

CURRICULUM VITAE LAVANYA REDDIVARI

Department of Food Science
Purdue University
West Lafayette, IN 47906
Phone: (765) 496-6102
Email: lreddiva@purdue.edu

Education

Ph. D. Texas A&M University (TAMU), College Station, TX, USA
Specialization: Specialty Potato Bioactive Compounds and Prostate Cancer Prevention

M. S. Kerala Agricultural University, Kerala, India
Specialization: Biotechnology

B. S. Acharya N.G. Ranga Agricultural University, Hyderabad, India
Specialization: Horticulture

Professional Experience

- 2018 - Present - **Assistant Professor**
Department of Food Science
Purdue University (PU), West Lafayette, IN
- 2013 - 18 **Assistant Research Professor**
Department of Plant Science
Pennsylvania State University (PSU), State College, PA
- 2011 - 13 **USDA- NIFA Post-Doctoral Fellow**
Department of Food Science and Human Nutrition, CSU
- 2008 - 11 **Post-Doctoral Research Associate**
Department of Food Science and Human Nutrition, CSU
- 2007 - 08 **Research Scientist/Lecturer**
Department of Horticultural Sciences, TAMU
- 2002 - 07 **Graduate Research Assistant**
Department of Horticultural Sciences, TAMU

Academic Distinctions

- PhD
- **Distinguished Graduate Student** for Excellence in Doctoral Research - 2007, Association of Former Students, Texas A&M University
 - **Tom Slick Senior Graduate Fellow** for outstanding accomplishments during the first two years of graduate school at TAMU – 2005-2006
- MS
- **First rank** in the Horticulture program at Kerala Agricultural University (KAU), Thrissur, Kerala, India
 - KAU merit scholar for outstanding academic performance
- BS
- **First rank** in the Undergraduate Horticulture program at Acharya N. G. Ranga Agricultural University

- Awarded "**Dr. L. Venkataratnam Gold Medal**" at 31st annual convocation for securing highest O.G.P.A. (4.0/4.0) in B.Sc. (Horticulture)

Awards and Honors

- American Journal of Potato Research Outstanding Paper of the Year 2010 Award - 2011
- Krezdorn Award for the Outstanding Paper, Southern Region ASHS - 2010
- Krezdorn Award for Excellence in Doctoral Research and Writing, Southern Region ASHS - 2008
- Graduate Student Research and Presentation Grant, Office of Graduate Studies, TAMU - 2005
- Association of Agricultural Scientists of Indian Origin, (AASIO-USA) **Outstanding Graduate Student Award** - 2005
- Elected as International Student Mentor, International Student Services. Providing a positive and welcoming experience for new international students and supporting them in their adjustment to the U.S. by helping them get involved in campus activities - 2005
- 1st place - Graduate Student Paper Competition, 89th Annual Meeting of Potato Association of America, Calgary, Alberta, Canada - 2005
- National Potato Council **Women's Auxiliary Scholarship**, NPC - 2005
- The Margaret Plum Scholarship in recognition of outstanding accomplishments and scholastic achievements in Horticulture, Department of Horticultural Sciences, TAMU - 2005
- 1st place - Student Research Week Competition, Life Sciences, TAMU - 2005
- 2nd place - Warren S. Barham Ph.D. Graduate Student Paper Competition, Southern Region - ASHS Annual Meeting, Little Rock, Arkansas - 2005
- International Education Study Grant, IPECC, TAMU - 2004
- Horticulture Graduate Council Scholarship, HGC - 2004
- Career Enhancement Scholarship, Department of Horticultural Sciences, TAMU – 2004, 2005 & 2006
- Fellow of Graduate Teaching Academy, TAMU - 2004
- Summer Assistantship, Department of Horticultural Sciences, TAMU - 2003, 2004 & 2006

Professional Affiliations

- American Society for Microbiology
- American Society for Nutrition
- Institute of Food Technologists
- Potato Association of America

Publications (*equal first authorship)

1. Sidorov E, Bejar C, Xu C, Ray B, Reddivari L, Chainakul J, Vanamala JKP, Sanghera DK. 2020. Potential metabolite biomarkers for acute versus chronic stage of ischemic stroke: A pilot study. *J Stroke Cerebrovascular Dis*, 104618
2. Radcliffe JS, Brito LF, Reddivari L, Schmidt M, Herman EM, and Schinckel AP. 2019. A swine model of soy protein-induced food allergy: implications in human and swine nutrition. *Animal Frontiers*. 9:52-59
3. Li S, Wu B, Fu W, and Reddivari L. 2019. The anti-inflammatory effects of dietary anthocyanins against ulcerative colitis. *Int J Mol Sci*. 20:2588.
4. Zinati G, Reddivari L, Kemper D. 2019. Reduced-tillage increases nutrient concentrations in stored winter squash: α -carotene, lutein, phosphorus and calcium.

<https://rodaleinstitute.org/science/articles/reduced-tillage-increases-nutrient-concentrations-in-stored-winter-squash/>

5. Reddivari L, Wang T, Wu B, and Li S. 2019. Potato: An anti-inflammatory food?. *Am J Potato Res*: 96(2):164-169.
6. Vanamala JKP, Massey AR, Pinnamaneni SR, Reddivari L, and Reardon KF. 2018. Grain and sweet sorghum (*Sorghum bicolor* L. Moench) serve as a novel source of bioactive compounds for human health. *Critical Rev Food Sci Nutr*. 1-15.
7. Reddivari, L., Veeramachaneni DNR, Walters, W., Lozupone, C., Palmer, J., Hewage MKK, Bhatnagar, R., Amir, A., Kennett, M. J., Knight, R., & Vanamala JKP (2017). Perinatal Bisphenol A Exposure Induces Chronic Inflammation in Rabbit Offspring via Modulation of Gut Bacteria and Their Metabolites. *mSystems*, 2(5).
8. Reddivari L, Sapkota BR, Rudraraju A, Liang Y, Aston CE, Sidorov E, Vanamala JKP, & Sanghera DK. 2017. Metabolite signatures of diabetes and cardiovascular disease: a pilot investigation. *Metabolism*. 13:154.
9. Charepalli V, **Reddivari L***, Radhakrishnan S, Eriksson E, Xiao X, Kim SW, Shen F, Vijay-Kumar M, Li Q, Bhat VB, Knight R, Vanamala J. 2017. Pigs, unlike mice, have two distinct colonic stem cell populations similar to humans that respond to high-calorie diet prior to insulin resistance. *Cancer Prevention Research*. 10(8), 442-450.
10. Bowen KJ, Kris-Etherton PM, Shearer GC, West SG, **Reddivari L**, Jones PJH. 2017. Oleic acid-derived oleoylethanolamide: A nutritional science perspective. *Prog Lipid Res*. 67:1-15.
11. Farook VS, **Reddivari L**, Mummidi S, Puppala S, Arya R, Fowler SP, Chittoor G, Resendez RG, Comuzzie AG, Curran JE, Lehman DM, Jenkinson CP, Lynch JL, DeFronzo RA, Blangero J, Hale DE, Duggirala R, Vanamala J. 2017. Genetics of serum carotenoid levels and their correlation with obesity-related traits in Mexican American children. *Am J Clin Nutr*. 106(1):52-58
12. Sido A, Radhakrishnan S, Eriksson E, Kim SW, Bhat V, **Reddivari L**, Vanamala J. 2017. Purple-fleshed potatoes, even after baking, protect against high-calorie diet induced colonic inflammation via modulation of IL-6 signaling in a human-relevant porcine model. *J Nutr Biochem*. 43: 11-17.
13. **Reddivari L**, Charepalli V, Radhakrishnan S, Vadde R, Elias R, Lambert J, Vanamala J. 2016. Dietary grape compounds suppress oncogenic stem cells in a mouse model of chemically-induced colon cancer. *BMC Complement Altern Med*. 16:278
14. Massey AR, **Reddivari L***, Radhakrishnan S, Karunathilake E, Vanamala J. 2016. Pro-apoptotic activity against cancer stem cells differs between different parts of sweet sorghum. *J Funct Foods*. 23:601-613
15. Vadde R, Radhakrishnan S, Karunathilake E, **Reddivari L**, Vanamala J. 2015. Indian gooseberry (*Emblica officinalis* Gaertn.) suppresses cell proliferation and induces apoptosis in human colon cancer stem cells independent of p53 status via suppression of c-Myc and cyclin D1. *J Funct Foods*. 25:267-278
16. Charepalli V, **Reddivari L**, Vadde R, Walia S, Radhakrishnan S, Vanamala J. 2016. *Eugenia jambolana* (Java Plum) fruit extract exhibits anti-cancer activity against early stage human HCT-116 colon cancer cells and colon cancer stem cells. *Cancers* 8(3): pii E29
17. Charepalli V, **Reddivari L***, Radhakrishnan S, Vadde R, Agarwal R, Vanamala J. 2015. Anthocyanin-containing purple-fleshed potatoes suppress colon tumorigenesis via elimination of colon cancer stem cells. *J Nutr Biochem* 26(12): 1641-1649

18. Blessington T, Scheuring DC, Nzaramba MN, Hale AL, **Reddivari L**, Vestal TA, Maxim JE, Miller Jr. JC. 2015. The use of low-dose electron beam irradiation and storage conditions for sprout control and their effects on xanthophylls, anti-oxidant capacity, and phenolics in the potato cultivar Atlantic. *Am J Potato Res* 92:609-618
19. Dadresan M, Luthe DS, **Reddivari L**, Chaichi MR, Yazdani D. 2015. Effect of Salinity Stress and Surfactant Treatment on Physiological Traits and Nutrient Absorption of Fenugreek Plant. *Commun Soil Sci Plan* 46(22): 2807-2820
20. Guard B, Barr J, **Reddivari L**, Klemashevich C, Jayaraman A, Steiner J, Vanamala J, Suchodolski J. 2015. Characterization of Microbial Dysbiosis and Metabolomic Changes in Dogs with Acute Diarrhea. *PLoS ONE* 10(5):e0127259
21. Vadde R, Radhakrishnan S, **Reddivari L**, Vanamala J. 2015. Triphala extract suppresses proliferation and induces apoptosis in human colon cancer stem cells via suppressing c-Myc/Cyclin D1 and elevation of Bax/Bcl2 ratio. *Biomed Res Int* 2015:649263
22. Farook VS, **Reddivari L***, Chittoor G, Puppala S, Arya R, Fowler SP, Hunt KJ, Curran JE, Comuzzie AG, Lehman DM, Jenkinson CP, Lynch JL, DeFronzo RA, Blangero J, Hale DE, Duggirala R, Vanamala J. 2015. Metabolites as novel biomarkers for childhood obesity-related traits in Mexican American children. *Pediatr Obes* 10(4):320-327
23. Amer FS, **Reddivari L***, Madiwale G, Stone M, Holm DG, Vanamala J. 2014. Effect of genotype and storage on glycoalkaloid and acrylamide content and sensory attributes of potato chips. *Am J Potato Res* 91(6):632-641
24. Massey AR, **Reddivari L***, Vanamala J. 2014. The Dermal Layer of Sweet Sorghum (*Sorghum bicolor*) Stalk, a Byproduct of Biofuel Production and Source of Unique 3-Deoxyanthocyanidins, has more Anti-proliferative and Pro-apoptotic Activity than Pith in p53 Variants of HCT116 and Colon Cancer Stem Cells. *J Agric Food Chem* 62:3150-3159
25. Ursell LK, Haiser HJ, Treuren WV, Garg N, **Reddivari L**, Vanamala J, Dorrestein PC, Turnbaugh PJ, Knight R. 2014. The intestinal metabolome: An intersection between microbiota and host. *Gastroenterology* 146(6):1470-1476
26. Kasdagly M, Radhakrishnan S, Veeramachaneni DNR, **Reddivari L**, Vanamala J. 2014. Colon Carcinogenesis: Influence of Western Diet-induced Obesity and Targeting Stem Cells Using Dietary Bioactive Compounds. *Nutrition* 30 (11-12):1242-1256
27. Henley T, **Reddivari L***, Broeckling CD, Bunning M, Miller J, Avens JS, Stone M, Prenni JE, Vanamala J. 2014. American India Pale Ale rich in xanthohumol is potent in suppressing proliferation and elevating apoptosis of human colon cancer cells. *Int J of Food Sci & Tech* 49(11):2464-2471
28. Madiwale G, **Reddivari L***, Holm DG, Vanamala J. 2012. Combined effects of storage and processing on the bioactive compounds and pro-apoptotic properties of color-fleshed potatoes in human colon cancer cells. *J Agric Food Chem* 60(44):11088-96.
29. Vanamala J, Kester AC, Heuberger AL, **Reddivari L**. 2012. Mitigation of obesity-promoted diseases by *Nigella sativa* and thymoquinone. *Plant Foods Hum Nutr.* 67:111-119
30. Madiwale G, **Reddivari L***, Holm DG, Vanamala J. 2011. Storage elevates phenolic content and antioxidant activity but suppresses antiproliferative and pro-apoptotic properties of colored-flesh potatoes against human colon cancer cell lines. *J Agric Food Chem* 59:8155-8166
31. Vanamala J, Radhakrishnan S, **Reddivari L**, Andy P. 2011. Resveratrol suppresses human colon cancer cell proliferation and induces apoptosis via targeting the pentose phosphate and the talin-FAK signaling pathways - A proteomic approach. *Proteome Sci* 9:49

32. Radhakrishnan S, **Reddivari L**, Vanamala J. 2011. Resveratrol potentiates grape seed extract induced human cancer cell apoptosis. *Front Biosci (Elite Ed)*. 1:1509-1523
33. Blessington T, Nzaramba MN, Scheuring DC, Hale AL, **Reddivari L**, Miller Jr. JC. 2010. Cooking methods and storage treatments of potato (*Solanum tuberosum* L.): Effects on carotenoids, antioxidant activity and phenolics. *Am J Potato Res* 87:479-491
34. **Reddivari L**, Vanamala J, Safe SH, Miller Jr. JC. 2010. The bioactive compounds alpha - chaconine and gallic acid in potato extracts decrease survival and induce apoptosis in LNCaP and PC3 prostate cancer cells. *Nutr Cancer* 62(5):601-610
35. Vanamala J, **Reddivari L**, Radhakrishnan S, Tarver CC. 2010. Resveratrol suppresses IGF-1 induced human colon cancer cell proliferation and elevates apoptosis via activation of p53 and suppression of IGF-1R/Wnt signaling pathways. *BMC Cancer* 10(1):238-246.
36. Nzaramba MN, **Reddivari L**, Bamberg J, Miller Jr. JC. 2009. Anti-proliferative activity and cytotoxicity of *Solanum jamesii* tuber extracts on human colon and prostate cancer cells. *J Agric Food Chem* 23; 57(18):8308-15
37. Hale AL, **Reddivari L**, Nzaramba MN, Bamberg J, Miller Jr. JC. 2008. Interspecific variability for antioxidant activity and phenolic content among *Solanum* species. *Am J Potato Res* 85(5):332-341
38. **Reddivari L**, Vanamala J, Safe SH, Miller Jr. JC. 2007. Anthocyanin fraction from potato extracts is cytotoxic to prostate cancer cells through activation of caspase-dependent and caspase-independent pathways. *Carcinogenesis* 28(7): 2227-2235
39. **Reddivari L**, Hale AL, Miller Jr. JC. 2007. Genotype and location influences antioxidant activity, phenolic content, carotenoid content and phenolic composition in specialty potatoes. *J Agric Food Chem* 55(20): 8073-8079
40. **Reddivari L**, Hale AL, Miller Jr. JC. 2007. Determination of phenolic content, composition and their contribution to antioxidant activity in specialty potato selections. *Am J Potato Res* 84 (4): 275-282
41. Blessington T, Miller Jr. JC, Nzaramba MN, Hale AL, **Reddivari L**, Scheuring DC, Hallman GJ. 2007. The effects of low-dose gamma radiation and storage time on carotenoids, antioxidant activity, and phenolics in potato cultivar Atlantic. *Am J Potato Res* 84 (2):125-131
42. Vanamala J, **Reddivari L**, Yoo KS, Pike LM, Patil BS. 2006. Variation in the content of bioactive flavonoids in different brands of orange and grapefruit juices. *J Food Comp Anal* 19(2-3): 157-166

Book Chapters

Vanamala J, Radhakrishnan S, **Reddivari L**, Massey A. Anthocyanins as apoptotic agents. *In: Novel Apoptotic Regulators in Carcinogenesis*. Chen G, Lai P, Editors. Springer Press, New York, NY. 2012, pp. 93-122.

Presentations and Abstracts (* Presenter)

1. Li S, Wang T, **Reddivari L***. 2019. Purple-fleshed potato anthocyanins attenuate DSS-induced colitis in an intestinal microbiota dependent manner. *Natural Products and Bioactive Compounds*, Gordon Research Conference, July 28 – August 2, Andover, NH
2. Indukuri V*, Mason M, **Reddivari L**, Lambert J, Vanamala J. 2019. Anti-inflammatory Effect of Table Grapes in Apc(Min/+) Mouse Model of Intestinal Tumorigenesis. *FASEB J* 33:872.2

3. Bao Y*, **Reddivari L**, Huang JY. 2020. Enhancement of phenolic compounds extraction from tomato pomace by high voltage atmospheric cold plasma. International Union of Food Science and Technology. August 17 – 20, Auckland, New Zealand.
4. Cladis DP*, Li S, **Reddivari L**, Cox A, Ferruzzi MG, Weaver CM. 2020. A 90d subchronic toxicity evaluation of blueberry polyphenols in ovariectomized Sprague-Dawley rats. Society of Toxicology. March 15 – 19, Anaheim, CA
5. Mummidi S*, Hernandez-Ruiz J, Farook VS, **Reddivari L**, Diaz-Badillo A, Fowler SP, Chittoor G, Resendez RG, Akhtar F, Lehman DM, Jenkinson CP, Arya R, Lynch JL, DeFronzo RA, Hale DE, Blangero J, Vanamala JK, Lopez-Alvarenga JC, Duggirala R, Prediction of Insulin Sensitivity Using Serum Carotenoid Concentrations and Pediatric Metabolic Index in Mexican American Children, American Diabetes Association, Jun 7-11, 2019, San Francisco, CA.
6. Bowen KJ*, Kris-Etherton PM, Reddivari L. 2019. Effects of diets that vary in fatty acid composition on fecal short-chain fatty acid levels and their relationship with circulating lipids and lipoproteins, American Heart Association Epi/Lifestyle meeting. Circulation 139:P293
7. Beaver BM*, Indukuri V, Bejar C, Sanghera D, Reddivari L, Apple B, Xu C, Ray B, Vanamala JK, Sidorov E. Metabolic biomarker predictors of infarct size in acute ischemic stroke. International Stroke Conference, Feb 6-8, 2019, Honolulu, Hawaii. Stroke 50(Supp_1) ATP251
8. **Reddivari L***, Wang T, Li S, Vanamala JKP. Gut Bacteria is Essential for the Anti-colitic Activity of Anthocyanin-containing Color-fleshed Potatoes. USDA Project Directors Meeting, 2018, Boston, MA
9. **Reddivari L***, Vanamala J, Vijay-Kumar M, Kennett MJ. Potato Anthocyanins Attenuate Inflammation in a Mouse Model of Colitis. USDA Project Directors Meeting, June 24, 2017, Las Vegas, NV
10. **Reddivari, L***. Purple Potato Bioactives and Microbiota in Gut Health. Nutritional Sciences Fall 2017 Colloquium Series. October 30, 2017. University Park, PA
11. **Reddivari, L***. How do plant genetic variation influence microbiome composition/function?," Apple Phytobiome Workshop, 2017. Penn State Microbiome Center, University Park, PA
12. Vanamala J*, Sido A, Eriksson E, Kim SW, Bhat V, Radhakrishnan S, **Reddivari L**. High-Calorie Diet Induced Chronic Colonic inflammation: A Human-Relevant Porcine Model to Assess Whole Food Approach to Reduce Colon Cancer Risk. Experimental Biology, April 2-6, 2016, San Diego, CA.
13. **Reddivari L***, Bhatnagar R, Massey A, Vanamala J. Sweet Sorghum (*Sorghum bicolor*) Stalk Extract, a Byproduct of Biofuel Production, Ameliorates Systemic Oxidative Stress in a Murine Model of High-Caloric Diet-Induced Obesity. Experimental Biology, April 2-6, 2016, San Diego, CA.
14. Charepalli V*, Vadde R, **Reddivari L**, Vanamala J. Novel molecular insights for anti-colon cancer efficacy of purple-fleshed potatoes – A proteomics approach. PAA Annual Meeting. July 30-August 4, 2016, Grand Rapids, MI. (*Oral presentation - 1st Prize in Frank L. Haynes Graduate Student Research Competition*).
15. Diego VP*, Vanamala J, Farook VS, **Reddivari L**, Fowler SP, Puppala S, Chittoor G, Resendez RG, Alvarenga JCL, Mummidi S, Almasy L, Curran JE, Comuzzie AG, Lehman DM, Jenkinson CM, Jane L. Lynch JL, DeFronzo RA, Blangero J, Hale DE, Duggirala R, Arya R. 2016. Genotype-by-multivariate dietary environment interaction effects on cardiometabolic risk factors in Mexican American children: The SAFARI Study. American Society for Human Genetics, October 18-22, Vancouver, Canada.

16. **Reddivari L***, Ursell L, Charepalli V, Radhakrishnan S, Kim S.W, Bhat V, Knight R, Vanamala J. 2016. Does the effect of cultivar and processing on the potato metabolome manifest in mammalian proteome and suppression of chronic inflammation? PAA Annual Meeting, July 30-August 4, 2016, Grand Rapids, MI.
17. Charepalli V*, Bhat V, **Reddivari L**, Vanamala J. Novel method to process proteomics data to identify the pathways associated with the anti-colon cancer properties of baked anthocyanin-rich purple-fleshed potato in mice. ASMS Conference on Mass Spectrometry. June 5 - 9, 2016, San Antonio, TX
18. Sapkota BR*, Vanamala J, **Reddivari L**, Liang L, Sanghera DK. Identification of novel metabolites associated with stroke in a population of Asian Indian descent. 19th workshop of the International Stroke Genetics Consortium, Broad Institute. April 28-29, 2016, Boston, MA
19. Charepalli V*, **Reddivari L**, Vadde R, Vanamala J. Grape compounds suppress colon cancer stem cells in vitro and in a rodent model of colon carcinogenesis. American Association of Cancer Research Annual Meeting. April 16 - 20, 2016, New Orleans, LA
20. Sido A, Eriksson E, Kim SW, Bhat V, Radhakrishnan S, **Reddivari L**, Vanamala J*. High-Calorie Diet Induced Chronic Colonic inflammation: A Human-Relevant Porcine Model to Assess Whole Food Approach to Reduce Colon Cancer Risk. Experimental Biology, April 2 - 6, 2016, San Diego, CA
21. **Reddivari L***. Potatoes, processing, and pigs: Post-doctoral fellowship. USDA NIFA Fellowship Project Directors' Meeting, August 4-5, 2015, Washington DC.
22. **Reddivari L***. Natural variability in anti-inflammatory compounds in food crops. Food Systems Approach to Gut Health Conference, May 10-11, 2015, PSU, University Park, PA.
23. **Reddivari L***, Walters T, Palmer J, Veeramachaneni R, Knight R, Vanamala J. Impact of perinatal bisphenol A exposure on colonic inflammation, gut bacteria and metabolome in rabbits. Experimental Biology, March 28 – April 1, 2015, Boston, MA.
24. Charepalli V*, Radhakrishnan S, Bhat V B, **Reddivari L**, Vanamala J, Proteomic profiling of colonic mucosa to study the anti-cancer properties of baked anthocyanin-rich purple-fleshed potato in mice. American Society for Mass Spectrometry. May 31 – June 4, 2015, St. Louis, MI
25. **Reddivari L***, Radhakrishnan S, Kim SW, Ursell L, Knight R, Vanamala J. High-fat diet reduces the formation of indole-3-propionic acid, an anti-oxidant bacterial metabolite, in porcine models Keystone symposium, Big Sky, MT, April 1, 2014.
26. Markham L*, **Reddivari L**, Ursell L, Holm D, Ziegler G, Knight R, Vanamala J. Potatoes can't take the heat: Effects of cultivar and processing on global metabolite/nutritional profiles. Pennsylvania State University, Center for Food Manufacturing Poster Session, October 30,, 2014, University Park, PA.
27. Sido A*, Radhakrishnan S, Eriksson E, Kim SW, **Reddivari L**, Vanamala J. Purple and white potatoes, even after processing, suppress colonic interleukin-6 expression, a pro-inflammatory cytokine, in a high-fat consuming pig model. Pennsylvania State University, Center for Food Manufacturing Poster Session, October 30, 2014, University Park, PA.
28. Charepalli V*, **Reddivari L**, Vadde R, Vanamala J. Purple-fleshed potatoes, even after processing suppress oncogenic colon stem cells via Wnt/ β -catenin regulation in vitro and in vivo. Pennsylvania State University, Center for Food Manufacturing Poster Session, October 30,, 2014, University Park, PA.
29. Markham L*, **Reddivari L**, Ursell L, Holm D, Ziegler G, Knight R, Vanamala J. Potatoes can't take the heat: Effects of cultivar and processing on global metabolite/nutritional profiles. Potato

Association of America, July 27 – 31, 2014, Spokane, WA. (*Oral presentation - 1st Prize in Frank L. Haynes Graduate Student Research Competition*).

30. Sido A*, Radhakrishnan S, Eriksson E, Kim SW, **Reddivari L**, Vanamala J. Purple and white potatoes, even after processing, suppress colonic interleukin-6 expression, a pro-inflammatory cytokine, in a high-fat consuming pig model. Potato Association of America, July 27 – 31, 2014, Spokane, WA. (*Oral presentation - 3rd Prize in Frank L. Haynes Graduate Student Research Competition*).
31. Charepalli V, Vadde R, **Reddivari L***, Vanamala J. Purple-fleshed potato, even after processing, suppresses human colon cancer stem cell growth in vitro independent of p53. Potato Association of America, July 27 – 31, 2014, Spokane, WA.
32. Sido A*, Radhakrishnan S, Eriksson E, Kim SW, **Reddivari L**, Vanamala J. Purple and white potatoes, even after processing, suppress colonic interleukin-6 expression, a pro-inflammatory cytokine, in a high-fat consuming pig model. Pennsylvania State University, Gut Microbiome Workshop, May 21, 2014, University Park, PA.
33. Markham L*, **Reddivari L**, Ursell L, Holm D, Ziegler G, Knight R, Vanamala J. Not all potatoes are created equal: The effects of processing and cultivar on potato nutrient profile. Penn State University Gamma Sigma Delta Research Exposition, March 2014, University Park, PA.
34. Charepalli V*, **Reddivari L**, Vadde R, Vanamala J. Purple-fleshed potatoes, even after processing suppress oncogenic colon stem cells via Wnt/ β -catenin regulation in vitro and in vivo. National Center for Regenerative Medicine Cancer Stem Cell Conference, August 18 -20, 2014, Cleveland, OH.
35. Radhakrishnan S*, Kim SW, **Reddivari L**, Vanamala J. Purple-fleshed potato, even after processing, prevents and reverses high-fat diet elevated colonic-mesenteric fat-systemic inflammation cascade in pig model. Experimental Biology, April 26-30, 2014, San Diego, CA.
36. Vanamala J*, Radhakrishnan S, Eriksson E, Charepalli V, Kim SW, **Reddivari L**. High-fat diet induced expansion of colon crypt epithelial proliferative zone towards lumen correlates with elevated innate inflammatory markers in the human-relevant porcine model. Experimental Biology, April 26-30, 2014, San Diego, CA.
37. Radhakrishnan S*, Bhat V, Kim SW, Ptitsyn A, **Reddivari L**, Vanamala J. Proteomic profiling of pig colon mucosa to study the effect of consuming anthocyanin-rich purple-fleshed potatoes. ASMS Conference on Mass Spectrometry, June 15 – 19, 2014, Baltimore, MD.
38. **Reddivari L***, Kim SW, Radhakrishnan S, Yang P, Knight R and Vanamala J. Purple-fleshed potatoes suppress colon-systemic oxidative stress/inflammatory markers via alternations in the gut bacterial signature FASEB J, April 27, 2013; 27:1056.9.
39. **Reddivari L***, Radhakrishnan S, Shah S and Vanamala J. Metabolomic Profiling of Obese Pig Colon Mucosa and Fecal Samples to Study the Effect of Consuming Anthocyanin-rich Color-fleshed Potatoes. American Conference on Mass Spectrometry, 2013. Abstract # 314.
40. Vanamala J*, Charepalli V and **Reddivari L**. Baked purple potato extracts, containing anthocyanins, elevate apoptosis in colon cancer stem cells via p53 independent pathways. FASEB J, April 27, 2013; 27:1079.1.
41. Charepalli V, **Reddivari L*** and Vanamala J. 2013. The p53-dependent elevation of human colon cancer stem cell apoptosis by "Java Plum" anthocyanins. FASEB J 27:1079.6
42. Radhakrishnan S*, Kim SW, **Reddivari L** and Vanamala J. 2013. Processed purple-fleshed potato prevents and protects against high-fat diet elevated oxidative stress and inflammation markers in vivo in a pig model. FASEB J 27:862.21.

43. Vanamala J*, Charepalli V, Radhakrishnan S, **Reddivari L**. Resveratrol and Grape Seed Extract Combination Elevates Apoptosis in the Colon Cancer Stem Cells, Even in the Presence of IGF-1 via P53 Dependent Pathways. Experimental Biology, San Diego, 2012.
44. Radhakrishnan S*, **Reddivari L**, Smith S, Kim SW, Vanamala J. Purple potato, even after processing, suppress oxidative stress and inflammatory markers in high-fat diet consuming pigs. Experimental Biology, San Diego, 2012.
45. Madiwale G*, **Reddivari L**, Stone M, Holm DG, Vanamala J. Effect of storage and processing on the composition, anticancer properties and sensory attributes of colored-flesh potatoes. Awarded the **first prize** at the New York Academy of Sciences Research Competition (Food Science Division), December 12, 2011, New York.
46. Madiwale G*, **Reddivari L**, Holm DG, Vanamala J. Effect of post-harvest storage on anti-cancer properties of colored potatoes. Awarded the **second prize** at the IFT Annual Meeting Student Poster Competition (Nutrition Division), June 11-14, 2011, New Orleans, LA.
47. **Reddivari L***, Vanamala J, Radhakrishnan S, Yang P, Kim SW, Knight R. Purple potatoes alter the gut microbiota and inflammatory eicosanoids in obese pigs consuming high-fat diet. Potato Association of America - PAA, Aug 15th 2011, Wilmington, NC.
48. Radhakrishnan S*, **Reddivari L**, Madiwale G, Kim SW, Vanamala J. Purple potato anthocyanins exert anti-cancer properties and suppress oxidative stress even after processing. Potato Association of America - PAA, Aug 15th 2011, Wilmington, NC. (Oral presentation; **3rd Prize** in Frank L Haynes Graduate Student Research Competition)
49. Turner SD*, **Reddivari L**, Navarre R, Scheuring DC, Miller Jr. JC. Effect of Purple and White Potato Extracts on Prostate Cancer Development in Athymic Nude Mice. Potato Association of America - PAA 2011, Aug 15th 2011, Wilmington, NC (Oral presentation; **2nd Prize** in Frank L Haynes Graduate Student Research Competition)
50. **Reddivari L***, Radhakrishnan S, Andy P, Vanamala J. 2011. Resveratrol suppresses IGF-1 induced human colon cancer cell proliferation via downregulation of mTOR and pentose phosphate signaling pathways. FASEB J 25:213.2
51. Vanamala J*, Radhakrishnan S, **Reddivari L**, Yang P, Kim SW, Holm DG. 2011. Purple potatoes suppress pro-inflammatory eicosanoids in the distal colon of obese pigs consuming high-fat diet. FASEB J 25:106.3
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