

**JEANMARIE VERCHOT, PHD**  
**CENTER DIRECTOR**  
Texas A&M Agrilife Research & Extension Center-Dallas  
17360 Coit Road  
Dallas, Texas 75252  
[Jm.verchot@ag.tamu.edu](mailto:Jm.verchot@ag.tamu.edu), phone: 972-231-5362

**Country of citizenship:** United States of America

**Education**

1991-1995 Ph.D. Microbiology, Texas A&M University, advisor Jim Carrington  
1987 B.S. Genetics (Molecular) Cook College at Rutgers University

***PROFESSIONAL WORK EXPERIENCE***

July 2019-2022 Faculty Fellow of the Institute for Plant Genomics and Biotechnology, Texas A&M University, College Station TX 77845  
July 2019-Dec 2019 Special Assistant to the Vice Chancellor, Texas A&M University, College Station TX 77845  
Jan 2017-June 2019 Director, Texas A&M Agrilife Center in Dallas, 17360 Coit Rd, Dallas TX 75252  
2017- Professor Plant Virology, Texas A&M University, Dept of Plant Pathology and Microbiology  
2018- Adjunct Professor at University of Texas, Dallas  
2011-2017 Chief Scientific Officer, VF Canna LLC  
2009 -2017 Professor, Oklahoma State University, Dept of Entomology and Plant Pathology,  
2004-2009 Associate Professor, Oklahoma State University, Dept of Entomology and Plant Pathology  
1998-2004 Assistant Professor, Oklahoma State University, Dept of Entomology and Plant Pathology  
1996-1998 Post-doctoral Research Scientist. Sainsbury Laboratory, Norwich Research Park, Colney, Advisor: Sir David Baulcombe, FRS  
1987-1991 Research Technician, Enichem Americas, Princeton, NJ

***Honors and Awards***

2019 Fellow of the Institute of Plant Genomics and Biotechnology, Texas A&M University  
2015 Regents Distinguished Researcher Award from OSU  
2013 President, OSU Sigma XI chapter  
2012 Vice-President OSU Sigma Xi chapter  
2007 Invited Visiting Scholar, Cambridge University  
2006-present Member of Sigma XI  
1993 W.R. Grace Graduate Student Fellowship

**Offices Held and National/International Service Performed**

2019 Co-Organizer for Satellite Symposium at International Society Plant Microbe Interactions Conference in Glasgow Scotland: "Extra- and Intracellular Perception of Viruses"  
2018- The ASV Ann Palmenberg Junior Investigator Award Committee member  
2018- Co-Organize symposium at American Society Virology held at Univ Maryland entitled: "Frontiers in Science through cooperation between Norther America, Mainland China and Taiwan"

- Co-Organize Joint UT Dallas and TAMU Dallas Center research symposium to showcase technology on both campuses.
- 2018 Guest Editor for Special issue "Plant-Virus Interactions" in the MDPI journal *Viruses*.
- 2019 Guest Editor for Special issue of "Timely Topics In Plant Virology" in the *Molecular Plant Pathology Journal*. The topic is "*Extracellular and intracellular perception of plant viruses*"
- 2017-present Plant Virology Councilor to the American Society Virology
- 2017 Provided consultation to Swedish University of Agriculture Sciences for hiring a new Plant Virology Faculty member
- 2012-pres Chief Scientific Officer for VF Canna LLC launched in collaboration with Cowboy Technologies
- 2013-2015 American Society Virology Conference Organization committee,
- 2008-2012 American Society Virology Student Travel Grant committee, final year as Chair
- 2000 Co-organizer and chair of a symposium at the APS entitled *Viruses with Fungal Vectors*.

**A. SERVICE ON ACADEMIC COMMITTEES AT TEXAS A&M AGRILIFE**

- 2017-present Participate in bi-monthly meeting of Center Directors
- 2018 Participated in Committee to review Shared Governance Procedures
- 2018 Participated in Committee to recommend P&T Process Improvement
- 2018 Chaired committee for Professional Development Needs for Unit Leads

**B. SERVICE ON ACADEMIC COMMITTEES AT OKLAHOMA STATE UNIVERSITY**

*Duties and accomplishments:* As a faculty member I have served on Faculty Counsel and voluntarily contributed to planning, administrative or review committees involving intellectual property, university infrastructure, faculty mentorship, student mentorship. Such committees are critical to University operations.

- 2015- 2016 University Intellectual Property Review Committee
- 2015-2016 Advisory Committee to VPR for Microscopy Core Facility
- 2012 OSU Forward To Advance Symposium organizer
- 2010-2016 Member of ADVANCE OSU, providing faculty mentorship in STEM
- 2011 Attend OSU Forward to ADVANCE workshop training at Galladet University
- 2010-2016 Member Faculty Council Long-Range Planning and Informational Technology Committee.
- 2013 Vice Provost Task Force for Student Retention. Working with Faculty Development subcommittee and Diversity subcommittee
- 2010-2012 Member Faculty Council
- 2010-2012 Member Faculty Council Student Affairs and Learning Resources Committee.
- 2013-2015 Grade Appeals Board member and Chair in 2015
- 2012-2014 Co organizer for Science Café at the Edmond Lower Library.
- 2012 Search and Screen Committees for Faculty in Plant and Soil Sciences
- 2012-present Member International Agriculture MSc Program
- 2011 Hosted visiting students from UPAEP during month of June
- 2005-06 Secretary for Group I Biological Sciences Graduate Faculty
- 2004-present Core Facility Advisory Committee

**A. DEPARTMENT SERVICE AND ACTIVITIES (OKLAHOMA STATE UNIVERSITY)**

- 2014-2015 Chair Committee to revise Department RPT guidelines

2009– present    Infrastructure Improvement Committee  
2010                Seminar Organizing committee  
2007-2012        Reappointment, Promotion, Tenure Committee  
2011-2012        Chair Reappointment, Promotion, Tenure Committee  
2004-06           Graduate Coordinator  
2000-2007        Graduate Student Recruitment Committee  
2006                Search and Screen Committee for Head Dept Entomology/Plant Pathol

**B.     *Invited Presentations at National/International Conferences***

**2018**

October 15-16, Presentation at the Chinese Society Meeting of Plant Virology

July 2018        Presentation at the American Society for Virology

**2017**

Aug 17-21, The 5<sup>th</sup> International Conference on Biotic Plant Interactions, Xiamen China. Presented research paper: IRE1/bZIP60 pathway controls plant virus infection in potato.

**2016**

Viruses 2016, Basel Switzerland “ How viruses deal with a stressed out ER

January 2016

International Society Plant Microbe Interactions, “ER and unfolded protein response to potexviruses and potyviruses” Portland Oregon. July 2016

**2015**

American Society Plant Biology, “ER and unfolded protein response to potexviruses and potyviruses”

Korean Society Plant Pathology, “ER and unfolded protein response to potexviruses and potyviruses”

**2013**

Invited speaker at Gordon Research Conference entitled Viruses in Cells, held in Tuscany Italy May 2-6, “ Role of unfolded protein response in plant virus infection”.

Invited speaker at Mid Atlantic Plant Molecular Biology Society meeting. Aug 15-16 2013, “The vital role of cellular chaperones and co-factors as partners in plant virus infection”.

**2012**

American Society Virology, Plant Virology Symposium . “Role of the endomembrane network in virus infection”.

Korean Society Plant Pathology “Role of the endomembrane network in virus infection”.

**2008**

International Plant Microbe Interactions Conference, Academia Sinica, Taipei, Taiwan

American Society Plant Biology, Merida Mexico.

International Congress Virology, Istanbul Turkey

International Working Group on Viruses with Fungal Vectors, Quedlinburg Germany

**2007:** Cambridge University, Dept Plant Biology

**D.     *National/International Invited Seminars***

2019    Academia Sinica, Taipei, Taiwan, Mar 9-11

        National Chung Hsing University, Taichung Taiwan, Mar 12

        Nanjing Agricultural University, China    Mar 13

        Nanjing Normal university, China    Mar 15

        KeyGene NV, Amsterdam Netherlands

        Virology Dept at University of Wageningen, Netherlands

- 2018 UC Davis Dept of Plant Pathology & Microbiology, Feb 5-6 2018  
Shandong Agriculture University, October 14, 2018
- 2017 USDA NIFA program seminar required for grant, Nov 2017  
Dept of Plant Pathology at Texas A&M University August 2017
- 2016 IBMP, Strasbourg France, Invited Seminar Jan 29, 2016  
USDA NIFA program seminar required for grant, May 2016  
AGRIGENOMICS Symposium, India August 2016  
Dept Microbiology, Oklahoma State University, Sept 2016  
Plant Pathology, University of Wisconsin, Oct 2016  
Global Horticulture Symposium, Oklahoma State University Nov 2016
- 2015 Invited external examiner University of Helsinki, Finland.  
Invited Seminar University of Tokyo, Japan  
Invited Seminar Chonbuk National University, Korea  
Invited Seminar Korean Society Plant Pathology
- 2014, Science and Technology Seminar Series at North Eastern State University  
Wed April 9. "Cells and viruses"
- 2013 Invited seminar speaker at University of Barga in Italy May 7, "Role of the endomembrane network in virus infection".
- 2009 Rutgers University, NJ
- 2008 U. Massachusetts, Boston,  
University of Indiana, Bloomington Indiana  
Ohio State University, Columbia, OH
- 2007 University of Oklahoma, Dept Chemistry and Biochemistry  
Cambridge University, Plant Biology Dept (England),  
John Innes Center, England

### ***E. Conferences attended and Organized***

#### **2019**

*July 17:* International Society Molecular Plant Pathogen Interactions: Satellite Symposium on Intracellular and Extracellular Perception of Plant Viruses

#### **2018**

*July 12-17:* American Society Virology (ASV), Symposium Organizer for Plant Virology Symposium "Frontiers in Plant Virology, Alliances of North America, Mainland China, and Taiwan". ASV session convenor and speaker

*July 21- Aug 2:* American Society Plant Pathology

*October 12-21:* Chinese Society Plant Virology Conference

#### **2017**

*Dec 15:* NIFA Project Directors Meeting

*June 26-30:* Attend American Society Plant Biology, Honolulu HI

*Sept 11-13:* Ag Innovations Showcase in St Louis, MO. (presenting high impact innovations from academia and industry sectors)

*Nov1-4:* Plant Genomes and Gene Editing USA, Philadelphia PA ((presenting high impact innovations from academia and industry sectors)

### ***F. Reviewing Activities***

#### ***i. Panelist:***

2015 USDA-NIFA Plant Pathogen Interactions

2013 USDA-SBIR panel member

2011      USDA-SBIR panel member  
2008      Consultant for LSU Board of Regents Grant  
2009      Panel member USDA-ARS NP303 Pathogen Biology internal review panel

### **G. Editorships:**

#### **Current**

Senior Editor for Molecular Plant Pathology 2015-2018, renewed 2018-2021  
Associate Editor Journal of Virology 2012-present  
Special Issue Editor for Molecular Plant Pathology 2019

#### **Past:**

Special Issue Editor for Viruses 2018  
Guest Editor Plant Cell, 2016-2017  
Associate Editor Molecular Plant Pathology 2012-2014  
Associate Editor for Molec. Plant-Microbe Interact. 2004-2006, 2007-2009  
Associate Editor for Virology Journal 2005-2006,  
Associate Editor for Virology 2011-2013

#### **iv. Ad hoc reviewer for the following journals:**

Phytopathology, Plant Cell, Plant Physiology, Plant Disease, Virology, Journal General Virology, Virus Research, PNAS, Plos Pathogens, Plant Signalling and Behavior

### **H. PROFESSIONAL AFFILIATIONS AND SERVICE**

1990-present American Association for the Advancement of Sciences  
1990-present American Society for Virology  
1997-present American Society for Phytopathology  
2002-present American Society of Plant Biology  
2005-present American Society of Microbiology  
2005-2017 Sigma Xi

### **TEACHING AND RELATED ACTIVITIES**

Micro 4123, Virology.  
PLP 5012 Plant Virology Laboratory.  
PLP 5013 Plant Virology  
For 5623. Advance Methods in Plant Biotechnology  
PLP 5623 Advance Plant Biotechnology Methods.  
MICRO 5153 Emerging Infectious Diseases  
PLP 5724 Physiology of Host Pathogen Interactions

### **A. Post Doctoral Associates Supervised**

1999-2001 Hanbing An  
1999-2002 Krishnamurthy Konduru  
2002-2004 Chang Ming Ye  
2001-2003 Modan Das  
2003-2005 Timmy Samuels  
2006-2007 Byueng An Min  
2017-2018 Gabriela Orquera-Tornakian  
2017- David Pang  
2018- Matheiu Gayral  
2018- Venura Herath

## **B. Graduate Students (Committee Chair or Co-Chair)**

- Yang Yang. MSc, failed to graduate Dec 2000. Title: Analysis of PVX TGBp1 cell-to-cell movement.
- Barbara Driskel. MSc, graduated Dec 2002. Title: Analysis of Soilborne wheat mosaic virus, Wheat spindle streak mosaic virus, and Polymyxa graminis in wheat and barley. Currently Research technician with USDA
- Jeannie Te. MSc Graduated Dec. 2003. Title: Analysis of the Soilborne wheat mosaic virus 19K and 37K proteins. Currently Research technician with OMRF
- Amanda Howard. MS graduated Dec 2003. Title: Evidence the Potato virus X TGBp1 protein gates plasmodesmata and interacts with TGBp2 and TGBp3 for virus cell-to-cell movement. Currently PhD student with Dr. Bernie Moss at NIH
- Ruchira Mitra. PhD. Graduated Dec 2004. Title: Evidence the Potato virus X TGBp2 and TGBp3 proteins are ER targeted for virus cell-to-cell movement. Currently Post doc at NIH and then again at OSU
- Ho-Jung Ju. PhD. Graduating May 2007. Title: Role of the PVX membrane binding proteins in virus movement and replication. Currently Post doc with Dr. S. Grey at Cornell
- Tefera Mekuria. PhD Graduating May 2007. Title: Role of the PVX proteins in viral vascular transport. Post doc at U. Washington
- Devinka Bamunusinghe. MSc Graduating May 2008. Title: Subcellular targeting of the PVX replicase. Currently PhD student at UC Riverside
- Asitha Silva, MSc. Graduating May 2010. Title: Nanoparticle delivery to plants
- Chenxing Niu, MSc. Graduating May 2011 Title: Vascular transport of protein and virus nanoparticles
- Ravendra Chauhan, PhD, graduating 2017. Title: Canna yellow mosaic virus characterization
- Dulanjani Wijayasekara, MSc graduating 2016 Title: Canna yellow mottle virus characterization
- Omar Arias, MSc, graduating 2017 Title: Virus interactions with ER stress machinery in potato
- Aastha Thapa, MSc, graduating 2018: Canna viruses.

## **C. Graduate Students (Committee Member since 2005)**

Ian Moncrief  
Mohammed Saleh  
Nyghia Nyugen  
Nin Song  
Brandon Leutke  
N. Ngyen

## **D. Undergraduate Research Scholars since 1999-2017 at Oklahoma State University**

Lola Hamitsu	Wentz Scholar
Amanda Howard	NSF REU
Marty Heppler	OKAMP, American Society Microscopy Scholar
James Brown	OKAMP, NABS, NSF REU American Society Microscopy Scholar
Brad Edwards	NSF REU
Andrea Hall	NSF REU
Hannah Schreiber	Dept Microbiology
Vicki Kelly	OKAMP scholar
Hayden Hamon	NOC scholar
Alex Webb	Microbiology, nominated student employee of the year for 2013
Haley Jaynes	microbiology student
Hayden Hamon	NOC biology student
Hanna Jones	Dept Entomology & Plant Pathology ; Wentz Scholar
Mark Alex Webb	Dept Integrative Biology
Austin Gimondo	Dept Horticulture

Logan Nofziger      Dept Integrative Biology  
Victoria Pickens    Dept Entomology & Plant Pathology

### **Undergraduate Research Scholars since 2018**

Rubab Malik      Dept Biology, UT-Dallas  
Kelsey Lyle      Dept Biology, UT-Dallas  
Valeria Crespo-Ritchie Dept Plant Pathology TAMU

### **E. Visiting Scholars**

Wing Sham Lee      Cambridge University Scholar, 2008 Cambridge University UK  
Maria Binaghi      Wood Whelan Fellowship, 2009 University of Buenos Aires  
Rhadhayelaksmi    American Society Microbiology Fellow 2012  
Alexis Vela Arias    Student visiting from Ecuador  
Maria Cris Varanda   Faculty UPAEP  
Liz Pena            Visiting from Ecuador for 6 months  
Abdolbaset Azizi    Visiting from Iran for 6 months  
Evelyn Vasquez      visiting from ESPE for 6 months  
Juan Fernando Diaz Salazar visiting from ESPE for 6 months

### ***SUBMITTED RESEARCH PROPOSALS FOR FUNDING IN 2018-2019 ( PENDING OR DECLINED)***

1. Verchot J (Sept 2019-2020) Rapid RRV resistance evaluation using mechanical inoculation and infectious clone technology. \$81,449. STAR Roses
2. Byrne et al (Sept 2019-2022) National Clean Plant Network-Roses. \$2 million (my portion is \$150,000).
3. Verchot J, and Pang M. Jan 2019-Dec 2019. Developing accurate and consistent resistance screening system for cotton blue disease, a rising concern in the US cotton production. Cotton INC: \$100,000.
4. Verchot J, Ayre B, Simon A, Tamborindeguy, C, Shah J, Ragsdale D, Yu Q, Xiong L, and Mandadi K (July2017-Jun2021) Alliance with viruses and aphid vectors to rapidly deliver crop-saving traits in times of seasonal emergencies. DAPRA Award: \$9,684,170 and Award to Agrilife was \$1,936,834. **Declined**
5. Verchot J, Allen R, Shan, L, Xiong L, and Yu Q (2018-2022) Preproposal DARPA: Rapid delivery of crop-saving traits by disarmed viral vectors in times of seasonal emergencies. Award \$1,808,000. **Declined**

### ***CURRENT FUNDED RESEARCH PROJECTS***

#### **A. Active Support for 2017-2019 (Total: \$661,242)**

1. British Society of Plant Pathology Conference organizing Award: £4000.
2. Byrne, D. and Verchot J. Dec 2018-2019. Preparation of infectious clone of rose rosette disease. Rose Society \$15,000
3. Verchot J., and Miller R. May 2018-2022. Investigating how the cellular ER stress machinery regulates plant virus infection. \$591,242
4. Orquera-Tornakian and Verchot J (2018) Editing the Bax Inhibitor 1 (BI-1) gene in potato. AgriLife Vegetable Seed Grant Award. \$25,000

#### **B. Previous awards that have expired from 1998-2018. Total since 1998: \$6,591,522 List from last 10 years:**

USDA-NIFA: Targeting the unfolded protein response for reducing virus infection in potato. Dec 2013-June 2018. Award: \$328,674.

Byrne, D. and Verchot J. Dec 2017-2018. Preparation of infectious clone of rose rosette disease. Rose Society \$30,000

OCAST AR11.2-050: Production of Certified Virus-free Canna Lily Rhizomes via Micropropagation: August 2011- July 2013. Award: **\$85, 978**.

USDA-SBIR, Horn Canna Farms and Verchot, J. April 2014-March 2015. Award: \$99640. The goal is to use our resources at OSU to provide virus-free cannas to Horn Farms and VF Canna LLC, as an Oklahoma solution for Oklahoma production. This program will have the immediate impact of expanding production and jobs as a benefit of rhizome production by our lab, focusing on the most commercially viable varieties, that are most sought after by consumers.

ODAFF Specialty Crop Research Grant. Jan 2012- Dec 2013. Production of Clean Canna Lily Rhizomes and Container Plants Award: \$52, 470. This program has two goals. First, develop clean planting stocks of varieties that are severely infected with CaYSV and CaYMV and likely to be discontinued. Second, develop anti-viral compounds that are effective for eliminating viruses in the ornamental industry.

OKSG EPSCOR Travel Grant: \$4,000 to take students to NASA, set up project and internships  
TDBP: Production of Certified Virus-free Canna Lily Rhizomes via Micropropagation Total **Award: \$30,000**.

NSF Advance Grant 0930126. Forward to Professorship OSU Workshop. Jean Vandelinder, Shiping Ding, Jeanmarie Verchot. **Budget: \$10,000**.

OCAST. PSB09-028. Vascular Transport of Proteins and nanoparticles. April 2009-March 2011. Jeanmarie Verchot, Rheal Towner **Total Award: \$80,682**

OCAST. ONAP08-018. Nanoparticle delivery of small RNAs to plants. Jeanmarie Verchot, Dr. R. Ramachandran at Nomadics. July 2008 -2010. **Total Award: \$130,000**.

Facility Renovation and/or Facility Development. Replace High Speed Centrifuges in the Noble Research Center. Jeanmarie Verchot-Lubicz. Duration: November 2007-October 2008. Total Award: **\$179,000**.

NSF-EPSCOR Infrastructure Improvement. Virus Biodiversity and Ecology. U. Melcher, M. Roosnick, R. Nelson, K. Scheets, A. Zlotnick, M. Palmer, B. Roe. Jeanmarie Verchot-Lubicz, J. Wren. Duration: Jan 2005-Dec 2008. Plant Total Award: **\$2 million**

NSF. Requirements for intercellular and vascular transport of Potato virus X. Duration: 3 years. June 2004-May 2007. Amount: **\$420,000**.

USDA-NRI. Defense responses to viral pathogens. Collaboration with Dr. John Carr at Cambridge University. Amount: **\$125,000**. Duration: Aug 2007- 08

NSF-DBI Major Research Instrumentation. Acquisition of a transmission electron microscope to enhance teaching and research in materials and biological sciences at Oklahoma State University. Charlotte Ownby, Allen Apblett, Bret Flanders, Warren Ford, Jeanmarie Verchot-Lubicz. Duration: July 1, 2005-June 30<sup>th</sup> 2006. Total Award: **\$740,598**.

#### **List of some recent collaborations:**

Martin Dickman, Director of the Borlaug Genome Center at TAMU

Aiming Wang at University of Guelph



Mark Payton, Head, Dept Statistics at OSU  
David Byrne, Dept Horticulture TAMU  
Rita Miller, Oklahoma State University

**Past Collaborators:**

Horn Canna Farms.	
John Carr	Cambridge University, UK
Raymond Goldstein	Cambridge University, UK
Bogdan Dragnea	University of Indiana
Adam Zlotnick	University of Indiana
Anton Sanderfoot	University of Minnesota
Marty Dickman	Texas A&M University
Elison Blancaflor	Noble Foundation
Mark Payton	Dept Statistics, OSU
Rheal Towner	Oklahoma Medical Research Foundation
Andrew Jackson	U.C. Berkeley
Biao Ding	Ohio State University
Richard S. Nelson	Noble Foundation
Gerald Schoenknecht	Dept Botany at OSU
Ulrich Melcher	Dept Biochemistry, OSU
Robert Hunger	Dept Entomology and Plant Pathology, OSU
Larry Littlefield	Dept Entomology and Plant Pathology, OSU
Brett Carver	Plant and Soil Sciences, OSU
Charlie Rush	Texas A&M University

**REFERRED JOURNAL ARTICLES (64 REFEREED ARTICLES, 16 BOOK CHAPTERS, 10 OTHER PUBLICATIONS)**

1. Aranda, MA, Makinen, K, and Verchot J (2019). Introduction to Special Issue of Molecular Plant Pathology: Extracellular and intracellular perception of plant viruses, *Molecular Plant Pathology*. DOI: 10.1111/mpp.12842
2. Wijayasekara, D, Hoyt, P., Thapa, A, and Verchot, J (2018). Combining Analysis of DNA in a Crude Virion Extraction with the Analysis of RNA from Infected Leaves to Discover New Virus Genomes. <http://www.jove.com/video/57855>.
3. Wijayasekara, D, Hoyt, P., Gimondo, A, Dunn, B, Thapa, A, Jones, H, and Verchot, J (2018). Molecular characterization of two badnavirus genomes associated with Canna yellow mottle disease. *Virus Research* 243, 19-24.
4. Gaguancela, OA, Zuniga, LP, Arias, AV, Halterman, D, Flores, FJ, Johansen, IE, Wang, A, Yamaji Y, and Verchot J (2016). The IRE1/bZIP60 pathway and bax inhibitor 1 suppress systemic accumulation of potyviruses and potexviruses in Arabidopsis and Nicotiana benthamiana plants. *Molec Plant Microbe Interact.* 29: 750-766.
5. Verchot J (2016) Plant virus infection and the ubiquitin proteasome machinery: Arms race along the endoplasmic reticulum. *Viruses*, 8(11), 314; doi:[10.3390/v8110314](https://doi.org/10.3390/v8110314)
6. Verchot, J. (2016) How does the stressed-out ER find relief during virus infection? *Current Opinion in Virology* 17: 74-79.
7. Zhang, L, Chen H, Brandizzi, F, Verchot J, Wang A (2015). The UPR branch IRE1-bZIP60 in plants plays an essential role in viral infection and is complementary to the only UPR pathway in yeast. *PLoS Genet.* 2015 11(4):e1005164. doi: 10.1371/journal.pgen.1005164.
8. Chauhan RP, Rajakaruna, P, and Verchot J (2015). Complete genome sequence of nine isolates of canna yellow streak virus reveals its relationship to the sugarcane mosaic virus (SCMV) subgroup of potyviruses. *Archives of Virol.* 160: 837-844.

9. Chauhan R, Hamon HF, Rajakaruna P, Webb MA, Payton M, Verchot J (2015). Reliable detection for Bean yellow mosaic virus, canna yellow streak virus and canna yellow mottle virus in canna varieties with red foliage. *Plant Disease* Vol 99 p188-194.
10. Verchot, J. (2014) The ER quality control and ER associated degradation machineries are vital for viral pathogenesis. *Frontiers in Plant Biology* Vol 5 p 66-71 10.3389/fpls.2014.00066.
11. Brett Williams, Jeanmarie Verchot and Marty Dickman (2014) When Supply Does Not Meet Demand-ER Stress and Plant Programmed Cell Death. *Frontiers in Plant Biology* Vol 5: 211-216 10.3389/fpls.2014.0021.
12. Rajakaruna, P., Shafiekhani, M., Kim, T., Payton, M., Chauhan R., Verchot, J (2013) Production of discernible disease phenotypes in Canna by five plant viruses belonging to the genera Potyvirus, Cucumovirus, and badnavirus. *Plant Pathology*, DOI: 10.1111/ppa.12169.
13. Ye, CM, Chen, S., Payton, M., Dickman MB, and Verchot J (2013). TGBp3 triggers the unfolded protein response and SKP1 dependent programmed cell death. *Molecular Plant Pathology*, Apr;14(3):241-55. doi: 10.1111/mpp.12000.
14. Verchot, J (2012) Cellular chaperones and folding enzymes are vital contributors to membrane bound replication and movement complexes during plant RNA virus infection. *Front. Plant Sci.* 3:275 doi:10.3389/fpls.2012.00275
15. Ye, CM, Chen, S., Payton, M., Dickman MB, and Verchot J (2012). TGBp3 triggers the unfolded protein response and SKP1 dependent programmed cell death. *Molecular Plant Pathology*, *Molecular Plant Pathology*, Apr;14(3):241-55. doi: 10.1111/mpp.12000
16. Ye, CM, Kelly V, Dickman, MB, and Verchot, J (2012). SGT1 is induced by Potato virus X TGBp3 and enhances virus accumulation in *Nicotiana benthamiana* plants. *Molecular Plant*. Vol 5 p1151-1153.
17. Niu, C., Anstead, J, Verchot, J. (2012) Analysis of protein transport in the Brassica Oleracea vasculature reveals different destinations. *Plant Signaling & Behavior*: 361-374.
18. Verchot, J (2011). Wrapping membranes around plant virus infection. *Current Opinion in Virology*, vol 1: 388-395.
19. Verchot, J, Ye, CM (2011). Role of unfolded protein response in plant virus infection. *Plant Signaling & Behavior*, vol 6:8, 1-4.
20. Halterman, D, Charkowski, A, and Verchot, J (2011). Potato, viruses, and seed certification in the USA to provide healthy propagated tubers. 7<sup>th</sup> Special Issue of *Potato in Pest Technology* vol 6 (special Issue 1): 1-14 (Print ISSN 1749-4818).
21. Ye, CM, Chen, S, Dickman, MB, Whitham, S., Payton, M, and Verchot, J (2011). The unfolded protein response is triggered by a plant viral movement protein. *Plant Physiol*, 156: 741-755.
22. Lee, WS, Fu, SF, Verchot-Lubicz, J, and Carr, JP (2011). Genetic modification of alternative respiration affects induced and basal resistance to potato virus X. *BMC Plant Biology*. 11: 41.
23. Huang, X., Stein, BD, Cheng, H, Malyutin, A, Tsvetkova, IB, Baxter, DV, Remmes, NB, Verchot, J., Kao, C., Bronstein, LM, and Dragnea, B. (2011). Magnetic virus-like nanoparticles in *N. benthamiana* plants: A new paradigm for environmental and agronomic biotechnological research. *ACS Nano*, 5: 3401-4244.
24. Niu, C., Smith, N., Garteiser, P, Towner, R., Verchot, J. (2011) Comparative analysis of protein transport in the *N. benthamiana* vasculature reveals different destinations. *Plant Signaling & Behavior* 6: 1-16
25. Silva, AT, Nguyen, A, Verchot, J, and Moon, J (2010). Conjugated polymer nanoparticles for effective siRNA delivery to tobacco BY-2 protoplasts. *BMC Plant Biology* 10: 291-305.
26. Verchot-Lubicz, J, Torrance, L, Solovyev, A G, Morozov, SY, Jackson, AO, Gilmer, D. (2010). Varied movement strategies employed by triple gene block encoding viruses. *Molec. Plant Microbe-Interact.* 23 (10): 1231-1247.
27. Verchot-Lubicz, J, and Goldstein, RE (2010) Cytoplasmic streaming and its impact on intercellular symplastic transport. *Protoplasma*, 240: 99-107.

28. Bamunusinghe, D, Hemenway, C, Nelson, R, Sanderfoot, A, Ye, CM, Silva, A, and Verchot-Lubicz, J (2009). Potato virus X replicase and TGBp3 co-localize along endoplasmic reticulum derived structures. *Virology*, 393 (2): 272-285.
29. Verchot-Lubicz, J (2008). Plasmodesmata transport of GFP and GFP fusions requires little energy and transitions during leaf expansion. *Plant Signaling & Behavior* 3(10): 1-4.
30. Melcher, U, Muthukumar, V, Wiley, GB, Min, B.-E., Palmer, M, Verchot-Lubicz, J, Nelson, RS, Roe, BS, Thapa, V, Pierce, ML, (2008). Evidence for novel viruses by analysis of nucleic acids in virus-like particle fractions from *Ambrosia psilostachya*. *J. Virol Methods*. 2008 Sep; 152(1-2):49-55.
31. Mekuria, T, Bamunusinghe, D, Payton, M, Jeanmarie Verchot-Lubicz (2008). Phloem unloading of Potato virus X movement proteins is regulated by virus and host factors. *Molec. Plant Microbe Interact*. 21(8):1106-17.
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#### **ABSTRACTS AND PROCEEDINGS**

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6. Annual Wheat Newsletter 1999 and 2000 contains articles by the Wheat Improvement team. 1999, 2000 articles submitted by R. M. Hunger and **J. Verchot** concerning research on BYDV and WSBMV.

### **Patent Disclosures**

Provisional DKT No 69990/09-243 Method of Gene suppression based on PVX TGBp2 and TGBp3.  
TTC Ref. & Title: 5158AGLR19- Rose Rosette Infectious cDNA Increases Plant Growth and Seed Yields. Jeanmarie Verchot , Mingxiong (David) Pang . Agrilife Research Startup funds

### **CULTIVAR RELEASES**

2004. 'Endurance' hard red winter wheat.

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2002. 'Ok102' hard red winter wheat

2001. 'Ok101' hard red winter wheat.

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OCAST "Innovations" published an interview with me on the topic of biotechnology 2000

Cowboy journal, OSU publication featuring research at OSU, 2005.

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