellulosic materials into high energy fuel. United States Letter of Patent, Serial No. 13/003,931

De Figueired, P., L. Li, Z. Nikolov, B.D. Shaw, M.B. Dickman, E.S. Louzada, J.M. Sturino, Y.Y. Chang. (2011) Transformation of glycerol and cellulosic materials into high energy fuel. Provisional Patent in Europe

3- Non-refereed Articles

Louzada, E. & J. Thomson. 2019. Introducing plant-derived genes into citrus tissue. *Citrograph* 10(1): 66-68.

Abstracts and Presentations in Professional Society Meetings, Including International:

International:

Park, J.-W., **M. Kunta**, **E. Louzada**, M. Gonzalez, & **J.V. da Graca**. Investigations into an oak leaf inducing agent detected in citrus in Texas. Int.Org.Citrus Virol./ Int. Res. Conf. HLB, Riverside CA (March 2019)

da Graca, J. V., J.-W. Park, G. Cook, **E. S. Louzada**, J. E. Rascoe & M. Kunta. A new real-time PCR method for the detection of *Candidatus Liberibacter africanus* (CLaf) in citrus root tissue. Int.Org.Citrus Virol./ Int. Res. Conf. HLB, Riverside CA (March 2019)

Park, J.-W., **E. S. Louzada**, W. E. Braswell, P. A. Stansly, T. G. McCollum, J. V. da Graca & M. Kunta. Long-term evaluation of *Candidatus Liberibacter asiaticus* detection in citrus root tissue as a tool for improved CLas detection. Int.Org.Citrus Virol./ Int. Res. Conf. HLB, Riverside CA (March 2019)

National:

Simpson, C., J. da Graca, V. Ancona, D. Laughlin, **E. Louzada**, M. Kunta & K. Mandadi. The state of Texas citrus in the era of HLB. American Society for Horticultural Science Meeting, Las Vegas NV (July)

Kunta, M., S. Chavez, Z. Vilorio, G. Yanev, M. Devanaboina & **E. Louzada**. Screening citrus genotypes for *Phytophthora nicotianae* tolerance. American Phytopathological Society Meeting, Cleveland OH

Local:

Guzman, E. , J.-W. Park, **E. S. Louzada** & M. Kunta. Exploration of prophages in *Candidatus L. asiaticus* strains in Texas. Subtropical Agriculture & Environments Society Meeting, 2019

Boyapati, V. N., **E. S. Louzada**, M. Kunta, J. V. da Graca & C. Simpson. Testing drought tolerance in Carrizo citrus through elevated expression of RhNAC2 and RhEXPA4 genes from rose plant. Subtropical Agriculture & Environments Society Meeting, 2019

Ly, A. & **E. S. Louzada**. Evaluation of plant promoter strength for genetic transformation of citrus. Subtropical Agriculture & Environments Society Meeting, 2019

Kavuri, N. R. & **E. S. Louzada**. Recombinase mediated marker excision in citrus protoplasts. Subtropical Agriculture & Environments Society Meeting, 2019

Tammineedi, M. & **E. Louzada**. Biolistic transformation of Carrizo citrange with whole plasmid and minimum cassette using Mcherry fluorescent protein as visual marker. Subtropical Agriculture & Environments Society Meeting, Monte Alto TX (Feb. 2018)

Park, J.W., J. Brockington, C. Medelez, M. Gonzalez, **E. S. Louzada, J. V. da Graca & M. Kunta**. Citrus fibrous roots: an alternative sources material for Huanglongbing (HLB) diagnosis at pre-symptomatic stage. Subtropical Agriculture & Environments Society Meeting, Monte Alto TX (Feb. 2018)

Kunta, M. , L. Guzman, A. C. Garcia. H. S. del Rio, **J. C. Melgar & E. S. Louzada**. Transformation of citrus plants with cyclic nucleotide-gated channel (CNGC) gene to develop broad-spectrum disease resistance. International Symposium on Citrus Biotechnology, Canelones, Uruguay (April 2018)

Louzada, E. Development of marker-free transgenic plants using recombinase mediated cassette exchange. International Symposium on Citrus Biotechnology, Canelones, Uruguay (April 2018)

Louzada, E. From discovery to patenting: a voyage with the Texas Red grapefruit. Annual Texas Citrus Mutual Meeting, Mission TX (May 2018)

Louzada ES. Development of consumer friendly transgenic plants with potential broad spectrum disease resistance. California Citrus Conference, Visalia. October 2018

Park, J.-W., J. Brockington, **E. Louzada**, B. Kostyk, P. Stansly, G. McCollum, **J. V. da Graca**, W. E. Braswell, & **M. Kunta**. Diagnosis of huanglongbing-associated *Candidatus Liberibacter* species in citrus roots by real-time PCR using primers targeting 16s rDNA and *nrdB* genes. Abstract page S1.61 International Congress of Plant Pathology, Boston MA (July/Aug. 2018) (Abstracts in Phytopathology Vol 108 Oct. Suppl)

Kavuri, N. & **E. Louzada**. Optimization of excision events of recombinase at different temperatures and chemical concentrations. 1st Binational Symposium of Young Scientists, Weslaco TX (Nov. 2018)

Bernal-Jimenez, E., **E. Louzada** & Y. E. Cerino. Development of recombinase technology to produce consumer friendly transgenic plants. Subtropical Agriculture & Environments Society, Weslaco TX (Feb. 2017)

Chavez, S., M. Kunta & **E. Louzada**. Screening for *Phytophthora nicotianae* resistance of different citrus rootstocks and hybrids. International Research Conference on Huanglongbing, Orlando FL (Mar. 2017) Abstracts (J.Citrus Pathol.): <https://escholarship.org/uc/item/2cr0f2kc>

Park, J.W., J. Brockington, W.E. Braswell, B. C. Kostyk, P. A.Stansly, **E. S. Louzada**, J. V. da Graca & M. Kunta. Long-term study of Huanglongbing diagnosis using fibrous root tissue. *J.Citrus Pathol.* [iocv_journalcitruspathology_34714:45](#).

Louzada, E., O. Vazquez, S. Chavez, J.-W. Park, P. Vedasharan & **M. Kunta**. Optimization of PCR for reliable detection of viable *Candidatus Liberibacter asiaticus* (CLAs) in citrus and estimation of viable CLAs in symptomatic grapefruit leaves of different developmental stages during summer and fall. International Research Conference on Huanglongbing, Orlando FL (Mar. 2017)

da Graca, J. V., M. Kunta, M. Setamou, V. Ancona, **E. S. Louzada**, O. J. Alabi, D. W. Bartels, M. N. Duffel & J. Dale. Huanglongbing in Texas 2012-2017 – an update. *J. Citrus Pathol.* : [iocv_journalcitruspathology_34714: 8](#).

Bernal-Jimenez, E., **E. Louzada** & Y. E. Cerino. Development of recombinase technology to produce consumer friendly transgenic plants. Javelina Research Symposium, Kingsville TX (April 2017)

Chavez, S., M. Kunta & **E, Louzada**. Screening for *Phytophthora nicotianae* resistance of different citrus rootstocks and hybrids. Javelina Research Symposium, Kingsville TX (April 2017)

da Graca, J. V., M. Setamou, **E.Louzada**, S.Nelson, V. Ancona, M. Kunta, C. Simpson. The Citrus Center's impact on the Texas citrus industry. Texas Citrus Mutual Annual Meeting, Mercedes TX (May 2017)

Park, J. W., W. E. Braswell, P. Stansly, J. Rascoe, **E. Louzada**, G. McCollum, J. V. da Graca & M. Kunta. A new diagnostic real-time PCR method for huanglongbing detection in citrus root tissue. American Phytopathology Society Meeting, San Antonio TX (Aug. 2017)
Abstracts: <https://apsjournals.apsnet.org/doi/pdf/10.1094/PHYTO-107-12-S5.1> Phytopathology 107: S5.54

Kunta, M., P. Vedasharan, J. W. Park & **E. Louzada**. First report of *Armillaria* spp. infecting citrus trees on sour orange rootstock in the Lower Rio Grande Valley, Texas. American Phytopathology Society Meeting, San Antonio TX (Aug. 2017)
Abstracts: <https://apsjournals.apsnet.org/doi/pdf/10.1094/PHYTO-107-12-S5.1>Phytopathology 107: S5.98-99

Louzada ES and M Kunta (2016) Optimization of procedure to detect only viable *Liberibacter asiaticus*. Live & Dead Workshop, CREC Florida

Park, J.W., J. Brockington, O.Vazquez, E.Louzada, J. da Graca & M. Kunta. Evaluation of root tissue as a source material for Huanglongbing (HLB) diagnosis in citrus Subtropical Agriculture & Environments Society meeting, Weslaco TX (February 2016)

Vedasharan, P. M., S.D.Nelson, M.Kunta & E.Louzada. Correlation of viability of *Candidatus Liberibacter asiaticus* with symptom development and age of leaf tissues. Subtropical Agriculture & Environments Society meeting, Weslaco TX (February 2016)

Vazquez, O.E., S. Chavez, M.Kunta & E.S.Louzada. Quantification of live and non-viable *Candidatus Liberibacter asiaticus* bacterial titers in the leaf midrib tissue of HLB-infected Rio red grapefruit trees. Subtropical Agriculture & Environments Society meeting, Weslaco TX (February 2016)

Kunta, M., E. Braswell, M. Gonzales, E. Louzada, J. da Graca & G. Yanev. Seasonal effects on *Candidatus Liberibacter asiaticus* titers in grapefruit trees in Texas. International Organization of Citrus Virologists, Chongqing, China (April 2016)

Park, J.W., J. Brockington, O.Vazquez, E. Braswell, E. Louzada, J. da Graca & M. Kunta. Huanglongbing (HLB) diagnosis in citrus using fibrous root tissue. International Organization of Citrus Virologists, Chongqing, China (April 2016)

Louzada E.S., O. Vazquez, S. J. Schneider, and M. Kunta (2015). Optimization of the detection of viable '*Candidatus Liberibacter asiaticus*' bacterium in citrus tissue. American Phytopathological Society Meeting 105:11 S4.85.

Chavez, S.E., O.E.Vazquez, M.Kunta & E.S.Louzada. Quantification of viable *Candidatus Liberibacter asiaticus* in citrus leaf mid-ribs. American Society of Plant Biologists, Austin TX (July 2016)

Kunta, M., E. Louzada, & P. Vedasharan. Viability of *Candidatus Liberibacter asiaticus* in grapefruit leaves at different stages of maturity and Huanglongbing disease symptom development. American Phytopathology Society Meeting, Tampa FL (Aug. 2016)

Louzada, E. S., O. Vazquez, G. Yanev, M. Devanaboina & M. Kunta. Distribution of *Candidatus Liberibacter asiaticus* above and below ground in Texas citrus. International Citrus Congress, Foz do Iguacu, Brazil (Sept. 2016)

Louzada, E. S., A. Reyes, Z. Vilorio, H. S. del Rio & M. Kunta. Over-expression of a cyclic nucleotide gated ion channel gene in citrus induces broad-spectrum disease resistance. International Citrus Congress, Foz do Iguacu, Brazil (Sept. 2016)

Kunta, M., J. da Graca & E. Louzada. Early detection of citrus huanglongbing in Texas and potential expanded disease detection and management strategies in collaboration with the ICAR-National Research Center. International Trichoderma and Gliocladium Workshop, Nagpur, India (Nov. 2016)

Vazquez, O.E., S.E.Chavez, M. Kunta & E.S. Louzada. Development of a method for better quantification of viable *Candidatus Liberibacter asiaticus* bacteria in citrus leaf midribs. Texas A&M University System Pathways Symposium, Prairie View TX (Nov. 2016)

Bernal Jimenez, E.K., E. Louzada & Y. E. Cerino. Development of recombinase technology to produce consumer friendly transgenic plants. Texas A&M University System Pathways Symposium, Prairie View TX (Nov. 2016)

4. Funded Grants

Da Graca John, E.Louzada, M.Setamou, V.Ancona, C.Simpson. (2019) Sustainable technical support for Citrus Center research programs. Texas Citrus Producers Board. \$ 129,008.

Louzada (2019) Development of 'all plant' transgenic citrus with potential broad spectrum disease resistance by gene gun. California Citrus Research Board. \$177,429.83

Louzada (2019) BioGold gift \$15,000

Louzada ES (2018) Development of non-transgenic HLB resistant citrus varieties using CRISPR-Cas9. USDA-SCRI, \$457,006

Da Graca John, E.Louzada, M.Setamou, V.Ancona, C.Simpson. Sustainable technical support for Citrus Center research programs. Texas Citrus Producers Board. \$109,672.

Louzada, ES and J. Thomson (2018) Development of "all Plant" transgenic citrus with potential broad spectrum disease resistance using gene gun. \$ 184,980, California Citrus Research Board

Louzada, ES (2018) Biogold gift for mutation breeding. \$15,000

Louzada, ES (2017) Bridging students from a 2-year college to a 4 year university and retention NIFA-HSI, \$275,000

Louzada, ES and J. Thomson (2017) Development of "all Plant" transgenic citrus with potential broad spectrum disease resistance using gene gun. \$ 192,394, California Citrus Research Board

Da Graca, E.Louzada, M.Setamou, V.Ancona, C.Simpson (2017) Sustainable technical support for Citrus Center research programs 2016-17. \$109,672

Louzada, ES and J. Thomson (2016) Development of "all Plant" transgenic citrus with potential broad spectrum disease resistance using gene gun. \$205,000, California Citrus Research Board

Keniry M and ES Louzada (2016) An Experiential Learning Program at Two Hispanic Serving Institutions Focused on Water for Agriculture, Food Safety and Childhood Obesity and Prevention. \$88,842 USDA- HSI

Da Graca, J, M Setamou, V Ancona-Contrera, C Simpson, ES Louzada (2016) Sustainable technical support for Citrus Center research programs. \$114,251, TCPB

Screening citrus rootstock and scion, and transgenic plants for Huanglongbing tolerance/resistance, Funding Source: \$6,000 TCPB

Louzada, ES and J. Thomson (2015) Development of consumer-friendly transgenic citrus plants with potential broad spectrum resistance to HLB, Citrus canker, *Phytophthora* and other exotic diseases. \$110,469. Citrus Research Board, California

Kunta, M, ES Louzada, et al. (2015) Validation of early detection method and development of high throughput diagnosis of HLB using root samples. APHIS- HLB Multi-Agency Coordination (MAC). \$744,675.

Stover E, J. Thomson, and E.S. Louzada (2015) Development of mature budwood transformation technology. CRB. \$5,000

Da Graca J., E.S. Louzada, M. Setamou, V. Ancona, C. Simpson (2015). Sustainable Technical Support for Citrus Center Research Programs. TCPB. \$53,784 total. \$13,446 per faculty

Louzada, ES and J. Thomson (2014) Development of consumer-friendly transgenic citrus plants with potential broad spectrum resistance to HLB, Citrus canker, *Phytophthora* and other exotic diseases. \$108,802. Citrus Research Board, California

5- Grants Submitted (not funded)

Hailing Jin, J Thomson and E.S. Louzada (2017) Combination of CRISPR/Cas9 and RMCE technologies to develop HLB resistant/tolerant Citrus cultivars. NIFA SCRI, \$783,470.44

Wang Nian, M. Dutt, F. Gmitter, J. Jones, J. Grosser, L. House, E.S. Louzada, T. Vashisth, F. White, B. Yang (2017) Developing HLB resistant/tolerant citrus varieties that are free of foreign DNA. NIFA- SCRI \$457,006.57

Dasgupta K. E.S. Louzada and J. Thomson (2017) Combination of CRISPR/Cas9 and RMCE technologies to develop HLB resistant/tolerant citrus cultivars. NIFA SCRI, \$849,347

Louzada E.S. (2017) Development of Proprietary Specialty Citrus Varieties. StarGrow, \$313,570

Wang Nian, M. Dutt, F. Gmitter, J. Jones, J. Grosser, L. House, E.S. Louzada, T. Vashisth, F. White, B. Yang (2015) Developing HLB resistant/tolerant citrus varieties that are free of foreign DNA. NIFA- SCRI \$482,332 (For TAMUK)

Louzada ES, and S Gavito (2016) Bridging Students from a 2-year College to a 4-year University, and Retention \$274949 USDA-HSI

Kunta M and ES Louzada (2016) Production of *Phytophthora* resistant sour orange rootstock plants for Texas growers. \$15,000 TCPB

Kranthi M and ES Louzada (2016) Pathways to Plant Sciences: Undergraduate Research Experiential Program for Hispanic Minority Students of South Texas. \$65,040 AFRI-REEU

Kunta M and ES Louzada (2016) USDA APHIS PPQ MAC – Establishment of *Candidatus Liberibacter asisticus* early detection by comparison of four different real-time PCR systems \$171,295

Wang Nian, M. Dutt, F. Gmitter, J. Jones, J. Grosser, L. House, E.S. Louzada, T. Vashisth, F. White, B. Yang (2015) Control of citrus canker by developing canker resistant varieties. NIFA- SCRI \$2.9 M

PROFESSIONAL GROWTH ACTIVITIES

1. Membership in Professional Societies.

- Member of the American Phytopathological Society
- Member of the American Society of Horticultural Sciences.
- Member of the International Society of Horticultural Sciences.
- Member of the International Society of Citriculture.
- Member of the Rio Grande Valley Horticultural Society.

2. Leadership Roles in Professional Societies.

- Member of the AdHoc Committee for Citrus nomenclature.
- Associate editor- Fruit for the Subtropical Plant Science Society
- Member of the Citrus Germplasm Committee (CGC)- USDA
- Member of the HLB Early Detection Working Group
- Member of the HLB Science Advisory Working Group

3. Attendance of Meetings

- Attended the National Citrus Breeding Collaboration Meeting, February 2018
- USDA-HSI Project Directors Conference, Washington, February 2018
- Attended the Citrus Regulatory Summit- Movement of Citrus Propagated Materials, Denver, October 2018
- California Citrus Conference, Visalia. August 2018
- International Symposium on Citrus Biotechnology, Canelones, Uruguay (April 2018)
- Annual Texas Citrus Mutual Meeting, Mission TX (May 2018)
- Subtropical Agriculture & Environments Society Meeting, Monte Alto TX (Feb. 2018)
- Attended the quarterly Citrus Center Advisory Committee Meeting (2018)
- Subtropical Agriculture & Environments Society, Weslaco TX (Feb. 2017)
- International Research Conference on Huanglongbing, Orlando FL (Mar. 2017)
- American Phytopathology Society Meeting, San Antonio TX (Aug. 2017)
- California Citrus Conference, Visalia. October 2017
- 2016 International Citrus Congress, Iguacu Falls, Brazil
- Live & Dead bacteria workshop, Lake Alfred, Florida 2016
- CRB Project review Committee on HLB. Davis, CA 2016
- Attended the 2015 American Phytopathological Society Meeting. Pasadena CA.
- Attended the meeting of the USDA National Clonal Repository for Citrus and Dates-Crop Germplasm Committee- FL
- Attended the Citrus rootstocks planning meeting, Florida, Sept. 29-Oct. 01, 2015.
- Attended the Citrus Research Board meeting- August 25-27, 2015
- Attended the IV International Research Conference on Citrus HLB. Feb. 09-13, 2015, FL
- Attended and made presentation at the TCM Special Mid-Year Membership Meeting. 2015.

4. Other Activities

- Renewal of BARD Proposal “Elucidating how durable disease resistance curtains.....”
- Evaluation of the NIFA research proposal “Peptide-Mediated Disruption of the Causative.....
- Reviewed the manuscript An Improved Method to Track Changes of Candidatus....., for HortScience
- Reviewed the manuscript Ground Application Overdoses of Manganese Show a Therapeutic.... for HortScience.
- Reviewed the manuscript Determination of Blooming, Pollen and Fruit Set Characteristics.... for Notulae Botanicae Horti Agrobotanici Cluj-Napoca (ISI 'Plant Sciences')
- Renewal of APHIS permit for field trial of transgenic plants
- Reviewed the manuscript Yield and transformation ability, HortScience
- Reviewed the manuscript New somatic hybrid mandarin tetraploids....., J. Amer. Soc. Hort Sci.

- Reviewed the manuscript Genetic diversity and association study of aromatics...., J. Amer. Soc. Hort Sci.
- Reviewed the manuscript High efficiency propagation of mature 'Washington...., HortTechnology.
- Reviewed the manuscript Ground Application Overdoses of Manganese Show...., HortScience
- Reviewed the manuscript New somatic hybrid mandarin tetraploids generated...., J. Amer. Soc. Hort Sci.
- Reviewed the manuscript Determination of Blooming, Pollen and Fruit Set Characteristics in Pomegranate...., Notulae Botanicae Horti Agrobotanici Cluj-Napoca
- Reviewed the manuscript Cytological Study of Sex Conversion in Grapevine...., J. Amer. Soc. Hort Sci.
- Reviewed the manuscript Huanglongbing (HLB) Induced Anatomical..., HortScience
- Participated in the 2018 TAMUK-Citrus Center Staff appreciation luncheon. 2018
- Review of a Bard Research proposal. 2017
- Review the manuscript Huanglongbing induced anatomical.....Journal of the American Society for Hort. Science. 2017
- Reviewed the manuscript Bradyrhizobium isolated from huanglongbing....., European Journal of Plant Pathology. 2017
- Reviewed the manuscript Genetic diversity and association study....., Journal of the American Society for Hort. Sci. 2017
- Second review for the manuscript Huanglongbing induced anatomical.....Journal of the American Society for Hort. Science. 2017
- Second review on the manuscript Genetic diversity and association study....., Journal of the American Society for Hort. Sci. 2017
- Reviewer one manuscript for the Journal of Subtropical Agriculture and Environmental Society. 2016
- Reviewer one manuscript for the Revista Brasileira de Fruticultura, Brazil 2016
- Reviewer two manuscripts for the Journal of American Society for Horticultural Science. 2016.
- External examiner for a Ph.D. thesis- Pakistan -2016

SERVICE ACTIVITIES

1. Membership on University, College, and/or Department Committees
 - Member of the Texas A&M University-Kingsville Institutional Biosafety Committee
 - Evaluated 20 IBC packages and had several meeting and training during 2017.
 - Chair of the Department Tenure Committee
 - Member of the College promotion Committee.
 - Member of the Undergraduate Program Review Committee

- Member of the early detection working group.
 - Met to discuss status of surveys, training needed for growers, handling of samples and early detection using root samples.
- Council for Undergraduate Research- TCUR.
 - Had several meeting during the year to discuss about internal grants, to review and decide proposals to be funded.
- Institutional Biosafety Committee.
 - Participated in several meeting to analyze projects and decide if they are in accordance with the safety regulations NIH and other organs. This year we approved 5 projects

2. Recruitment Activities

- Recruited three students from TSTC to TAMUK.
- Provided tour at the Citrus Center to several students from TSTC-2018
- Organized internships for 6 students from TSTC

3. Special Events

- Participation in the 2018 Citrus Center Winter Festival
- Attended the DMLK College of Ag. Nat Res. Hum. Sci. award dinner-2018
- Attended the TAMUK- President's Leadership Council- McAllen- 03/11/2014
- Attended the Academic Leadership Alliance Closing Luncheon, representing the Citrus Center.
- Attended the Commencement in May 2014
- Attended the commencement in May 10, 2013.
- Attended the College Olympic party.
- Attended the Texas Citrus Showcase & Mid-year meeting.
- Attended the Years of Service Awards and Retirement Luncheon.

4. Services Activities Outside the University

- Member of the Citrus Ad Hoc Committee on Citrus classification. 2018
- Board member for the Texas Valley Citrus Committee- 2018
Meet a few times a year to discuss issue related to marketing of citrus.
- Invited to make presentation for students at the Mercedes Early Childhood Center. 2018
- Invited for presentation to more than 100 students in the career day at Taylor Elementary School.
- Invited for presentation to EG Salazar Elementary School- Donna-2018
- Invited to make presentation to students at Donna High School T-STEM Academy- 2018

