

## VAN-DEN TRUONG

USDA Professor Emeritus, FBNS, NCSU, Raleigh, NC, *E-mail:* [den\\_truong@ncsu.edu](mailto:den_truong@ncsu.edu)

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**Brief Bio:** Dr. Van-Den Truong was a Research Leader, USDA-ARS Food Science Research Unit and USDA Professor, Department of Food, Bioprocessing and Nutrition Sciences, North Carolina State University (NCSU). He served for 38 years as a researcher, teacher, consultant for food industry and international organizations, with 26 years at NCSU. Dr. Truong has authored or co-authored 263 publications and abstracts/presentations with students and colleagues in food science, engineering, nutrition, plant breeding. He was inventor/co-inventor of 3 US and 8 foreign patents. He led the sweetpotato research programs encompassing food science and plant science as an integrated approach to improving nutritional values and processing technologies with a goal of increasing the utilization of this highly nutritious vegetable. Dr. Truong worked closely with the sweetpotato industry to identify relevant research areas and transfer the developed technologies for commercial developments. One of the significant achievements was the transfer to commercialization of microwave-assisted processing technology for aseptic sweetpotato purees to a North Carolina start-up company, Yamco LLC. This plant was the first in the world to use a continuous flow microwave sterilization system for shelf-stable, low acid foods. The Institute of Food Technologists and USDA-ARS recognized the team accomplishment with the 2009 Food Technology Industrial Achievement Award and 2009 Technology Transfer Award. Dr. Truong also received the 2018 National Research Impact Award by the National Sweetpotato Collaborators Group (a subset of the American Society of Horticultural Science), in recognition of exceptional achievement and outstanding contributions to the sweetpotato industry.

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### **a. Professional Preparation**

**B. S.** (1973) Food Technology, National Institute of Agriculture, Saigon, Vietnam  
**M. S.** (1976) Food Science, University of the Philippines at Los Banos  
**Ph. D.** (1980) Food Science, University of the Philippines at Los Banos  
**Postdoc.** (1993-1997) Food Science, North Carolina State University

### **b. Appointments**

01/2019-present USDA Professor Emeritus, Department of Food, Bioprocessing & Nutrition Sciences, North Carolina State University, Raleigh, NC  
2003-2018 Research Leader (2011-2018, retired in January 2019), Research Food Technologist (2003-2011), USDA-Agricultural Research Service (USDA-ARS), Food Science Research Unit, Raleigh, NC  
2003-2018 USDA Professor (2010-2018), Associate Professor (2007-2010), Assistant Professor (2003-2007), Department of Food, Bioprocessing & Nutrition Sciences, NC State University, Raleigh, NC  
2001-2003 Research Assistant Professor, Department of Food Science, NC State University, Raleigh, NC  
1997-2001 Research Engineer and Manager, Food Rheology Laboratory, Department of Food Science, NC State University, Raleigh, NC  
1992-1997 Visiting Scientist and Postdoctoral Research Associate, USDA-ARS, Department of Food Science, NC State University, Raleigh, NC

- 1983-1992 Head, Food Science Section (1983-1992), Associate Professor (1987-1992) and Assistant Professor (1983-1987), Department of Agricultural Chemistry and Food Science, Visayas State College of Agriculture, Leyte, Philippines
- 1981-1983 Senior Science Research Specialist, National Institutes of Biotechnology and Applied Microbiology, Los Banos, Philippines
- 1980-1981 Postdoctoral Research Associate, Biochemistry Laboratory, Institute of Plant Breeding, University of the Philippines, Los Banos

### **c. Professional Scholarly Activities**

Research efforts have resulted in 113 publications, 3 United States and 8 foreign patents, and 150 presentations with undergraduate, graduate students and colleagues at scientific and industrial meetings.

[https://scholar.google.com/citations?view\\_op=list\\_works&hl=en&user=MAv-AoQAAAAJ](https://scholar.google.com/citations?view_op=list_works&hl=en&user=MAv-AoQAAAAJ)

Volunteer Consultant, USAID funded program entitled Farmer-to-Farmer, Catholic Relief Service, Timor Leste (Pacific Islands Region), provided technical assistance to local volunteers for training farmers groups on processing of root crops for value-added products, January 11- February 04, 2022.

Consultant/Advisor, NC Small Business Enterprises on processing of root crops for jam/jellies and fried products, 2022-2024.

Organized the Expert Convening on “New Roots, New Foods: Sweetpotato Processing Opportunities in Africa”, and had a presentation on “Innovations in sweetpotato processing in the United States”, sponsored by USAID, International Potato Center, USDA-ARS and NC State University, Raleigh, NC, June 30, 2017. Further developments lead to the implementation of project on innovations to boost production of shelf-stable and nutritious sweetpotato products in Kenya, 2019-2022.

Participated in development of the Bill & Melinda Gates Foundation funded research entitled “Breeding root-tuber-banana products for end user preferences in Africa” (RTBfoods project), collaborative research program among the international research institutes, CIP, CIAT, CIRAD, and USDA-ARS, 2017-2022.

Leadership Team Member, IFT Fruit & Vegetable Products Division, 2016-2017 and Food Chemistry Division, 2016-2018. Judge for the Graduate Research Poster Competition, Food Chemistry, IFT 2006 and 2007. Juror, IFT Annual Awards, Carl R. Fellers Award Jury, 2014-2017.

Member, Advisory Committee, International Conference on Food Properties, Kuala Lumpur, Malaysia, Jan. 24-26, 2014. Member, Scientific Committee, 8<sup>th</sup> International CIGR Technical Symposium on Advanced Food Processing and Quality Management, Guangzhou, China, November 3-7, 2013.

Technical Consultation on sweetpotatoes for extruded snacks. General Mills, Minneapolis, Minnesota, October 24, 2013.

Organized a Research Reporting and Brainstorming Meetings for Pickle Companies, co-sponsored by Pickle Packers International and ARS-Food Science Research Unit, Raleigh, January 17-18, 2012.

Hosted a technical meeting on sweetpotato chemistry, postharvest handling, and French fry quality, co-sponsored by USDA-ARS-Food science Research Unit, Department of Horticultural Science and NC Sweetpotato Commission, for participants from: 1) Frito Lay-North America, May 14-15, 2009, 2) JR Simplot Co., July 13, 2010, and 3) Con Agra Foods, March 30, 2012.

Reviewer for 18 peer-reviewed journals on food science and technology, horticultural science, industrial crops and products, and bioresource technology, 2000-present.

Committee Chair, Postharvest, Nutrition & Marketing, Annual Meetings, National Sweetpotato Collaborators Group, 2007-2009.

Invited lecturer in the Acidified Foods GMP School for approximately 30 people/year who supervise commercial processing of acidified foods. 2003-2015.

Provided technical consultations to the Bright Harvest Sweetpotato Co. (Arkansas), June 16-20, 2003, to conduct pilot testing for commercialization of frozen sweetpotato casseroles.

Provided technical support on rheological measurements and textural analysis on various food products for various food companies (Hershey Chocolate Co., Philadelphia, ATS Rheosystems, New Jersey, Kraft Foods Corp., Chicago), 1998-2000.

Head, Food Science and Technology Section, Department of Agricultural Chemistry and Food Science, Visayas State University, Philippines, 1983-92. The Food Science & Technology Program was then developed into the Dept. of Food Science in 1997, and MS degree program was offered since 2002.

Team member in Philippine-Japan Project entitled "Post-harvest Biochemistry of Tropical Food Materials" and conducted research on root crop starch characterization in collaboration with Dr. Tomonori Nagahama, Kagoshima University, Japan, 1989-1992. Invited presentations on "New developments in processing sweetpotatoes for food" at Department of Agricultural Chemistry, Kagoshima University, Nagoya University, Tokyo University, and various sweetpotato processing factories in Kagoshima and Kawagoe, Japan, November. 1989.

Leader of an R & D team composed of Food Technologists, Engineers and Socio-Economists to undertake interdisciplinary research projects on root crop processing, funded by the International Potato Center (CIP), 1989-1992, and served as team member in an Integrated Program on Breeding, Production and Utilization of Root Crops supported by the Canadian International Development Research Center (IDRC), 1989-1992.

Co-Chair, Organizing Committee, International Workshop on Cassava and Sweetpotato Processing and Marketing, funded by the International Potato Center (CIP) and Centro Internacional de Agricultura Tropical (CIAT), Visayas State University, Leyte, Philippines, 1991.

Consultant, San Miguel Corporation, Manila, Philippines, to transfer the developed sweetpotato beverage for pilot scale production and market testing, 1991-1992.

Consultant for FAO and IDRC for project development missions in the Philippines and Vietnam to develop Root Crop R & D Programs, 1989, 1990, and Experts Meeting on Development of a Source Book on Processing and Marketing of Roots and Tubers, International Potato Center (CIP)-United Nations Development Programs (UNDP), Bangkok, Thailand, Nov. 1988.

## Teaching & Student Mentoring

Developed and taught a graduate course on Food Carbohydrates: chemistry, physical properties and applications, North Carolina State University, Spring 2002, and undergraduate courses on food chemistry, food analysis, food processing, food science capstone course, Visayas State University, 1986-1992.

Guest lecturer on starch analysis (2001-2011), food texture and measurements (1998-2001), carbohydrate chemistry (2003-2005) in several food science courses (food analysis, food quality, food chemistry) and sweetpotato production/utilization in a course on world population and food prospects, NC State Science, Technology & Society Program (2009-2011).

Advised 12 M.S. students, 5 Ph. D. students, 1 visiting Ph.D. student from the University of Ghana, Africa, hosted 3 visiting scientists. Provided lab training/research mentoring for 20 undergraduate students majoring in food science, food chemistry and biochemistry. Served as member of advisory committee for 14 Ph.D. and 21 M.S. students in the Food Science and Nutrition Programs, NCSU, 2001-2019.

*Graduate Students, NC State University (Degree, Chair/Co-Chair, Program, Student Names, Years):*

### *Doctorates:*

Chair/Co-chair (5):

Sarah Chilungo, Food Science, 2015- 2019

Laurie Steed, Food Science, 2007- 2010

Victor Amankwaah, Plant Breeding-Genetics, 2016-2019

Xiao (Carrie) Qiu, Food Sci., 2015- 2019

Prabhat Kumar, Food Science, 2007 – 2009

Committee member (14):

Ana Zuleta Correa, Bio & Agric. Eng., 2016-2018

Michael Lloyd, Food Science, 2012-2016

Sofia Feng, Food Sci.&Nutrition, 2015-2018

Xiaomeng (Echo) Li, Food Sci., 2011-2014

Joscelin Diaz, Bio & Agric. Eng., 2010-2013  
Steven Todd, Plant Breeding-Genetics, 2008-2013  
Katie Patterson, Nutrition, 2008- 2011  
Montreka Dansby, Food Science, 2004 – 2007  
Junhua Zhang, Food Science, 2002-2005

Wanida Lewis, Food Science, 2009-2012  
Chellani Harthorn, Food Sci., 2009 – 2012  
Christina Stam, Food Science, 2006–2008  
Greg Gharst, Food Science, 2004-2007  
Lisa Barrangou, Food Science, 2001-2004

*Masters:*

Chair/Co-chair (12):

Morgan Caudill, Food Science, 2016-2017  
Nivedita Sudharsan, 2015-2016 (non-thesis)  
Yvette Pascua, Food Science, 2009-2011  
Christine Yen, Food Science, 2008-2010  
Laurie Steed, Food Science, 2005-2007  
Choong Teow, Food Science, 2003-2005

Ai Sato, Food Science, 2014-2016  
E. Nshimiyimana, Food Science, 2009-2011  
Craig Koskiniemi, Food Science, 2008-2010  
Gloria Botwe, FoodSci.,2009-2010 (non-thesis)  
Tiffany Brinley, Food Science, 2004-2006  
Julie Grabowski, Food Science, 2003-2005

Committee member (21):

Angelina Schiano, Food Science, 2017-2018  
Mitchell Schumann, Hort. Science, 2013-2015  
William Leatherwood, Animal Sci., 2012- 2014  
Sun Wen, Nutrition, 2010-2012  
Norimah Jumat, Hort. Science, 2010-2011  
Yvette Thibault, Food Science, 2009-11  
Nicole Hill, Bio & Agric. Eng., 2008-2010  
Alexis Corbitt, Nutrition, 2006-2007  
Joy Simpson, Food Science, 2004-2006  
Melissa Flunke, Food Science, 2003-2005

Hannah Strasser, Food Science, 2016-2017  
Sofia Feng, Nutrition, 2012-2015  
Rini Basyamfar, Nutrition, 2012-2014  
Magaret Schneider, Food Science,2010-2012  
Lisa Moller, Food Science, 2009-2011  
Thomas Fuller, Food Science, 2009-2011  
Katie Patterson, Nutrition, 2007-2008  
Tiffany Peters, Nutrition, 2006-2007  
Rashmi Muruvada, Food Science, 2003-2005  
Rodney Green, Food Science, 2003-2004

Katherine Cleary, Food Science, 2003-2004

#### **d. Honors and Awards**

- 2018 National Research Impact Award, in recognition of exceptional achievement and outstanding contributions to the Sweetpotato Industry, National Sweetpotato Collaborators Group (a subset of the American Society of Horticultural Science), Annual Meeting, Wilmington, NC, January 19-21, 2018.
- 2010 Achievement Recognition on Significant Contribution to the Sweetpotato Industry, National Sweetpotato Collaborators Group, Annual Meeting, Orlando, Florida, February 6-7, 2010.
- 2009 IFT Food Technology Industrial Achievement Award for development and commercialization of a process for continuous flow microwave sterilization and aseptic packaging of low acid foods. Awarded by the Institute of Food Technologists (IFT), Annual Meeting & Food Expo, Anaheim, California, June 6-10, 2009.
- 2009 USDA-ARS Superior Efforts in Technology Transfer Award for transferring a novel microwave heating process for producing large containers of aseptic shelf-stable vegetable and fruit purees, USDA-ARS, Beltsville, MD.
- 2009 USDA-ARS-South Atlantic Area Technology Transfer Award for development and transfer of technology on processing and aseptic packaging of fruit and vegetable purees, Athens, Georgia, 2009.
- Best Paper Award for the paper on rheological and sensory properties of reduced-fat cheeses, co-authored with M. A. Drake and C. R. Daubert. Given by the American Oil Chemists' Society, 91st Annual Meeting, San Diego, California, April 25-28, 2000.
- Donald L. Plucknett Best Paper Award in Root Crop R&D, the Eighth Symposium of the International Society for Tropical Root Crops, Bangkok, Thailand, October 31-November 5, 1988.
- Outstanding Research Award (Food and Feed Category), National Technology Week Awards, Philippine Department of Science and Technology, Manila, July 12, 1991.

Awarded travel grants by the International Research Development Centre (IDRC, Canada) for study missions to a) the Centro Internacional de Agricultura Tropical (CIAT) and the IDRC-funded projects on cassava processing and agro-industrial development in Colombia, 1990; b) University of Guelph, University of Manitoba and University of Saskatchewan, Canada, to visit the Departments of Food Science, Engineering and Biotechnology, 1991.

Philippine Department of Agriculture, G. S. Khush Distinction Award given to the Food Technology Section, VISCA, (which the incumbent spearheaded) for technology development and transfer, 1990.

Achievement Award for Research, given by the Crop Science Society of the Philippines, 5th Annual Scientific Conference, Iloilo City, Philippines, April 26-29, 1989.

### **Professional Societies**

Institute of Food Technologists (IFT), Professional Member, 1989-2018; Emeritus Member, 2019-present

Phi Tau Sigma Honor Society of Food Science and Technology, 2001-present

President, Phi Tau Sigma – North Carolina State University Chapter, 2014

American Association of Cereal Chemists, 2001-2003

American Chemical Society, 2004-2018; Emeritus Member, 2019-present

### **e. Collaborators & Grants**

Yencho GC, Pecota K, Schultheis J, **Truong, VD**. “Development and evaluation of sweetpotato varieties for improved chip processing”, research grant from Pepsico Inc., 2016-2020, \$1,227,739/ARS \$251,908.

Allen J, Simunovic J and **Truong, VD**. “Sweetpotato chip processing technologies and nutrition values” funded by the North Carolina Agricultural Foundation, 2018-2020, \$67,234.

**Truong VD**. “Extraction and characterization of food proteins from sweetpotato leaves”, a part of research grant from USDA-Small Business Innovation Research Program (Phase I) to LeafPro LLC, Wilson, NC, for the company’s project entitled “Leaf Rubisco and Whole Leaf Proteins as Functional Ingredients in Foods” 2018-2019, \$13,600.

Yencho GC, Pecota K, Schultheis J, **Truong VD**. “Development and evaluation of sweetpotato varieties for improved chip processing”, research grant from Pepsico Inc., 2016-2020, \$1,227,739/ARS \$251,908.

Allen J and **Truong VD**. “Glycemic responses to sweet potato products (fries, chips, and flours).” North Carolina Sweet Potato Commission. 5/1/2016-4/30/2017. \$49,420. (extended for year 2 – 3/1/17 to 2/28/18, \$49,375).

Yencho GC, Pecota KV, **Truong VD**. “Variety development and postharvest research to improve processing quality of sweetpotato frozen products”, research grant from ConAgra Foods Inc., 2007-2015, \$270,000/ARS \$70,200; 2016-2018, \$120,000/ARS \$31,598.

Yencho GC, Pecota K, Schultheis J, **Truong VD**. “Rapid development and commercialization of sweetpotato varieties for food processing”, research grant from McCain Foods, 2013-2018, \$1,402,278/ARS \$177,056.

Allen J and **Truong VD**. Grant for Ph.D. student research and fellowship in Food Science (carotene in sweetpotatoes) at NC State University, Borlaug Higher Education for Agricultural Research and Development (BHEARD), USAID-Malawi, Africa, 8/2014-8/2018. \$128,412.

Lila MA, Yencho GC, **Truong VD**. “Validation of health-relevant traits from sweetpotatoes and versatile new sweetpotato functional food ingredients”, funded by North Carolina Sweetpotato Commission, 2012-2014, \$15,000.

Paul C. Bethke, USDA-ARS Madison, WI, Yencho GC, **Truong VD**. “Improved breeding and variety evaluation methods to reduce acrylamide content and increase quality in processed potato products”, research grant from USDA-Specialty Crop Research Initiative, 2011-2015, \$3,941,259, NCSU/ARS Raleigh \$194,116/\$62,500.

Allen J and **Truong VD**. “Fortification of sweet potato flour.”, research grant from NCDA/USDA Specialty Crop Block Grant Program, 1/1/2013-12/30/2014. \$78,000.

Allen J and **Truong VD**. “Sweet Potato Cultivar Affects Glycemic Index.” research grant from North Carolina Sweetpotato Commission, 3/1/2011-2/28/2013, \$34,515.

Yencho GC, Pecota KV, **Truong VD**. “Development and commercialization of purple sweetpotatoes for natural colorant market, research grant from a botanical extraction company, Avoca Inc., on 2011-2014, \$347,162/ARS \$65,441.

Schultheis J, **Truong VD**, Yencho GC, Boyette M. “Development of sweet potato technologies for the food processing industry in removing impediments to create value-added processing”, funded by the Golden LEAF Foundation, Inc., North Carolina to \$405,000/ARS \$192,489, 2008-2011.

Allen J and **Truong VD**. “Isolation of sweet potato components that reduce glycemic response”. NC Sweet Potato Commission \$25,000, 3/1/2008-2/28/2010.

**Truong VD**, Yencho GC “Evaluation of biochemical changes in sweetpotatoes during long-term storage as related to fried-chip quality”, research grant with Frito Lay North America, Inc., 2007-2010, \$170,265.

Allen J, **Truong VD**. “Identification and stability of sweetpotato components that lower blood sugar”, research grant with North Carolina Agricultural Foundation, Inc., 2006-2008, \$39,694.

Simunovic, J. **Truong VD** and Swartzel, K. “Development of a Process for Continuous Flow Thermal Sterilization of Value-Added Purple and Yellow Sweetpotato Cubes, funded by North Carolina Agricultural Foundation, Inc., 2006-2009, \$54,000.

Allen, J., **Truong, VD**. and Butt, M. “Role of Sweetpotato in Lowering Blood Sugars”, funded by North Carolina Sweetpotato Commission, Inc., 2005-2006, \$9,880; extended to 2007, \$11,820 additional fund.

Sosinski, B., Yencho, G. C. and **Truong, VD**. “Development of Adapted High Anthocyanin Sweetpotatoes for North Carolina”, funded by the Golden LEAF Foundation, Inc., 2004-2005, \$125,000.

**Truong, VD**, Simunovic, J. and Daubert, C. R. Spray-dried Sweetpotato Powders: Drying Conditions and Product Functionalities, research grant with North Carolina Agricultural Foundation, Inc., 2004-2005, \$42,000.

**Truong, VD**. “Technical Feasibility of Processing of Sweetpotato Powders by Spray-Drying”, research grant with North Carolina Sweetpotato Commission, Inc., 2003-2004, \$10,800.

**Truong, VD**. and Simunovic, J. “Sweetpotato Puree: Continuous Thermal Treatment and Packaging in Flexible Packages”, research grant with North Carolina Sweetpotato Commission, 2002-2003, \$9,800.

Hassen, A., Simunovic, J. and **Truong, VD**. “Microwave Heating for Shelf-life Extension of Whipping Cream, Sour Cream and Cottage Cheese”, research grant with North Carolina Agricultural Foundation, Inc., 2002-2004, \$37,000.

Daubert, C. R. and **Truong, VD**. “Development of Instrumental Methods for Textural Characterization of Cheeses, research grant with Kraft Foods Company, 2000-2001, \$15,000.

## **USDA-ARS Projects**

Lead Scientist, USDA-CRIS project entitled “Preservation and Utilization of Vegetables to Produce Safe, High-Quality Products and Reduce Waste (**Truong, V. D.**, Breidt, F. Johanningsmeier, J. D. and Perez-Diaz, I.), In-house Appropriated, 2015-2019.

Co-PI on USDA-Small Business Innovation Research Program (SBIR) funded project entitled “Sweetpotato Leaf rubisco and whole leaf proteins as functional ingredients in foods.” LeafPro LLC, Wilson, NC, 6/2018-2/2019, \$100,000. (ARS-CRADA: \$13,600 for a study on extraction and characterization of food proteins from sweetpotato leaves), 2018-2019.

Lead Scientist, (2011-2015), Co-PI (2009-2011), USDA-CRIS project entitled “Improved Processes for the Preservation and Utilization of Vegetables, Including Cucumber, Sweetpotato, Cabbage, and Peppers to Produce Safe, High-Quality Products with Reduced Energy Use and Waste (McFeeters, R. F., **Truong, V. D.**, Breidt, F. Johanningsmeier, J. D. and Perez-Diaz, I.), In-house Appropriated, 2010-2015.

Co-PI on USDA-CRIS project entitled “Improved Processes for Cucumbers, Cabbage, Sweetpotatoes, and Peppers to Make High-Quality, Nutritious, Safe Products and Reduce Pollution” (McFeeters, R. F.,

Breidt, F. and **Truong, V.D.**). Wrote the project components on sweetpotatoes (processing technologies and phytochemicals) for this CRIS project. The proposal received a perfect score during the review by the USDA Office of Scientific Quality Review for implementation, In-house Appropriated, 2004-2009. Collaborator on 1890 Capacity Building Grants Program, USDA-Cooperative State Research, Education and Extension Service to develop Multi-Institutional Laboratory Partnership for Food Engineering Teaching, Training, Outreach & Transfer (Vaughan, B. T., Tuskegee University, Alabama), \$299,696, 2005-2008. Funding from USDA-ARS to purchase laboratory/pilot plant equipment, 2003-2018 (Total = \$799,062), for the unit's research program on processing technologies and phytochemicals in sweetpotatoes, cucumbers and other vegetables: twin-screw extruder (\$135,000), accelerated solvent extractor (\$43,000), freeze-dryer (\$42,000), fluorescence/absorbance multi-plate reader (\$45,000), HPLC unit (\$34,000), thermal conductivity meter (\$5,000), plastic cup sealer (\$4,500), Windhexe vortex dehydrator an (\$33,000), autoclave (\$50,000), Flow cytometer (\$40,000), centrifuge (\$19,000), HPLC (\$55,000), Ultra-HPLC (\$118,000), 2015-LC/MS (\$95,000), 2016-freezer, deep-fat fryer, hot extraction unit for fat analysis (\$32,499), 2017-HPLC-Decade II Electrochemical Detector, System Gel Imaging System (\$48,063).

## **f. Special Invitations**

- Truong, V.D. Historical perspective: Innovation in sweetpotato research and development. Invited presentations, Goodness Grows in the Carolinas – A Symposium Focusing on Advances in Sweetpotato Research and Processing through Public and Private Partnership, USDA-ARS Food Science and Market Quality & Handling Research Unit, Raleigh, and NC Sweetpotato Commission, Virtual, April 14, 2021.
- Truong, V.D. Sweetpotato processing and utilization in the United States. Invited presentation, Kirishima Roots Project (Japan)-In Search of the Root of the Sweetpotatoes, R&D Meeting with North Carolina Sweetpotato Commission and North Carolina State University, February 19, 2018.
- Truong, V.D. Innovations in sweetpotato processing in the United States. Invited Presentation, “New Roots, New Foods: Sweetpotato Processing Opportunities in Africa” organized by USAID, International Potato Center, USDA-ARS and NC State University, Raleigh, NC, June 30, 2017.
- Truong, V.D. Member, Panel-Grantsmanship Fundamentals Class by Webinar to ARS Scientists (Bob MacDonald, Coordinator, Partnerships and Grants, USDA-ARS-National Programs), October 26, 2017.
- Truong, V.D. Sweetpotato chemical constituents and value-added products. Invited Presentation, Sweetpotato Research Symposium, NC Research Campus, Kannapolis, NC, April 6, 2017.
- Truong, V.D. Recent developments in sweetpotato processing and utilization. Invited Presentation, Philippine Root Crop Research Center, Visayas State University, Leyte, Philippines, June 27, 2016.
- Truong, V.D. Sweetpotatoes for extruded snacks. Invited Discussion, General Mills, Minneapolis, MN, October 24, 2013.
- Truong, V.D. Biochemical changes in sweetpotato during long-term storage and quality of French fries, Invited Presentation, McCain Food Headquarters, Lisle, Chicago, December 14, 2012.
- Truong, V.D. Biochemical changes in sweetpotatoes during storage and implications for processing of value-added products. Sweetpotato Symposium, Potato Association of America, Annual Meeting, Wilmington, NC, August 14-18, 2011.
- Truong, V.D. Invited to write book chapters on: 1) “Sweetpotato Purees and Dehydrated Forms as Functional Food Ingredients” in “Sweetpotato in Food, Feed and Industry” edited by R. Ray and K. Tomlins, Nova Science Publishers, NY, 2010, 2) “Sweetpotatoes” in “Handbook of Vegetables and Vegetable Processing” edited by Y. H. Hui et al. Wiley-Blackwell, New Jersey, 2011, and 3) “Sweetpotato production, processing and nutritional quality. In: Siddiq, M. & Uebersax, M.A, editors. Handbook of Vegetables and Vegetable Processing. Wiley-Blackwell Publishing Co., Ames, Iowa, published in 2018.

- Truong, V.D. Sweetpotatoes for the food processing industries. Invited Presentation, Potato Quality Advisory Board Meeting, Frito Lay North America Inc., Plano, TX. July 2008.
- Truong, V.D. Recent development on value-added sweetpotato products. Sweetpotato Field Day. NC State University and NC Sweetpotato Commission, Kinston, NC. October 2006.
- Truong, V.D. New developments in sweetpotato processing technologies. Annual Meeting of the NC Sweetpotato Commission, Wilson, NC. January 2005.
- Truong, V.D. Aseptic processing of sweetpotato purees. Annual Meeting of the USDA-Japan Scientific Collaboration Program, Tokyo. October 25-30, 2005.
- Truong, V.D. Processing technologies, nutritional benefits and utilization of sweetpotatoes. Invited Presentation, R & D. World Headquarters, Campbell Soup Company, Camden, NJ. October 2003.
- Truong, V.D. Book chapters on "Evaluation of Sweetpotato Varieties for Food Uses in the Tropics" and "Physiochemical Properties and Utilization of Starches from Tropical Root Crops" in Post-harvest Biochemistry of Plant Food Materials in the Tropics, Japan Scientific Societies Press, Tokyo, 1994.
- Truong, V.D. Development of novel processing strategies for sweetpotatoes in the Philippines. International Potato Center (CIP). Lima, Peru. 1991.
- Truong, V.D. Sweetpotato beverages: product development and technology transfer. International Symposium on Sweetpotato Technology for the 21st Century, Tuskegee University, Alabama, 1991.
- Truong, V.D. Transfer of sweetpotato processing technologies: some experiences and key factors. Workshop on Processing, Marketing and Utilization of Root and Tuber Crops in Africa. International Institute for Tropical Agriculture (IITA), Ibadan, Nigeria. 1991.
- Truong, V.D. Key Elements affecting the commercialization of the research results: researcher's outlook. Southeast Asian Regional Workshop on Commercialization of Research Results. IDRC and SEARCA, Los Banos, Philippines. 1991.
- Truong, V.D. New developments in processing sweetpotatoes for food. Kagoshima University, Department of Agricultural Chemistry, Nagoya University, Tokyo University, and various sweetpotato processing factories in Kagoshima and Kawagoe, Japan, November. 1989.
- Truong, V.D. as a paid consultant for FAO and IDRC for project development missions in the Philippines and Vietnam to develop Root Crop R & D Programs, 1989, 1990, and Experts Meeting on Development of a Source Book on Processing and Marketing of Roots and Tubers, International Potato Center (CIP)-United Nations Development Programs (UNDP), Bangkok, Thailand, Nov. 1988.
- Truong, V.D. Invited to present a paper on "A Consumer-Oriented Approach for Development of Processed Sweetpotato Food Products," Inaugural Planning Workshop on the Users' Perspectives with Agricultural Research and Development (UPWARD), Baguio, Philippines, 1990.
- Truong, V.D. Invited to serve as a paid specialist on Post-harvest Technology for the CIP-IDRC missions to Vietnam to document the root crop post-production practices, assess research capabilities of agricultural research institutions, identify research needs, and develop R&D Root Crop Program, April 1-10, 1989, and August 10-24, 1990.
- Truong, V.D. Invited Speaker for seminar on "New Developments in Processing Sweetpotatoes for Food" to Kagoshima University, Department of Agricultural Chemistry. Visited Nagoya University, Tokyo University, and sweetpotato processing factories in Kagoshima & Kawagoe, Japan, November 6-15, 1989.
- Truong, V.D. Invited Resource Person, Panel of the Experts Meeting on Development of a Source Book on Processing and Marketing of Roots and Tubers: An Integrated Approach, Joint Activity of CIAT-International Potato Center-United Nations Development Programs, Bangkok, Thailand, Nov. 7-9, 1988.
- Truong, V.D. Invited to present two papers on "Formulation, Consumer Acceptability and Nutrient Content of Non-Alcoholic Beverages from Sweetpotatoes" and "Development of Small-Scale Technology for



Dehydrated Sweetpotato Cubes for Traditional Food Preparations,” Eighth Symposium of the International Society for Root and Tuber Crops, Bangkok, Thailand, 1988.

Truong, V.D. Invited to present a paper on “Sweetpotato Research and Development in the Philippines,” Workshop on Sweetpotato Improvement in Asia, Trivandrum, India, 1988.

Truong, V.D. Invited to present a paper on “New Developments in Processing Sweetpotatoes for Foods,” International Symposium on Sweetpotato Research and Development, sponsored by IDRC-SEARCA, Los Banos, Philippines, 1987.

Truong, V.D. Invited to serve as a paid Consultant for the Philippine Council for Agricultural Resources Research and Development (PCARRD)-USAID National Food Processing Program, May 1984.

## **g. United States/International Patents**

1. Simunovic J., Swartzel K.R., **Truong V.D.**, Cartwright G.D., Sandeep K.P, Parrott D.L., Coronel P. 2017. Methods and apparatuses for thermal treatment of foods and other biomaterials, and products obtained thereby. Patent No. 9,615,593 B2, issued April 11, 2017.
2. Simunovic J., Swartzel K.R., **Truong V.D.**, Cartwright G.D., Coronel P., Sandeep K.P, Parrott D.L. 2014. Methods and apparatuses for thermal treatment of foods and other biomaterials, and products obtained thereby. US Patent No. 8,742,305 B2, 2014, issued June 03, 2014.
3. Simunovic, J., K.R. Swartzel, **Truong V.D.**, G. Cartwright, P. Coronel, D. Parrott & K.P. Sandeep. 2013. Methods and apparatus for thermal treatment of foods and other biomaterials, and products obtained thereby. European Patent No. 1809565 granted on August 3, 2016.
4. Simunovic, J., Swartzel, K.R., **Truong V.D.**, Cartwright, G.D., Coronel, P., Parrott, D.L. and Sandeep, K.P. 2012. Methods and apparatus for thermal treatment of foods and other biomaterials, and products obtained thereby. Canadian Patent No.2583856, issued September 10, 2013.
5. Simunovic, J., Swartzel, K.R., **Truong V.D.**, Cartwright, G.D., Coronel, P., Parrott, D.L. and Sandeep, K.P. 2012. Methods and apparatus for thermal treatment of foods and other biomaterials, and products obtained thereby. Mexican application # 2007/003066-notice of allowance for 31 claims, November 6, 2012.
6. Simunovic, J., Swartzel, K.R., **Truong V.D.**, Cartwright, G.D., Coronel, P., Parrott, D.L. and Sandeep, K.P. 2012. Methods and apparatus for thermal treatment of foods and other biomaterials, and products obtained thereby. Australian Patent No.20055304583, issued May 31, 2012.
7. Simunovic, J., Swartzel, K.R., **Truong V.D.**, Cartwright, G.D., Coronel, P., Parrott, D.L. and Sandeep, K.P. 2011. Methods and apparatus for thermal treatment of foods and other biomaterials, and products obtained thereby. New Zealand Patent No. 553749, issued December 5, 2011.
8. Simunovic, J., Swartzel, K.R. **Truong, V.D.**, Cartwright. Coronel, P., Sandeep, K.P., and Parrott, D.L. 2010. Methods and apparatuses for thermal treatment of foods and other biomaterials, and products obtained thereby. Chinese patent #ZL200580038640.0, issued June 2, 2010.
9. Walter, W.M. Jr., **Truong, V.D.** and Espinel, K.E. Methods for producing cooked sweetpotato products and compositions thereof. U.S. Patent No. 6,197,363 B1, issued March 06, 2001.
10. **Truong, V.D.** and Fementira, G.T. Process of producing non-alcoholic beverages and concentrates from sweet potato. Philippines Patent No. 23269, issued June 23, 1989.
11. **Truong, V.D.**, Sembrano, A.T. and Fementira, G.B. Process for preparing dried sweet potato product with a sweet and sour taste, Philippines Patent No. 22242, issued July 01, 1988.

## **Patent Pending/Disclosures**

12. Simunovic, J., K.R. Swartzel, V.D. Truong, G. Cartwright, K.P. Sandeep D. Parrott & P. Coronel. 2017. Methods and apparatus for thermal treatment of foods and other biomaterials, and products obtained thereby. US Patent Pub. No.: US 2017/0273324 A1, Sept. 28, 2017.

13. Simunovic, J., K.R. Swartzel, V.D. Truong, G. Cartwright, D. Parrott, P. Coronel, & K.P.Sandeep . Methods and apparatus for thermal treatment of foods and other biomaterials, and products obtained thereby. US patent application # 20110036246 A1, filed February 17, 2011.
14. Amézquita A, Kelly RM, Simunovic J, Truong V.D., Yen C-Y, Ozdemir I. 2010. Methods and devices for validation of thermal processes using time-temperature integrators and temperature level detection. NCSU- ARS Invention Disclosure, NCSU docket # 11033, October 08, 2010. (ARIS docket # 0011.11; Serial 12/855,338; November 04, 2010).

## **h. Publications**

Accessible on-line at **Van-Den Truong's Google Scholar Page:**

[https://scholar.google.com/citations?view\\_op=list\\_works&hl=en&user=MAv-AoQAAAAJ](https://scholar.google.com/citations?view_op=list_works&hl=en&user=MAv-AoQAAAAJ)

1. Amankwaah, V.A., Williamson, S., Olukolu, B.A., **Truong, V.D.**, Carey, E., Ssali, R., Yencho, G.C. 2023. Interrelations of  $\alpha$ - and  $\beta$ -amylase activity with starch, sugars, and culinary and nutritional quality attributes in sweetpotato storage roots. *Journal of the Science of Food and Agriculture, Open Access*, 05 July 2023, <https://doi.org/10.1002/jsfa.12832>
2. Amankwaah, V.A., Williamson, S., Reynolds, R., Ibrahim, R., Pecota, K.V., Zhang, X., Olukolu, B.A., **Truong, V.D.**, Carey, E., Zum Felde, T., Ssali, R., Yencho, G.C. 2023. Development of NIRS calibration curves for sugars in baked sweetpotato. *Journal of the Science of Food and Agriculture, Open Access*, 21 June 2023, <https://doi.org/10.1002/jsfa.12800>
3. Moyo, M., **Truong, V.D.**, Simunovic, J., Pankuku, J., Abang, G.O., Amagloh, F., Fuchs, R., Magnaghi, A., Rajendran, S., Grant, F. and Muzhingi, T. 2022. Orange-fleshed sweetpotato puree, a breakthrough product for the bakery sector in Africa. In: Thiele, G., Friedmann, M., Campos, H., Polar, V., Bentley, J.W. (eds). "Root, Tuber and Banana Food System Innovations", Springer, Cham., p. 145-172. [https://doi.org/10.1007/978-3-030-92022-7\\_5](https://doi.org/10.1007/978-3-030-92022-7_5). (Book Chapter)
4. Allan, M.C., Marinos, N., Johanningsmeier, S.D., Sato, A., and **Truong, V.D.** 2021. Relationships between isolated sweetpotato starch properties and textural attributes of 4 sweetpotato French fries. *Journal of Food Science*, 86(5):1819–1834. <https://doi.org/10.1111/1750-3841.15725>
5. Qiu, X., Reynolds, R., Johanningsmeier, S.D. and **Truong, V.D.** 2020. Determination of free amino acids in five commercial sweetpotato cultivars by hydrophilic interaction liquid chromatography-mass spectrometry. *Journal of Food Composition and Analysis* 92 (September 2020), 103522. 2020. <https://doi.org/10.1016/j.jfca.2020.103522>
6. Zuleta-Correa, A., Chinn, A., Alfaro-Cordoba, M., **Truong, V.D.**, Yencho, G. C. and Bruno-Barcena, J.M. 2020. Use of unconventional mixed acetone-butanol-ethanol solvents for anthocyanin extraction from purple-fleshed sweetpotatoes. *Food Chemistry* 314 (1 June 2020), 125959. <https://doi.org/10.1016/j.foodchem.2019.125959>
7. Truong, A.N., Thor, Y. W., Simunovic, J., Harris, G. K., and **Truong, V.D.** 2019. Acid inhibition on polyphenol oxidase and peroxidase in processing of anthocyanin-rich juice and co-product recovery from purple-fleshed sweetpotatoes. *Journal of Food Science*, 84(7), 1730-1736. <https://ift.onlinelibrary.wiley.com/doi/abs/10.1111/1750-3841.14664>
8. Chilungo, S., Muzhingi, T., **Truong, V.D.** and Allen, J.C. 2019. Effect of processing and oil type on carotene bioaccessibility in traditional foods prepared with flour and puree from orange-fleshed sweetpotatoes. *International Journal of Food Science & Technology*, doi:10.1111/ijfs.14106.
9. Chilungo, S., Muzhingi, T., **Truong, V.D.** and Allen, J.C. 2019. Effect of storage and packaging materials on color and carotenoid content of orange-fleshed sweetpotato flours. *International Journal of Innovative Science and Research Technology*, 4(9), 362-369.

10. **Truong, V.D.**, Avula, R.Y., Pecota, K. and Yencho, C.G. 2018. Sweetpotato production, processing and nutritional quality. In: Siddiq, M. & Uebersax, M.A, editors. Handbook of Vegetables and Vegetable Processing. Wiley-Blackwell Publishing Co., Alowa, Chapter 35, p. 811-838. (Book Chapter)
11. Sato A., **Truong VD**, Reynolds R, Johanningsmeier SD, Pecota KV, Yencho CG. 2018. Chemical constituents of sweetpotato genotypes in relation to textural characteristics of processed French fries. *J Food Sci.* 83(1):60-73.
12. Ding ZS, Johanningsmeier SD, Price R, Reynolds R, **Truong VD**, Payton SC, Breidt F. 2018. Evaluation of nitrate and nitrite contents in pickled fruit and vegetable products. *Food Control* 90:304-311.
13. Barkley SL, Schultheis JR, Chaudhari S, Johanningsmeier SD, Jennings KM, **Truong VD**, Monks DW. 2017. Yield and consumer acceptability of ‘Evangeline’ sweetpotato for production in North Carolina. *HortTechnol* 27(2):281-290.
14. Adedipe OE, Johanningsmeier SD, **Truong VD**, Yencho G. 2016. Development and validation of a near-infrared spectroscopy method for the prediction of acrylamide content in French-fried potato. *J Agric Food Chem* 64:1850-1860.
15. Todd S, **Truong VD**, Pecota KV, Yencho G. 2015. Combining ability of sweetpotato germplasm for yield, dry matter content, and anthocyanin production. *J Am Soc Hort Sci* 140(3):272-279.
16. Grace MH, Truong AN, **Truong VD**, Raskin I, Lila M. 2015. Novel value-added uses for sweet potato juice and flour in polyphenol- and protein-enriched functional food ingredients. *Food Sci Nutr* 3(5):415-424.
17. Diaz JT, Chinn MS, **Truong VD**. 2014. Simultaneous saccharification and fermentation of industrial sweetpotatoes for ethanol production and anthocyanins extraction. *Ind Crops Prod* 62:53-60.
18. Maloney KP, **Truong VD**, Allen JC. 2014. Susceptibility of sweetpotato (*Ipomoea batatas*) peel proteins to digestive enzymes. *Food Sci Nutr* 2(4):351–360. doi: 10.1002/fsn3.110. (pdf format)
19. **Truong VD**, Pascua YT, Reynolds R, Thompson RL, Palazoglu K, Mogol B, Gokmen V. 2014. Processing treatments for mitigating acrylamide formation in sweetpotato French fries. *J Agric Food Chem* 62:310-316.
20. Grace MH, Yousef GG, Gustafson SJ, **Truong VD**, Yencho GC, Lila MA. 2014. Phytochemical changes in phenolics, anthocyanins, ascorbic acid, and carotenoids associated with sweetpotato storage and impacts on bioactive properties. *Food Chem* 145:717-724.
21. Maloney KP, **Truong VD**, Allen JC. 2014. Susceptibility of sweetpotato (*Ipomoea batatas*) peel proteins to digestive enzymes. *Food Science & Nutrition*. 1 April 2014, DOI: 10.1002/fsn3.110.
22. Adu-Kwarteng E, Ayernor G, **Truong VD**, Shih F, Daigle K. 2014. Variability of sugars in staple-type sweetpotato (*Ipomoea batatas*) cultivars: The effects of harvest time and storage. *Int J Food Prop* 17(2):410-420.
23. Kumar, P., Sandeep, K.P., Alavi, S., **Truong, V.D.** 2014. Analytical techniques for structural characterization of biopolymer-based nanocomposites. In “Polymers for packaging applications”, Edited by Alavi, S., Thomas, S., **Sandeep, K.P.**, Kalarikkal, N., Varghese, J., Yarangalla, S. Apple Academic Press. pp. 307-336. 2014. (Book Chapter)
24. Koskiniemi CB, **Truong VD**, McFeeters RF, Simunovic J. 2013. Quality evaluation of packaged acidified vegetables subjected to continuous microwave pasteurization. *LWT - Food Sci Technol* 54:157-164.
25. Koskiniemi CB, **Truong VD**, McFeeters RF, Simunovic J. 2013. Effects of acid, salt and soaking time on the dielectric properties of acidified vegetables. *Int J Food Prop* 16:917-927.
26. Maloney KP, **Truong VD**, Allen JC. 2012. Chemical optimization of protein extraction from sweet potato (*Ipomoea batatas*) peel. *J Food Sci* 77(11):E307-E312
27. **Truong VD**, Hu Z, Thompson RL, Yencho G, Pecota KV. 2012. Pressurized liquid extraction and quantification of anthocyanins in purple-fleshed sweetpotato genotypes. *J Food Comp Anal* 26:96-103.
28. Leksrisonpong PP, Whitson ME, **Truong VD**, Drake MA. 2012. Sensory attributes and consumer

- acceptance of sweetpotato cultivars with varying flesh colors. *J Sens Stud* 27:59-69.
29. Allen JC, Corbitt AD, Maloney KP, Butt MS, **Truong VD**. 2012. Glycemic index of sweetpotatoes as affected by cooking methods. *The Open Nutr J* 6:1-11.
  30. Koskiniemi CB, **Truong VD**, Simunovic J, McFeeters RF. 2011. Improvement of heating uniformity in packaged acidified vegetables pasteurized with a 915 MHz continuous microwave system. *J Food Eng* 105:149-160.
  31. Cervantes-Flores JC, Sosinski B, Pecota K, Mwanga RM, Catignani GL, **Truong VD**, Watkins RH, Ulmer MR, Yencho G. 2011. Identification of quantitative trait Loci for dry-matter, starch, and  $\beta$ -carotene content in Sweetpotato. *Mol Breeding* 28(2):201-216.
  32. Kumar P, Sandeep KP, Alawi S, **Truong VD**. 2011. A review of experimental and modeling techniques to determine properties of biopolymer-based nanocomposites. *J Food Sci.* 76(1):E2-E14.
  33. **Truong V.D.**, Avula R.Y., Pecota K., Yencho C.G. 2011. Sweetpotatoes. In: Sinha NK, editor. *Handbook of vegetables & vegetable processing*. New Jersey: Wiley-Blackwell. p 717-737. (Book Chapter)
  34. **Truong V.D.**, Avula R.Y. 2010. Sweet potato purees and powders for functional food ingredients. In: Ray RC, Tomlins KI, editors. *Sweet potato: Post harvest aspects in food, feed and industry*. New York: Nova Science Publishers, Inc. p 117-161. (Book Chapter)
  35. Bridgers E, Chinn MS, **Truong VD**. 2010. Extraction of anthocyanins from industrial purple-fleshed sweetpotatoes and enzymatic hydrolysis of residues for fermentable sugars. *Ind Crops Prods.* 32(3):613-620.
  36. Kumar P, Sandeep KP, Alawi S, **Truong VD**, Gorga RE. 2010. Preparation and characterization of bio-nanocomposite films based on soy protein isolate and montmorillonite using melt extrusion. *J Food Eng* 100(3):480-489.
  37. Kumar P, Sandeep KP, Alawi S, **Truong VD**, Gorga RE. 2010. Effect of type and content of modified montmorillonite on the structure and properties of bio-nanocomposite films based on soy protein isolate and montmorillonite. *J Food Sci* 75(5):N46-N56.
  38. **Truong VD**, Deighton N, Thompson RL, McFeeters RF, Dean LL, Pecota KV, Yencho G. 2010. Characterization of Anthocyanins and Anthocyanidins in Purple-Fleshed Sweetpotatoes by HPLC-DAD and LC-ESI/MS-MS. *J Agric Food Chem* 58:404-410.
  39. Steed, L. E., **Truong, V. D.**, Simunovic, J., Sandeep, K. P., Kumar, P., Cartwright, G. D. and Swartzel, K. R. 2008. Continuous flow microwave-assisted processing and aseptic packaging of purple-fleshed sweetpotato purees. *J. Food Sci.* 73(9): E455-E462.
  40. Steed, L. E., **Truong, V. D.** 2008. Anthocyanin content, antioxidant activity and selected physical properties of flowable purple-fleshed sweetpotato purees. *J. Food Sci.* 73(5): S215-S221.
  41. Yencho, G. C., Pecota, K. V., Schultheis, J. R., VanEsbroeck, Z. P., Holmes, G., Little, B. E., Thornton, A. C., **Truong, V. D.** Covington sweetpotato. *HortSci.* 43: 1911-1914. 2008.
  42. P. Kumar, Coronel, P., **Truong, V. D.**, Simunovic, J., Swartzel, K. R., Sandeep, K. P. and Cartwright, G. D. 2008. Overcoming issues associated with the scale-up of a continuous flow microwave system for aseptic processing of vegetable purees. *Food Research International* 41(5): 454-461.
  43. Perez-Diaz, I. M., **Truong, V. D.**, Webber, A. and McFeeters, R. F. 2008. Effects of preservatives and mild acidification on microbial growth in refrigerated sweetpotato puree. *J. Food Protection.* 71(3): 639-642.
  44. Brinley, T. A., **Truong, V. D.**, Coronel, P., Simunovic, J. and Sandeep, K. P. 2008. Dielectric properties of sweetpotato purees at 915 MHz as affected by temperature and chemical composition. *International J. Food Properties* 11: 158-172.
  45. **Truong, V. D.**, McFeeters, R. F., Thompson, R. T., Dean, L. O., and Shofran, B. 2007. Phenolic acid content and composition in commercial sweetpotato (*Ipomea batatas* L.) cultivars in the United States. *J. Food Sci.* 72(6): C343-C349.
  46. Teow, C. C., **Truong, V. D.**, McFeeters, R. F., Thompson, R. L. Pecota, K. V. and Yencho, G. C. 2007. Antioxidant activities, phenolic and  $\beta$ -carotene contents of sweetpotato genotypes with varying

- flesh colors. *Food Chem.* 103: 829-838.
47. Kumar, P., Coronel, P., Simunovic, J., **Truong, V. D.** and Sandeep, K. P. 2007. Measurement of dielectric properties of pumpable food materials under static and continuous flow conditions. *J. Food Sci.* 72: E177-183.
  48. Brinley, T. A., Dock, C. N., **Truong, V. D.**, Coronel, P., Kumar, P., Simunovic, J., Sandeep, K. P., Cartwright, G. D., Swartzel, K. R., and Jaykus, L. A. 2007. Feasibility of utilizing bio-indicators for testing microbial inactivation in sweetpotato purees processed with a continuous flow microwave system. *J. Food Sci.* 72: E235-242.
  49. Grabowski, J. A., **Truong, V. D.** and Daubert, C. R. 2007. Nutritional and rheological characterization of spray dried sweetpotato powder. *Lebensmittel Wissenschaft und Technologie (LWT-Food Science & Technology)* 41: 206-216.
  50. Grabowski, J. A., **Truong, V. D.** and Daubert, C. R. 2006. Spray-drying of amylase hydrolyzed sweetpotato puree and physicochemical properties of powder. *J. Food Sci.* 71: 209-217.
  51. Shih, F. F., **Truong, V. D.** and Daigle, K. W. 2006. Physicochemical properties of gluten-free pancakes from rice and sweetpotato flours. *J. Food Quality* 29: 97-107.
  52. Coronel, P., **Truong, V. D.**, Simunovic, J., Sandeep, K. P. and Cartwright, G. D. 2005. Aseptic processing of sweetpotato purees using a continuous flow microwave system. *J. Food Sci.* 70: 531-536.
  53. McConnell, R. Y., **Truong, V. D.**, Walter, Jr., W. M. and McFeeters, R. F. 2005. Physical, chemical and microbial changes in shredded sweetpotatoes. *J. Food Process. Preserv.* 29: 246-267.
  54. Williams, S., Wright, B., **Truong, V. D.**, Daubert, C. R. and Vinyard, C. J. The mechanical properties of foods used in experimental studies of primate masticatory function. *Amer. J. Primatol.* 67: 329-346. 2005.
  55. **Truong, V. D.**, Clare, D. A., Catignani, G. L. and Swaisgood, H. E. 2004. Cross-linking and rheological changes of whey proteins treated with transglutaminase. *J. Agric. Food Chem.* 52: 1170-1176.
  56. Walter, W. M., **Truong, V. D.**, Simunovic, N. and McFeeters, R. F. 2003. Low temperature blanching of sweetpotatoes to improve firmness retention: effect on cell wall composition and textural properties. *J. Food Sci.* 68: 1244-1247.
  57. Wang, Y. J., **Truong, V. D.** and Wang, L. 2003. Structures and rheological properties of corn starch as affected by acid hydrolysis. *Carbohydr. Poly.* 52: 327-333.
  58. **Truong, V. D.** and Daubert, C. R. 2003. Rheological methods for assessment of food freshness and stability. K. R. Cadwallader and H. Weenen (eds.), *ACS Symposium on Freshness and Shelf Life of Foods*, August 26-30, 2001, Chicago, American Chemical Society, Washington DC, p. 248-269. (Book Chapter)
  59. **Truong, V. D.**, Daubert, C. R., Drake, M. A. and Baxter, S. R. 2002. Vane rheometry for textural characterization of Cheddar cheeses: Correlation with other instrumental and sensory measurements. *Lebensmittel Wissenschaft und Technologie (LWT-Food Science & Technology)* 35: 305-314.
  60. Walter, W. M. Jr., **Truong, V. D.** and Espinel, K. R. 2002. Texture measurements and product quality of restructured sweetpotato fries. *Lebensmittel Wissenschaft und Technologie (LWT-Food Science and Technology)* 35: 209-215.
  61. **Truong, V. D.** and Daubert, C. R. 2001. Textural characterization of cheeses using vane rheometry and torsion analysis. *J. Food Sci.* 66: 716-721.
  62. **Truong, V. D.** and Daubert, C. R. 2000. Comparative study of large strain methods for assessing failure characteristics of selected food gels. *J. Text. Stud.* 31: 335-353.
  63. Walter, W. M. Jr., **Truong, V. D.**, Wiesenborn, D. P., and Carvajal, P. 2000. Rheological and physicochemical properties of starches from moist- and dry-type sweetpotatoes. *J. Agric. Food Chem.* 48: 2937-2942.
  64. Drake, M. A., Gerard, P. D., **Truong, V. D.** and Daubert, C. R. 1999. Relationship between instrumental and sensory measurements of cheese texture. *J. Text. Stud.* 30: 451-476.
  65. Walter, W. M. Jr., **Truong, V. D.** and Espinel, K. R. 1999. Effects of sweetpotato puree processing methods on textural properties of an alginate-texturized product. *J. Food Qual.* 22: 631-640.

66. Drake, M. A., **Truong, V. D.** and Daubert, C. R. 1999. Rheological and sensory properties of reduced-fat processed cheeses containing lecithin. *J. Food Sci.* 64: 744-747.
67. **Truong, V. D.**, Walter, W. M. Jr. and Bett, K. L. 1998. Textural properties and sensory quality of processed sweetpotatoes as affected by low temperature blanching. *J. Food Sci.* 63: 739-743.
68. Daubert, C. R., Tkachuk, J. A. and **Truong, V. D.** 1998. Quantitative measurement of food spreadability using the vane method. *J. Text. Stud.* 29: 427-435.
69. Walter, W. M. Jr., Sylvia, K. E. and **Truong, V. D.** 1998. Alkali-neutralization process maintains the firmness and sensory quality of canned sweetpotato pieces. *J. Food Qual.* 21: 421-431.
70. **Truong, V. D.**, Walter, W. M. Jr. and Hamann, D. D. 1997. Relationship between instrumental and sensory parameters of cooked sweetpotato texture. *J. Text. Stud.* 28: 163-185.
71. Walter, W. M. Jr., Collins, W. W., **Truong, V. D.** and Fine, T. I. 1997. Physical, compositional and sensory properties of French fry-type products from five sweetpotato selections. *J. Agric. Food Chem.* 45:383-388.
72. Yeoh, H. H. and **Truong, V. D.** 1996. Protein contents, amino acid compositions and nitrogen-to-protein conversion factors for cassava roots. *J. Sci. Food Agric.* 70: 51-54.
73. Yeoh, H. H. and **Truong, V. D.** 1996. Amino acid composition and nitrogen-to-protein conversion factors for sweet potato. *Trop. Sci.* 36: 243-246.
74. **Truong, V. D.**, Walter, W. M. Jr. and Giesbrecht, F. G. 1995. Texturization of sweetpotato puree with alginate: Effects of tetrasodium pyrophosphate and calcium sulfate. *J. Food Sci.* 60: 1054-1059, 1074.
75. **Truong, V. D.** and Walter, W. M. Jr. 1994. Physical and sensory properties of sweetpotato puree texturized with cellulose derivatives. *J. Food Sci.* 59: 1175-1180.
76. **Truong, V. D.** 1994. Development and transfer of processing technologies for fruity food products from sweetpotatoes. *Acta Horticulturae (ISHS)* 380: 413-420.
77. Nagahama, T. and **Truong, V. D.** 1994. Physicochemical properties and utilization of starches from tropical root crops. In Uritani, I., Garcia, V. V., and Mendoza, E. M. T. (eds.). *Post Harvest Biochemistry of Plant Food Materials in the Tropics*, Japan Scientific Societies Press, Tokyo, p. 205-221. (Book Chapter)
78. **Truong, V. D.** and Nagahama, T. 1994. Evaluation of sweetpotato varieties for food uses in the tropics. In Uritani, I., Garcia, V. V., and Mendoza, E. M. T. (eds.). *Post harvest Biochemistry of Plant Food-Materials in the Tropics*, Japan Scientific Societies Press, Tokyo, p. 223-240. (Book Chapter)
79. **Truong, V. D.** 1994. Development of sweetpotato beverages in The Philippines. In: Wheatley, C., Scott, G. J., Best, R., and Wiersema, S. (eds.). *Adding value to root and tuber crops: A manual on product development*. CIAT, Cali, Colombia, p. 99-101. (Training Manual)
80. **Truong, V. D.** Evaluation of sweetpotato cultivars for processing. In Rasco, E. T. and Amante, V. R. (Eds.). *Training manual for sweetpotato cultivar evaluation*. Southeast Asian Program for Potato Research and Development- International Potato Center, Lima, Peru, p. 62-78. (Training Manual)
81. Yeoh, H. H. and **Truong, V. D.** 1993. Quantitative analysis of linamarin in cassava using a cassava beta-glucosidase electrode. *Food Chem.* 47: 295-298.
82. Dignos, R. L., Cerna, P. F. and **Truong, V. D.** 1992. Beta-carotene content of sweetpotato and its processed products. *ASEAN Food J.* 7: 163-166.
83. **Truong, V. D.** 1992. Sweetpotato beverages: Product development and technology transfer. In Hill, W. A., Bonsi, C. K. and Loretan, P. A. (eds.). *Sweetpotato Technology for the 21st Century*. Proceedings of the International Symposium, June 2-6, 1991, Tuskegee, Alabama, p. 389-399. (Conference Proceedings)
84. **Truong, V. D.**, Palomar, L. S. and Amestoso, F. J. 1992. Processing and utilization of cassava in the Philippines. In CIAT. *Cassava Breeding, Agronomy and Utilization Research in Asia*. Proceedings of the Third Asian Cassava Research Workshop, October 21-28, 1990, Malang, Indonesia, p. 339-354. (Conference Proceedings)
85. **Truong, V. D.** 1992. Transfer of sweetpotato processing technologies: Some experiences and key factors. In Scott, G., Wiersema, S. and Ferguson, P. I. (eds.). *Product Development for Root and*

- Tuber Crops. Volume 1 - Asia. Proceedings of the International Workshop, April 22-May 1, 1991, VISCA, Philippines, sponsored by CIAT and CIP, Lima, Peru, p. 195-206. (Conference Proceedings)
86. **Truong, V. D.** 1992. Approaches in sweetpotato product development and technology transfer: Philippines' experience. In Scott, G., Ferguson, P. I., and Herrera, J. E. (eds.). Product Development for Root and Tuber Crops. Volume 3 - Africa. Proceedings of the Workshop on Processing, Marketing and Utilization of Root and Tuber Crops in Africa, October 26-November 2, 1991, Ibadan, Nigeria, sponsored by CIAT, CIP and International Institute for Tropical Agriculture (IITA). CIP, Lima, Peru, p. 475-480. (Conference Proceedings)
  87. Roa, J. R., **Truong, V. D.** and Amestoso, F. J. 1991. Sweetpotato farm-market surveys: Some notes on methods. In UPWARD, April 3-5, 1990, Baguio, Philippines, p. 139-152. 1991. (Conference Proceedings)
  88. **Truong, V. D.** 1991. Key elements affecting the commercialization of the research results: researcher's outlook. In Fernandez, R. A. (ed.). Proceedings of the Regional Workshop on Commercialization of Research Results, March 25-27, 1991, Los Banos, Philippines, (International Development Research Centre (IDRC)- Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA), p. 79-90. (Conference Proceedings)
  89. **Truong, V. D.**, Roa, J. R. and Amestoso, F. J. 1991. A consumer-oriented approach for development of processed sweetpotato food products. In Proceedings of the Inaugural Planning Workshop on the Users' Perspectives With Agricultural Research and Development (UPWARD), April 3-5, 1990, Baguio, Philippines, p. 114-121. (Conference Proceedings)
  90. **Truong, V. D.** and Fementira, G. B. 1990. Formulation, consumer acceptability and nutrient content of non-alcoholic beverages from sweetpotatoes. In Howler, R. H. (ed.). Proceedings of the Eighth Symposium of the International Society for Tropical Root Crops, October 31-November 5, 1988, Bangkok, Thailand, p. 589-599. (Conference Proceedings)
  91. **Truong, V. D.** and Gatchalian, M. 1990. Root and tuber crops. In Gatchalian, M. and de Leon, S. (eds.). Introduction to Food Technology, U. P. Press, Diliman, Philippines. (Book Chapter)
  92. **Truong, V. D.** 1989. New developments in processing sweetpotato for food. In Mackay, K. T., Palomar, M. K., and Sanico, R. T. (eds.). Sweetpotato Research and Development for Small Farmers. Proceedings of the International Symposium on Sweetpotato, May 20-25, 1987, VISCA, Leyte, sponsored by International Development Research Centre (IDRC) and Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA), Los Banos, Philippines, p. 213-226. (Conference Proceedings)
  93. Amestoso, F. J., Roa, J. R. and **Truong, V. D.** 1989. Sweetpotato marketing in selected urban centers in The Philippines. In International Potato Center (CIP). The Potato and Sweetpotato in Southeast Asia and the Pacific Region. Working Paper #89-17. CIP Region VII, Los Banos, Philippines. (Conference Proceedings)
  94. Palomar, M. K., Bulayog, E. F. and **Truong, V. D.** 1989. Sweetpotato research and development in the Philippines. In CIP. Improvement of Sweetpotato (*Ipomoea batatas*) in Asia. Report of the Workshop on Sweetpotato Improvement in Asia, October 24-28, 1988, Trivandrum, India, p. 79-86. (Conference Proceedings)
  95. **Truong, V. D.** Soybeans: chemistry and technology (in Vietnamese). In Le, D. D. (ed.). Quality of Agricultural Produce Series. Agricultural Publishing Center, Hanoi, Vietnam, p. 1-95. (Book Chapter)
  96. **Truong, V. D.** and Cerna, P. F. 1988. Effects of traditional processing methods on the cyanide and nutrient contents of cassava flour. Phil. J. Food Sci. Technol. 12: 11-15.
  97. **Truong, V. D.** 1988. Processing and utilization of cassava. In PCARRD, State-of-the-Art: Cassava Research and Abstract Bibliography, Los Banos, Philippines, p. 55-68. (Book Chapter)
  98. **Truong, V. D.**, Biermann, C. and Marlett, J. A. Simple sugars, oligosaccharides and starch concentrations in raw and cooked sweet potato. J. Agric. Food Chem. 34: 421-425. 1986.
  99. **Truong, V. D.** Researches on the processing of root crops for food in The Philippines. Phil. J. Food Sci. Technol. 10: 3-19. 1986.

100. **Truong, V. D.**, Fementira, G. B. and Libot, A. P. Studies on the processing of a dehydrated food product from young coconut endosperm. *Phil. J. Coc. Stud.* 11: 31-39. 1986.
101. **Truong, V. D.** and Alabastro, E. F. 1986. Pre-packing of fresh Chinese cabbage (*Brassica chinensis* L.). *Phil. J. Food Sci. Technol.* 10: 88-92.
102. **Truong, V. D.** 1986. Processing of sweetpotato for food and industrial uses. In Philippine Council for Agricultural Resources Research and Development (PCARRD). State-of-the-Art: Sweetpotato Research, Los Banos, Philippines, p. 38-47. (Book Chapter)
103. **Truong, V. D.**, Raymundo, L. C. and Mendoza, E. M. T. 1984. Chemical and biochemical changes in germinating winged bean (*Psophocarpus tetragonolobus* (L.) DC) seeds. *Phil. Agric.* 67: 319-328.
104. Laurena, A. C., **Truong, V. D.** and Mendoza, E. M. T. 1984. Effects of condensed tannins on the *in vitro* digestibility of cowpea (*Vigna unguiculata* (L.) Walp.). *J. Agric. Food Chem.* 32: 1045-1048.
105. Hernandez, V. S., **Truong, V. D.** and Mendoza, E. M. T. 1983. Characterization of seed proteins in *Vigna unguiculata* (L.) Walp. *Phil. J. Biol.* 12: 115-126.
106. Menancio, D. J., Mujer, C. V. and **Truong, V. D.** 1982. Simplified laboratory techniques in biochemical research and instruction: A laboratory manual. Philippine Biochemical Society, Philippines. (Technical Manual)
107. **Truong, V. D.**, Laguran, L. B., Abilay, R. M. and Mendoza, E. M. T. Screening for cowpea genotypes low in lipoxygenase. *Phil. Agric.* 65: 153-158. 1982.
108. **Truong, V. D.** and Mendoza, E. M. T. 1982. Purification and characterization of two lipoxygenase isoenzymes from cowpea (*Vigna unguiculata* (L.) Walp.). *J. Agric. Food Chem.* 30: 54-60.
109. **Truong, V. D.**, Raymundo, L. C. and Mendoza, E. M. T. 1982. Winged bean lipoxygenase. Part I: Isolation and purification. *Food Chem.* 8: 187-201.
110. **Truong, V. D.**, Raymundo, L. C. and Mendoza, E. M. T. 1982. Winged bean lipoxygenase. Part II: Physicochemical properties. *Food Chem.* 8: 277-289.
111. **Truong, V. D.**, Raymundo, L. C. and Mendoza, E. M. T. 1982. Some products of winged bean lipoxygenase-catalyzed reaction: A note. *Food Chem.* 8: 307-312.
112. Mendoza, E. M. T., **Truong, V. D.** and Hernandez, V. S. 1980. Biochemical assessment of cowpea proteins and other constituents. *Phil. Biochem. Soc. Bull.* 3:38-53.
113. **Truong, V. D.**, Raymundo, L. C. and Mendoza, E. M. T. 1979. Cowpea lipoxygenase: Physicochemical characterization. *Phil. Biochem. Soc. Bull.* 2: 1-12.

## **i. Abstracts/Presentations at Scientific Meetings**

1. **Truong, V.D.** Historical perspective: Innovation in sweetpotato research and development. Goodness Grows in the Carolinas – A Symposium Focusing on Advances in Sweetpotato Research and Processing through Public and Private Partnership, organized by USDA-ARS Food Science and Market Quality & Handling Research Unit, Raleigh, NC and North Carolina Sweetpotato Commission, Virtual, April 14, 2021.
2. Amankwaah, V.A., Oloka, B.M., da Silva Pereira, G., Olukolu, B.A., Ibrahim, R., Pecota, K., Mollinari, M., Williamson, S., Zhang, X., Carey, E., **Truong, V.D.**, Zeng, Z.B. and Yencho, G.C. QTL mapping for sugar components and  $\alpha$ - and  $\beta$ -amylase activity in sweetpotato at harvest and during post-harvest storage. National Sweetpotato Collaborators Annual Meeting, Nashville, TN, January 24-25, 2020.
3. Amankwaah, V.A., da Silva Pereira, G., Mollinari, M., Olukolu, B.A., Williamson, S., Zhang, X., **Truong, V.D.**, Carey, E., Zeng, Z.B. and Yencho, G.C. Identification of QTL for Storage Root  $\alpha$ - and  $\beta$ -Amylase Activity in Sweetpotato at Harvest and during Post-Harvest Storage. Plant and Animal Genome XXVIII Conference, January 11-15, 2020.
4. Allen J.C., Chilungo S., **Truong V.D.** Optimization of processing for vitamin A yield from orange-fleshed sweet potato products in Africa. IFT20 Annual Meeting-Online, Chicago IL, USA July 13, 2020, through 2021. Poster Session 7 - Nutrition.



5. Amankwaah, V.A., Williamson, S., Pecota, K., Adlink, M., Link, N.T., Olokulo, B., **Truong, V.D.**, Carey, E., and Yencho, G.C. Evaluation of alpha- and beta-amylase activity in relation to starch, sugars and beta-carotene in biparental mapping sweetpotato population. African Potato Association Meeting, Rwanda, August 25-29, 2019.
6. Amankwaah, V.A., Oloka, B.M., Williamson, S., Ibrahim, R., Zhang, X., Pecota, K., Link, N.T., Reynolds, R., **Truong, V.D.**, Carey, E., and Yencho, G.C. Changes in Sweetpotato Root Nutritional Quality in a Segregating Genetic Mapping Population at Harvest and during Post- Harvest Storage. Sweetpotato Processing, Marketing and Utilization: Community of Practice Meeting, International Potato Center (CIP-Kenya), Uganda, Africa, April 9-11, 2019.
7. **Truong, V.D.** 15 Years of Sweetpotato Research and Development at the USDA-ARS Food Science Research Unit. Annual Meeting, National Sweetpotato Collaborators Group, Wilmington, NC, January 19-21, 2018.
8. Caudill, M., **Truong, V.D.** and Simunovic, J. Small Scale Processing of Sweetpotato-Fruit Mixed Purees with High Phytonutrients using a Continuous Flow Microwave System. Annual Meeting, National Sweetpotato Collaborators Group, Wilmington, NC, January 19-21, 2018. *1<sup>st</sup> place, MS Students Oral Presentation Competition.*
9. Qiu, Xiao, Reynolds, R., **Truong, V.D.**, Johanningsmeier, S.D., Pecota, K.P. and Yencho, C.G. Browning and Acrylamide in Sweetpotato Fried Chips from Various Genotypes: Effects of Curing and Long-Term Storage. Annual Meeting, National Sweetpotato Collaborators Group, Wilmington, NC, January 19-21, 2018.
10. Feng, S., Allen, J. and **Truong, V.D.** Glycemic index of products derived from sweetpotatoes: chips, fries, flour and juice; compared to their analog white potato products. Annual Meeting, National Sweetpotato Collaborators Group, Wilmington, NC, January 19-21, 2018.
11. Chilungo, S., Muzhingi, T., Mbogo, D., **Truong, V.D.**, and Allen, J. Effect of storage and packaging materials on color and carotenoid content of orange-fleshed sweetpotato flours. Sweetpotato Processing, Marketing and Utilization: Community of Practice Meeting, International Potato Center (CIP-Kenya), Blantyre, Malawi, Africa, April 23– 25, 2018.
12. Qiu, Xiao, Reynolds, R., **Truong, V.D.**, Johanningsmeier, S.D., Pecota, K.P., Yencho, G.C. and Osborne, J.A. Free amino acids and sugars in fifteen sweetpotato genotypes: effects of storage and relationship with acrylamide formation in fried chips. IFT Annual Meeting, Chicago, IL, July 15-18, 2018. *Awarded 3rd place in the Fruit & Vegetable Products Division Poster Competition.*
13. Amankwaah, V.A., Williamson, S., Ibrahim, R., Zhang, X., Pecota, K., Adkins, M., Reynolds, R., **Truong, V.D.**, Carey, E., and Yencho, G.C. Comparison of nutritional quality traits between raw and baked sweetpotato in the TB mapping population. The 18th Triennial Symposium, International Society for Tropical Root Crops, Cali, Colombia, October 22-25, 2018.
14. Caudill, M., Stoforos, G.N., Simunovic, J. and **Truong, V.D.** Thermal Processing of Ionic Solutions at Different Viscosities Using a Modular 2450 MHz Continuous Flow Microwave System. Presented at the Life Sciences Technology Conference, International Society for Pharmaceutical Engineers (ISPE), Raleigh, NC, March 13, 2017, and Annual Meeting and Expo of the International Society for Pharmaceutical Engineers (ISPE), San Diego, CA, October 29-November 01, 2017.
15. Caudill, M., Stoforos, G.N., Simunovic, J. and **Truong, V.D.** Thermal Processing of Fruit and Vegetable Purees using a Modular 2450 MHz Continuous Flow Microwave System. IFT Annual Meeting, Las Vegas, June 25-28, 2017.
16. **Truong, V.D.** and Simunovic, J. Innovations in sweetpotato processing in the United States”, Expert Convening on “New Roots, New Foods: Sweetpotato Processing Opportunities in Africa”, sponsored by USAID, International Potato Center, USDA-ARS, NC State University, Raleigh, NC, June 30, 2017.
17. Qiu, Xiao, Reynolds, R., **Truong, V.D.**, Johanningsmeier, S.D., Pecota, K.P. and Yencho, G.C. Effects of sweetpotato genotypes and long-term storage on non-enzymatic browning and acrylamide formation in fried chips. IFT Annual Meeting, Las Vegas, June 25-28, 2017.

18. Sato A., **Truong V.D.**, Reynolds R., Johanningsmeier, S.D., Pecota, K.V. and Yencho G.C. Sweetpotato Genotypes and Textural Characteristics of French Fries. Presented at the Annual Meeting of the National Sweetpotato Collaborators Group, Mobile, Alabama, February 3-4, 2017.
19. Amankwaah V.A., Oloka, B.M., Ibrahem, R., Williamson, S., Machacek, J., Pecota, K.P., Olukolu, B., **Truong, V.D.** and Yencho, G.C. Evaluation of dry matter, starch, sugar,  $\beta$ -carotene content and amylase activities in the Tanzania x Beauregard mapping population. Presented at the Annual Meeting of the National Sweetpotato Collaborators Group, Mobile, Alabama, February 3-4, 2017.
20. **Truong, V.D.** Sweetpotato chemical constituents, processing technologies and value-added products. Presented at Sweetpotato Research Forum, North Carolina Research Campus, Kannapolis, NC, April 06, 2017.
21. **Truong, V.D.** Innovations in sweetpotato processing in the United States. Presented at the Expert Convening on "New Roots, New Foods: Sweetpotato Processing Opportunities in Africa" organized by USAID, International Potato Center, USDA-ARS and NC State University, Raleigh, NC, June 30, 2017.
22. Sato A., **Truong, V.D.**, Reynolds R., Pecota K.V., Yencho G.C. Chemical constituents of sweetpotato genotypes in relation to textural characteristics of sweetpotato French fries. IFT Annual Meeting, Chicago, IL, July 16-19, 2016. *Awarded 1<sup>st</sup> place in the Fruit & Vegetable Products Division Poster Competition.*
23. Qiu, Xiao, Reynolds, R., **Truong, V.D.**, Johanningsmeier, S.D., Pecota, K.P. and Yencho, G.C. Non-enzymatic browning and acrylamide formation in fried chips as affected by sweetpotato genotypes and curing process. IFT Annual Meeting, Chicago, IL, July 16-19, 2016.
24. Caudill, M., **Truong, V.D.** and Simunovic, J. Effects of Acidification of Sweetpotato-Based Products in Regard to Dielectric Properties for Microwave Processing. IFT Annual Meeting, Chicago, IL, July 16-19, 2016.
25. Feng, Y., Reynolds R. and **Truong, V.D.** Saponins in leaves of sweetpotato varieties grown in North Carolina: an exploratory study. Presented at the Annual Meeting of the National Sweetpotato Collaborators Group, San Antonio, TX, February 5-6, 2016.
26. Truong, V.D., Reynolds R., Pecota K.P., Yencho, G.C. Correlation of HPLC and spectrophotometric methods for anthocyanin quantification in purple-fleshed sweetpotato genotypes. IFT Annual Meeting, Chicago, IL, Chicago, IL, July 11-14, 2015.
27. Grace, M.H., Truong, A.N., **Truong, V.D.**, Raskin, I. and Lila, M.A. Alternative uses for colored-fleshed sweetpotato in polyphenolic- and protein-enriched food ingredients. Presented at the Annual Meeting of the National Sweetpotato Collaborators Group, Nashville, TN, January 24-25, 2015.
28. Pecota, K.P., Reeber, M., Schultheis, J., **Truong, V.D.** 20 Years of trait development at the NCSU sweetpotato breeding program. Presented at the Annual Meeting of the National Sweetpotato Collaborators Group, Nashville, TN, January 24-25, 2015.
29. Botwel, G., Reynolds, R., Thompson, R. and **Truong, V.D.** Reducing sugar and free amino group levels in stored sweetpotatoes as related to non-enzymatic browning in fried chips. IFT Annual Meeting, New Orleans, June 21-24, 2014.
30. Truong, A.N., Thor, Y., Simunovic, J., Harris, K., **Truong, V.D.** Process for pigmented juice extraction and co-product recovery from sweetpotatoes. Presented at the Annual Meeting of the National Sweetpotato Collaborators Group, Dallas, January 31-February 01, 2014.
31. **Truong V.D.**, Pascua Y.T., Reynolds R., Thompson R.L., Palazoglu K., Mogol B., Gokmen V. Reduction of Acrylamide Formation in Sweetpotato French Fries by Common Processing Treatments. Presented at the Annual Meeting of the National Sweetpotato Collaborators Group, Dallas, January 31-February 01, 2014.
32. Adedipe, O., Johanningsmeier, S.D., **Truong, V.D.**, Douches, D., Coombs, J., Clough, M. and Yencho, G.C. Near infrared spectroscopy method for quantification of acrylamide in processed potato products. The 98th Annual Meeting of the Potato Association of America, Spokane, WA. July 27-31, 2014.

33. Adedipe, O., Johanningsmeier, S.D., Yencho, G.C. and **Truong, V.D.** Development of a near infrared (NIR) model for prediction of acrylamide content in French-fried potatoes. The 248th National meetings and Exposition of the American Chemical Society (ACS), San Francisco, CA. August 10-14, 2014.
34. **Truong V.D.**, Pascua Y.T., Reynolds R., Thompson R.L., Palazoglu K., Mogol B., Gokmen V. Processing treatments for low acrylamide formation in sweetpotato French fries. IFT Annual Meeting, Chicago, July 13-16, 2013.
35. Thor, Y., Truong, A.N., Simunovic, J., Thompson, R. and **Truong, V.D.** Effect of acidification and pasteurization on carotenoids in orange-fleshed sweetpotato juice. IFT Annual Meeting, Chicago, July 13-16, 2013.
36. Feng S., **Truong, V.D.**, Allen, J.C. Nutrient fortification in sweet potato flour. IFT Annual Meeting, Chicago, July 13-16, 2013.
37. Allen, J.C., Wen, S., **Truong, V.D.** Sweet potato cultivar flesh color and compositional effects on glycemic index. Presented at the Experimental Biology Annual Meeting, Boston, April 20-24, 2013. The FASEB Journal. 2013; 27:1079.24.
38. Adedipe, O., Yencho, G.C., Johanningsmeier, S.D., and **Truong, V.D.** Near Infrared spectroscopy (NIRS) method for screening acrylamide content in processed potatoes (*Solanum Tuberosum*). Presented at US Potato Board National Chip Program meeting, Chicago, IL, December 10-11, 2013.
39. Todd, S., **Truong, V.D.**, Pecota, K.P., Yencho, G.C. Combining ability of sweetpotatoes for traits of industrial importance. Annual Meeting of the National Sweetpotato Collaborators Group, Birmingham, Alabama, February 4-5, 2012.
40. Truong, A.N. and **Truong, V.D.** Control of enzymatic oxidation during processing of purple-fleshed sweetpotatoes for anthocyanin-rich extracts and starch recovery. Presented at the Undergraduate Research Symposium, NC State University, April 12, 2011.
41. Truong, A.N., Simunovic, J. and **Truong, V.D.** Process development for producing pasteurized anthocyanin-rich juice and recovering starch from purple-fleshed sweetpotatoes. IFT Annual Meeting, Las Vegas, Nevada, June 25-28, 2012.
42. **Truong, V.D.**, Thompson, R., Simunovic, J., Cartwright, G., Coronel, P., Kumar, P., Sandeep, K.P., Swartzel, K.R. Carotenoids and tocopherols in sweetpotatoes subjected to pureeing and continuous flow microwave sterilization. IFT Annual Meeting, Las Vegas, Nevada, June 25-28, 2012.
43. **Truong, V.D.**, Pascua, Y.T., Reynolds, R., Thompson, R.L., Dean, L.O., Boyette, M.D., Schultheis, J.R., Yencho, G.C. and Kimber, J. Long-term storage of sweetpotatoes as related to French fry processing quality. Annual Meeting, National Sweetpotato Collaborators Group, Orange Beach, AL, January 22-23, 2011.
44. **Truong, V.D.**, Rong, R., Pascua, Y.T., Thompson, R. L., Schultheis, J. R., Yencho, G. C., Boyette, M. D. and Kimber, J. Storage of sweetpotatoes for French fry processing. Sweetpotato Educational Meeting Opportunity, NC Sweetpotato Commission, Wilson County, NC, Feb. 10, 2011.
45. Truong, A. N. and **Truong, V. D.** Control of enzymatic oxidation during processing of purple-fleshed sweetpotatoes for anthocyanin-rich extracts and starch recovery. Undergraduate Research Symposium, NC State University, Raleigh, April 12, 2011.
46. **Truong, V.D.**, Pascua, Y.T., Reynolds, R., Thompson, R.L., Dean, L.O., Boyette, M.D., Schultheis, J.R., Yencho, G.C. and Kimber, J. Chemical changes in sweetpotatoes during long-term storage as related to French fry processing quality. IFT Annual Meeting, New Orleans, June 11-14, 2011.
47. **Truong, V. D.**, Rong, R., Pascua, Y.T., Thompson, R. L., Schultheis, J. R., Yencho, G. C., Boyette, M. D. and Kimber, J. Chemical changes in sweet potatoes during long-term storage as related to French fry processing quality. IFT Annual Meeting, New Orleans, June 11-14, 2011.
48. Truong, A. N. and **Truong, V. D.** Effect of acidification on polyphenol oxidase activity, total phenolics, and anthocyanins in juice processed from purple-fleshed sweet potatoes. IFT Annual Meeting, New Orleans, June 11-14, 2011.
49. Maloney, K.P., Allen, J.C., and **Truong, V.D.** Chemical optimization of a process for extracting protein from sweet potato peel. IFT Annual Meeting, New Orleans, June 11-14, 2011.

50. Steed, L.E., **Truong, V.D.**, Simunovic, J., Sandeep, K.P. and Swartzel, K.R. Development of pre-treatments to increase texture retention of sweet potato particulates for microwave-assisted aseptic processing. IFT Annual Meeting, New Orleans, June 11-14, 2011.
51. Nshimiimana, E., Fuller, G.T., **Truong, V.D.**, Sandeep, K.P. and Lanier, T.C. Application of Windhexe ®; Dehydration technology for producing beta-carotene rich flours from sweet potatoes. IFT Annual Meeting, New Orleans, June 11-14, 2011. (Awarded 2nd place, Graduate Students' Poster Competition).
52. Pascua, Y.T., Simunovic, J., Sandeep, K.P., Perez-Diaz, I.M. and **Truong, V.D.** Quality and consumer acceptance of continuous flow microwave processed tomato salsa. IFT Annual Meeting, New Orleans, June 11-14, 2011. (4th place, Graduate Students' Poster Competition).
53. **Truong, V.D.** Biochemical changes in sweetpotatoes during storage and implications for processing of value-added products. Sweetpotato Symposium, Potato Association of America, Annual Meeting, Wilmington, NC, August 14-18, 2011.
54. Maloney, K.P., Allen, J. C., **Truong, V.D.** and Gilleskie, G. Protein Extraction from Sweet Potato Peel. BTEC Symposium, NC State University, Raleigh, October 14, 2010.
55. **Truong, V.D.** and Thompson, R.L. 2010. Carotenoids and tocopherols in sweetpotatoes. Annual Meeting, National Sweetpotato Collaborators Group, Florida, Feb. 6-7, 2010.
56. Steed, L.E., **Truong, V.D.**, Simunovic, J., Sandeep, K.P., Swartzel, K.R. 2010. Texture and Color of Sweetpotato Cubes Subjected to Continuous Flow Microwave Processing. IFT Annual Meeting, Chicago
57. Thibault, Y., Simunovic, J., Sandeep, K.P., Cartwright, C.D., Swartzel, K.R. and **Truong, V.D.** 2010. Continuous flow microwave sterilization and aseptic packaging of diced Roma tomatoes. IFT Annual Meeting, Chicago.
58. Yen, C-Y, Ozdemir, I. Amézquita, A., Kelly, B. R., **Truong, V. D.**, Simunovic, J. 2010. Testing of enzymatic time-temperature integrator implants for evaluation and validation of thermal sterilization under non-isothermal treatment conditions. IFT Annual Meeting, Chicago.
59. **Truong, V.D.**, Thompson, R.L., McFeeters, R.F., Simunovic, J., Cartwright, G.D., Coronel, P., Kumar, P., Sandeep, K.P. and Swartzel, K.R. 2010. Carotenoids and tocopherols in sweetpotato purees: effects of continuous flow microwave processing and aseptic packaging. IFT Annual Meeting, Chicago.
60. **Truong, V.D.**, Thompson, R.L., McFeeters, R.F., Dean, L., Pecota, K. and Yencho, G.C. Characterization of anthocyanins and anthocyanidins in purple-fleshed sweet potatoes by HPLC-DAD and LC-ESI/MS-MS, IFT Annual Meeting, Anaheim. 2009.
61. Kumar, P., Simunovic, J., **Truong, V.D.**, Swartzel, K.R., Cartwright, G., Sandeep, K.P. Temperature distributions and dielectric properties of vegetable purees under continuous flow microwave heating. IFT Annual Meeting, Anaheim. 2009.
62. Koskiniemi, C.B., **Truong, V.D.**, McFeeters, R.F., Simunovic, J. Effects of acid and salt on the dielectric properties of acidified vegetables. IFT Annual Meeting, Anaheim. 2009.
63. Yen, C-Y, Ozdemir, I., Amézquita, A., Kelly, R.M., **Truong, V.D.** and Simunovic, J. Development of enzymatic time-temperature Integrators (TTI) implants for design, evaluation and validation of thermal sterilization of foods and biomaterials. IFT Annual Meeting, Anaheim. 2009.
64. Stam, C.N., Smiley, R.D., Simunovic, J., **Truong, V.D.**, Sandeep, K.P. and Jaykus, L.A. Immobilized Bacillus spores for use as biological indicators in validating continuous flow microwave aseptic processing of a multiphase food product. IFT Annual Meeting, Anaheim. 2009.
65. Kumar, P., Sandeep, K.P., Alavi, S., **Truong, V.D.**, Gorga, R.E. Synthesis of Soy Protein Isolate-Montmorillonite Nanocomposite for Bio-Degradable Films Using Melt Extrusion. IFT Annual Meeting, Anaheim. 2009.
66. **Truong, V.D.**, Hu, Z., Thompson, R.L., Pecota, K. and Yencho, G.C. Analysis of anthocyanins in purple-fleshed sweetpotatoes, national Sweetpotato Collaborators Group, Annual Meeting, Atlanta. 2009.

67. Simunovic, J., Coronel, P., **Truong, V.D.**, Cartwright, G.D., Swartzel, K.R. and Sandeep, K.P. Development and commercialization of microwave-assisted aseptic processing and packaging of vegetable purees. IFT Annual Meeting, New Orleans. 2008.
68. Steed, L.E., **Truong, V.D.**, Sandeep, K.P., Kumar, P., Simunovic, J., Cartwright, G.D. and Swartzel, K.R. Nutraceutical content and quality of purple-fleshed sweetpotato puree as affected by canning and microwave-assisted aseptic processing. IFT Annual Meeting, New Orleans. 2008.
69. Patterson, K.W., Allen, J.C. and **Truong, V.D.** Amylase inhibition as a potential mechanism for the low glycemic response to sweet potatoes. IFT Annual Meeting, New Orleans. 2008.
70. Coronel, P., Simunovic, J., **Truong, V.D.**, Swartzel, K.R. Method and system for monitoring and measurement of color degradation of food materials under sterilization temperatures. IFT Annual Meeting, New Orleans. 2008.
71. Simunovic, J., Coronel, P., Swartzel, K.R. and **Truong, V.D.** Rapid microwave heating for preservation of fruit pulps and homogenates: dielectric properties and heating characteristics of berries. IFT Annual Meeting, New Orleans. 2008.
72. Coronel, P., Simunovic, J., Swartzel, K.R. and **Truong, V.D.** Potential for minimization of color degradation of aseptically processed banana purees by continuous flow microwave sterilization. IFT Annual Meeting, New Orleans. 2008.
73. Hill, E.N., Chinn, M.S., Yencho, C.G. and **Truong, V.D.** Design of processing conditions for converting purple-fleshed sweetpotatoes to fermentable sugars. Undergraduate Research Poster, Annual Conference, Institute of Biological Engineering, UNC Chapel Hill. March 2008.
74. Amezquita, A., Ozdemir, I., Yen, C-Y., Simunovic, J., **Truong, V.D.** and Kelly, R. 2008. Hyperthermophilic enzymes as candidates for sterilization time-temperature integrators. 5th International Thermal Processing Conference, CCFRA, January 25-26, 2008, Campden, UK.
75. **Truong, V.D.**, Simunovic, J., Coronel, P., Kumar, P., Steed, L.E., Sandeep, K.P., Cartwright, G. D. and Swartzel, K. R. Recent development in processing of sweetpotato puree for functional food ingredient. National Sweetpotato Collaborators Group, Annual Meeting, Asheville, North Carolina. January 2008.
76. **Truong, V.D.** Sweetpotatoes in the food processing industry. Potato Quality Technical Advisory Board Meeting, Frito Lay North America Inc., Plano, TX, July 30-31, 2008.
77. Amezquita, A., Ozdemir, I., Yen, C-Y., Simunovic, J., **Truong, V.D.** and Kelly, R. 2008. Hyperthermophilic enzymes as candidates for sterilization time-temperature integrators. 5<sup>th</sup> International Thermal Processing Conference, CCFRA, Campden UK. January 2008.
78. Sandeep K.P., Simunovic, J., Swartzel, K.R., **Truong, V.D.**, Cartwright, Jaykus, L-A., Lanier, T., Farkas, B., Hansen, A., Sanders, T., Drake, M.A. Continuous flow microwave processing. The NC-1023 Meeting, Penn State. October 2007.
79. Steed, L.E., **Truong, V.D.**, Kumar, P., Simunovic, J., Cartwright, G.D. and Swartzel, K.R. Microwave-assisted aseptic processing and packaging of purple-fleshed sweetpotato puree for functional foods. IFT Annual Meeting, Chicago. 2007.
80. Brinley, T.A., Stam, C. N., **Truong, V.D.**, Coronel, P., Kumar, P., Simunovic, J., Sandeep, K.P., Cartwright, G.D., Swartzel, K.R., and Jaykus, L.A. Feasibility of utilizing bio-indicators for testing microbial inactivation in sweetpotato purees processed with a continuous flow microwave system. IFT Annual Meeting, Chicago. 2007.
81. Whitson, M.E., **Truong, V.D.** and Drake, M.A. Sensory attributes and consumer acceptance of sweetpotato cultivars with varying flesh colors. IFT Annual Meeting, Chicago. 2007.
82. Kumar, P., Simunovic, J., Coronel, P.M., **Truong, V.D.**, Sandeep, K.P., Swartzel, K.R. and Strizak, Z. Determination of thermal conductivity and diffusivity of solid food ingredients at sterilization-level temperatures. IFT Annual Meeting, Chicago. 2007.
83. Corbitt, A.D., Allen, J.C. and **Truong, V.D.** Glycemic response to heated and raw sweetpotato. IFT Annual Meeting, Chicago. 2007.
84. Peters, T.B., Allen, J.C. and **Truong, V.D.** Amylase activity and inhibition from *Ipomea batatas* proteins. Federation of American Societies for Experimental Biology, Washington, DC. April 2007.

85. Allen, J.C., Zakir, S., Butt, M S., **Truong, V.D.** and McClelland J. Glycemic response to whole sweetpotato and sweetpotato components in diabetic and non-diabetic Pakistani subjects. Annual Meeting, Federation of American Societies for Experimental Biology (*FASEB J.* 21:847.24). 2007.
86. Simunovic, J. and **Truong, V.D.** Aseptic processing and packaging of sweetpotato purees. Sweetpotato Educational Meeting, NC Sweetpotato Commission, Wilson, NC. February 2007.
87. **Truong, V. D.**, Teow, C.C., McFeeters, R.F., Pecota, K. and Yencho, G.C.. Anthocyanin content and antioxidant activity of purple-fleshed sweetpotato collections. National Sweetpotato Collaborators Group, Annual Meeting, Mobile, Alabama. February 2007.
88. Yencho, C.G. and **Truong, V.D.** Nutritional enhancement of potatoes and sweetpotatoes. Conference on “The Role of Metabolics and Nutrigenomics in Creating Healthful Foods and Healthier Lives”, University of North Carolina at Charlotte. April 2007.
89. Coronel, P., **Truong, V.D.**, Kumar, P., Simunovic, J., Swartzel, K R., Cartwright, G. Microwave-assisted aseptic processing of vegetable purees: cross-sectional temperature profiles during heating and sterilization. IFT Annual Meeting, Orlando. 2006.
90. Coronel, P., Kumar, P., **Truong, V.D.**, Simunovic, J., Swartzel, K.R., Sandeep, K.P. Microwave-assisted aseptic processing: dielectric properties of vegetable purees under static and continuous flow conditions. IFT Annual Meeting, Orlando, June 24-26. 2006.
91. Brinley, T.A., **Truong, V.D.**, Coronel, P., Simunovic, J., Sandeep, K.P. Dielectric and thermal properties of sweetpotato purees as affected by chemical composition and microwave processing temperature. IFT Annual Meeting, Orlando. 2006.
92. Adu-Kwarteng, E., Ayernor, G.S., Sakyi-Dawson, E., Shih, F., Daigle, K., **Truong, V.D.** Influence of harvest age on amylase activity and pasting properties of selected sweetpotato cultivars. IFT Annual Meeting, Orlando. 2006.
93. Grabowski, J.A., **Truong, V.D.**, Daubert, C.R. Nutritional and rheological characterization of spray-dried sweetpotato powder. IFT Annual Meeting, Orlando. 2006.
94. Teow, C.C., **Truong, V.D.**, Thompson, R.L., McFeeters, R.F., Yencho, C.G. Antioxidant activity and anthocyanin content of raw and steamed purple-fleshed sweetpotatoes. IFT Annual Meeting, Orlando. 2006.
95. Dansby, M.Y., **Truong, V.D.**, Boyd, L.C. Optimization of accelerated solvent extraction of Muscadine grape seed antioxidants. IFT Annual Meeting, Orlando. 2006.
96. Allen, J.C., Butt, M.S., Clare, D.A., **Truong, V.D.** Components of North Carolina sweetpotato cultivars that lower blood glucose. IFT Annual Meeting, Orlando. 2006.
97. Simunovic, J. and **Truong, V.D.** Microwave technology for food processing applications. Pickle Packers International, Inc. Spring 2006 Meeting, Durham, NC. April 2006.
98. Teow, C.C., **Truong, V.D.**, McFeeters, R.F., Pecota, K.V., Yencho, G.C. Evaluating methods for assaying antioxidant capacity of sweetpotato genotypes. National Sweetpotato Collaborators Group, Annual Meeting, Orlando, Florida. February 2006.
99. Allen, J.C., Butt, M.S., Clare, D.A., **Truong, V.D.** Components of North Carolina sweet potato cultivars that lower blood glucose. Sweetpotato Educational Meeting, NC Sweetpotato Commission, Wilson, NC. February 2006.
100. Grabowski, J.A. and **Truong, V.D.** Spray drying of sweetpotato puree: Effects of alpha-amylase treatment, maltodextrin concentration, and drying conditions. IFT Annual Meeting, New Orleans. 2005.
101. Grabowski, J.A. and **Truong, V.D.** Processing of sweetpotato powders by spray drying. NSPCG. Little Rock, Arkansas. February 2005.
102. Adu-Kwarteng, E., Ayernor, G. S., Sakyi-Dawson, E.O., **Truong, V.D.**, Shih, F.F., and Daigle, K.W. Influence of harvest age on starch properties of selected high dry matter sweetpotato cultivars. IFT Annual Meeting, New Orleans. 2005.
103. Shih, F.F. and **Truong, V.D.** Physico-chemical properties of gluten-free pancakes from rice and sweetpotato flours. IFT Annual Meeting, New Orleans. 2005.

104. Teow, C.C., **Truong, V.D.**, McFeeters, R. F., and Yencho, G. C. Total antioxidant activity of sweetpotato cultivars with varying flesh colors. IFT Annual Meeting, New Orleans. 2005.
105. Drake M.A., **Truong, V.D.**, Kimber, J.W., Townley R., and Cafasso, N.J. Exploring consumer attitudes and acceptance of sweetpotato products. IFT Annual Meeting, July 12 - 16, Las Vegas, NV. 2004.
106. Coronel, P., **Truong, V.D.**, Simunovic, J., Sandeep, K.P., Cartwright, G.D. 2004. Technical feasibility in pasteurizing and sterilizing sweetpotato puree by continuous flow microwave reactors. IFT Paper No. 17H-3. 2004 IFT Annual Meeting, July 13-16, Las Vegas, NV.
107. Coronel, P., Simunovic, J., **Truong, V.D.**, and Sandeep, K P. 2003. Continuous flow microwave processing of pumpable foods: Feasibility testing sequence for sweetpotato puree. American Institute of Chemical Engineers Annual Meeting, November 16-21, San Francisco, CA.
108. **Truong, V.D.**, Clare, D.A., Catignani, G.L. and Swaisgood, H.E. 2002. Functionality of enzyme modified whey proteins. Annual Meeting, Southeast Dairy Foods Research Center, August 15-16, Raleigh, NC.
109. **Truong, V.D.**, Wang, Y.J. and Wang, L. 2002. Effects of acid hydrolysis on structure and rheological properties of corn starch. Presented at the Annual Meeting of the American Association of Cereal Chemists, October 13-17, 2002, Montreal, Canada.
110. **Truong, V.D.**, Janolino, V.G., Catignani, G.L. and Swaisgood, H.E. 2002. Molecular size and rheological characterization of whey proteins crosslinked by immobilized transglutaminase. Presented at the Annual Meeting of the American Dairy Science Association, July 21-25, 2002, Quebec City, Canada.
111. **Truong, V.D.** and Daubert, C.R. 2001. Rheological and textural properties of alginate-starch mixed gels: effects of starch type and concentration. Annual Meeting of the American Association of Cereal Chemists, October 14-18, 2001, Charlotte, NC.
112. **Truong, V.D.** and Daubert, C.R. 2000. Textural characterization of Cheddar Cheeses using the vane method: correlation with other instrumental and sensory measurements. Presented at the 2000 IFT Annual Meeting, Dallas, Texas, June 10-14, 2000.
113. Walter, W.M., **Truong, V.D.**, Simunovic, N. and McFeeters, R.F. 2000. Low temperature blanching of sweetpotatoes to improve firmness retention: effect on compositional and textural properties. Presented at the 2000 IFT Annual Meeting, Dallas, Texas, June 10-14, 2000.
114. **Truong, V.D.** and Daubert C.R. 1999. Comparative study of the vane method, torsion and compression in determining stress and strain of viscoelastic food gels. Presented at the 1999 IFT Annual Meeting, July 24-28, Chicago, Illinois.
115. Walter, W.M., **Truong, V.D.** and Espinel, K.R. 1999. Restructured sweetpotato fries: textural properties and product quality. Presented at the 1999 IFT Annual Meeting, July 24-28, Chicago, Illinois.
116. Walter, W.M. and **Truong, V.D.** 1999. Restructured sweetpotato French fries. Presented at the Annual Sweetpotato Research Collaborators, Jan. 30-31, Memphis, Tennessee.
117. **Truong, V.D.** and Daubert, C.R. 1998. Modeling deformation curves of viscoelastic solid foods measured with the vane method. Presented at the 1998 IFT Annual Meeting, June 20- 24, 1998, Atlanta, Georgia.
118. Drake, M.A., **Truong, V.D.** and Daubert, C.R. 1988. Development of cheese texture lexicon and correlation with rheological measurements. Presented at the 1988 IFT Annual Meeting, June 20-24, 1998, Atlanta, Georgia.
119. Walter, W.M.Jr., **Truong, V.D.**, Wiesenborn, D.P. and Carvajal, P. 1998. Rheological and physical properties of starches from sweetpotato cultivars and hybrids. Presented at the 1998 IFT Annual Meeting, June 20- 24, 1998, Atlanta, Georgia.
120. Walter, W.M.Jr. and **Truong, V.D.** 1998. Processing treatments for firmness retention in sweetpotato processed products. Presented at the Annual Sweetpotato Research Collaborators, Jan. 30-31, Little Rock, Arkansas.

121. **Truong, V.D.** and Walter, W.M.Jr. 1997. Low temperature blanching improves the firmness and sensory quality of processed sweetpotatoes. Presented at the 1997 IFT Annual Meeting, June 14-18, 1997, Orlando, Florida.
122. Walter, W.M.Jr., **Truong, V.D.** and Sylvia, K. E. 1997. Effects of puree preparation methods on the textural characteristics of a restructured sweetpotato product. Presented at the 1997 IFT Annual Meeting, June 14-18, 1997, Orlando, Florida.
123. Sylvia, K.E., Walter, W.M.Jr. and **Truong, V.D.** 1996. Rheological properties of sweetpotato purees from various cultivars/selections. Presented at the 1996 IFT Annual Meeting, June 22-26, 1996, New Orleans, Louisiana.
124. **Truong, V.D.**, Walter, W.M.Jr. and Sylvia, K.E. 1996. Development of convenience food products from sweetpotatoes through restructuring. Presented at the Annual Conference of the National Sweetpotato Collaborator Group, February 3-4, 1996, Greensboro, North Carolina.
125. Sylvia, K.E., Walter, W.M.Jr. and **Truong, V.D.** 1996. Use of an alkali-neutralization process to improve textural integrity of diced canned sweetpotatoes. Presented at the Annual Conference of the National Sweetpotato Collaborator Group, February 3-4, 1996, Greensboro, North Carolina.
126. **Truong, V.D.**, Walter, W.M.Jr. and Hamann, D.D. 1996. Textural properties of cooked sweetpotatoes: correlations of instrumental and sensory parameters. Presented at the 1996 IFT Annual Meeting, June 22-26, 1996, New Orleans, Louisiana.
127. Walter, W. M. Jr., **Truong, V.D.** and Sylvia, K. E. 1995. Texture control of processed sweetpotato products. Presented at the National Sweetpotato Collaborators Meeting, Jan. 28-30, 1995, New Orleans, Louisiana.
128. **Truong, V.D.**, Walter, W. M. Jr. and Giesbrecht, F. G. 1995. Texturization of sweetpotato puree with alginate: optimization by response surface methodology. Presented at the 1995 IFT Annual Meeting, June 3-7, 1995, Anaheim, California.
129. Walter, W.M.Jr., **Truong, V.D.** and Sylvia, K.E. 1994. Creating new markets with restructured sweetpotatoes. Presented at the 32nd Annual Meeting of the North Carolina Sweetpotato Commission, January 20, 1994, Wilson, North Carolina.
130. **Truong, V.D.** and Walter, W.M.Jr. 1994. Simulated baked sweetpotatoes texturized with cellulose derivatives. Presented at the 1994 IFT Annual Meeting, June 25-29, 1994, Atlanta, Georgia.
131. Walter, W.M.Jr., **Truong, V.D.** and Sylvia, K.E. 1994. Control of the texture of processed sweetpotato products. Presented at the Tenth Symposium of the International Society for Tropical Root Crops, November 14-18, 1994, Bahia, Brazil.
132. Amestoso, F.G., **Truong, V.D.** and Dignos, A.L. 1992. Processing dried cassava grates for food utilization. Presented at the Fourth ASEAN Food Conference, February 16-20, Jakarta, Indonesia.
133. Castanares, J.G. and **Truong, V D.** 1991. Extraction and characterization of pectin from sweetpotato. Presented at the Thirtieth Annual Convention of the Philippine Association of Food Technologists, November 14-15, 1991, Manila.
134. **Truong, V.D.**, Fementira, G.B. and Caverro, A.I. 1991. Processing and sensory evaluation of sweetpotato leather. Presented at the Eighth World Congress of Food Science and Technology, September 29-October 4, 1991, Toronto, Canada.
135. **Truong, V.D.**, Fementira, G.B. and Caverro, A.I. 1991. Quality characteristics and consumer acceptance of sweetpotato jam. Presented at the Eighth World Congress of Food Science and Technology, September 29-October 4, 1991, Toronto, Canada.
136. **Truong, V.D.** 1991. Development and transfer of sweetpotato processing technologies in the Philippines. Presented at the Ninth Symposium of the International Society for Tropical Root Crops, October 20-26, 1991, Accra, Ghana.
137. Abit, M. E. M. and **Truong, V.D.** 1990. Physicochemical characteristics of root crop starches and their effects on quality of transparent noodles. Presented at the Twenty Ninth Annual Convention of the Philippine Association of Food Technologists, November 14-15, 1990, Manila, Philippines.



138. **Truong, V.D.**, Cavero, A.I., Fementira, G.B. and Amestoso, F.G. 1990. Formulation and consumer acceptance of sweetpotato catsup. Presented at the Twenty Ninth Annual Convention of the Philippine Association of Food Technologists, November 14-15, 1991, Manila, Philippines.
139. **Truong, V.D.** and Fementira, G.B. 1989. Fruity-food products from sweetpotato: technological developments. Presented at the National Sweetpotato Seminar-Workshop, June 1-3, 1989, VISCA, Philippines.
140. **Truong, V.D.** 1989. Status and potential of root crop processing industry in the Philippines. Presented at the National Socio-Economic Workshop on Root Crops, March 16-18, 1989, Manila, Philippines.
141. **Truong, V.D.** 1988. Status and plans for sweetpotato technology transfer in the Philippines. Presented at the Southeast Asian Program for Potato R&D (SAPPRAD) Meeting on Sweetpotato, November 6-7, 1988, Bangkok, Thailand.
142. **Truong, V.D.**, Guarte, R.C., Cerna, P.F. and Tabianan, I.C. 1988. Development of small scale technology for dehydrated sweetpotato cubes for traditional food preparations. Presented at the Eighth Symposium of the International Society for Tropical Root Crops, October 31-November 5, 1988, Bangkok, Thailand.
143. **Truong, V.D.**, Biermann, C. and Marlett, J.A. 1985. Analysis of soluble carbohydrates in sweetpotatoes by HPLC. Presented at the 1985 ASEAN Food Conference, February 18-23, 1985, Manila, Philippines.
144. **Truong, V.D.** 1985. Coco-crisps: a new food product from young coconut endosperm. Presented at the National Symposium on Coconut Meat and Oil Processing, December 12-14, 1985, Manila, Philippines.
145. **Truong, V.D.** 1984. Root crop processing and utilization. Presented at the Food Processing R&D Seminar-Workshop, PCARRD-USAID, May 7-9, 1984, Tagaytay City, Philippines.
146. **Truong, V.D.** 1983. Food processing Research and Development at ViSCA. Presented at the Consultation Meeting on Food Processing Research, September 15-16, 1983, PCARRD, Los Banos, Philippines.
147. **Truong, V.D.** and del Rosario, E.J. 1982. Alcohol production from cassava using immobilized yeasts. UNESCO Regional Workshop on Technology of Fuel Alcohol Production, October 25-29, 1982, Los Banos, Philippines.
148. Mendoza, E.M T., Laurena, A.C. and **Truong, V.D.** 1982. Chemical and nutritional evaluation of several Philippine indigenous food legumes. Presented at the International Conference on Chemistry and World Food Supplies: The New Frontiers, CHEMRAWN II, December 6-10, 1982, Manila, Philippines.
149. **Truong, V.D.**, Raymundo, L.C. and Mendoza, E.M.T. 1981. Lipoxygenase in germinating winged bean seeds and its role in the off-flavor formation. Presented at the Second International Seminar on Winged Bean, January 19-23, 1981, Colombo, Sri Lanka.
150. **Truong, V.D.**, Raymundo, L.C. and Mendoza, E.M.T. 1980. Cowpea lipoxygenase. Presented at the Annual Meeting of the Philippine Crop Science Society, April 27-29, 1980, Visayas State College of Agriculture, Leyte, Philippines.

## **j. Popular Articles related to the Developed Technologies**

Launch of the microwave processing technology for aseptic sweetpotato puree – Kenya, CIP (International Potato Center), October 25, 2022 <https://cipotato.org/event/launch-microwave-processing-technology-aseptic-sweetpotato-puree-kenya/>

The Making of Good Sweet Potato, USDA-ARS Blog, Research and Science, November 06, 2018 <https://www.usda.gov/media/blog/2018/11/06/makings-good-sweet-potato>

New Process Quickly Analyzes Acrylamide in French Fries, Agricultural Research Magazine, USDA-ARS, November 30, 2016

<https://www.ars.usda.gov/news-events/news/research-news/2016/new-process-quickly-analyzes-acrylamide-in-french-fries/>

Puree-processing Technology Expands into New Markets, Agricultural Research Magazine, USDA-ARS, February 2014 Issue <https://agresearchmag.ars.usda.gov/2014/feb/purees> ;

<https://www.ars.usda.gov/news-events/news/research-news/2014/puree-processing-technology-expands-into-new-markets/>

Sweet Potato Puree Adds to Bottom Line, Agricultural Research Magazine, USDA-ARS, March 26, 2008

<https://www.ars.usda.gov/news-events/news/research-news/2008/sweet-potato-puree-adds-to-bottom-line/>

ARS Scientists Honored for Technology Transfer Efforts, ARS Research News, June 10, 2010

<https://www.ars.usda.gov/news-events/news/research-news/2010/ars-scientists-honored-for-technology-transfer-efforts/>

North Carolina State University News, College of Agricultural and Life Science:

Orange Gold- CALS technology adds value to the sweet potato - August 29, 2014

<https://cals.ncsu.edu/news/orange-gold/>

“CARL is part of award-winning research project”, November 14, 2013

<https://cals.ncsu.edu/news/cals-is-part-of-award-winning-research-project/>

New use for N.C. sweet potatoes: Dried products for pet food, animal feed, July 11, 2011

<https://cals.ncsu.edu/news/new-use-for-n-c-sweet-potatoes-dried-products-for-pet-food-animal-feed/>

A ‘win-win-win’ combination, (ribbon cutting at a sweet potato processing plant in Snow Hill, NC), Spring 2008, [https://projects.ncsu.edu/cals/agcomm/magazine/spring08/n\\_combination.html](https://projects.ncsu.edu/cals/agcomm/magazine/spring08/n_combination.html)