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Area of Research: Fermentation and Bioprocess Technology, Transcriptomics, Biofuel, Value Addition to Agricultural Products, Feedstock Agronomy and Specialty Crops

Course/s Taught:

PS 551 Plant Metabolism and Biochemistry

PS 550 Bioenergy and Bioproduct Development

PS 320 Biomass and Bioenergy

PS 305 Plant Development and Physiology

Appointment: Research, Teaching and Extension

Publications:

1. Alavi S, Nanjundaswamy A, Gianetta F*[#], Madl R, Vadlani P (2014) Delivery of Antioxidants through Fruits and Vegetables in Extruded Foods. *Cereal Foods World* 59 (4), 179-185
2. Singelton R, Nanjundaswamy A, Mandyam K, Njiti V. 2017. Fermentation optimization of macro-fungus *Pleurotus sajor-caju* on soymeal. *Fermentation Technology* 6:2 DOI: 10.4172/2167-7972.1000146
3. Campbell C*, Nanjundaswamy A, Njiti V, Xia Q, Chukwuma F (2016) Value-Added Probiotic Development by High-Solid Fermentation of Sweet Potato with *Saccharomyces boulardii*. *Food Science and Nutrition* 5(3): 633–638. doi: 10.1002/fsn3.441
4. Panicker, G.K., A. Nanjundaswamy, J.L. Silva and F.B. Matta. 2016. Organic Farming Systems in Increasing the Anthocyanin and Vitamin C Content of Rabbiteye Blueberry (*Vaccinium ashei* Reade var. Tifblue) on a Heavy Soil. *Acta Horticulturae* (Accepted)
5. Okeke BC, Hall RW, Nanjundaswamy A, Thomson MS, **Deravi Y, **Sawyer L, **Prescott A (2015) Selection and molecular characterization of cellulolytic–xylanolytic fungi from surface soil-biomass mixtures from Black Belt sites. *Microbiological Research* 175: 24-33 Special issue: Biodiversity
6. Nanjundaswamy A and Vadlani PV (2015) Characterization of nutrients in carotenoid-full fat soy flour and rice bran produced by red yeast fermentation. *Journal of Food Chemistry and Nutrition*

7. ^{^#}Nkosi BD, Vadlani PV, Brijwani K, Nanjunda A, Meeske R (2012) Effect of bacterial inoculants and an enzyme on the fermentation quality and aerobic stability of ensiled whole crop sweet-sorghum *South African Journal of Animal Science* 42, 232-240
8. Ananda N, Vadlani PV (2011) Carotenoid value addition of cereal products by monoculture and mixed culture fermentation of *Phaffia rhodozyma* and *Sporobolomyces roseus*. *Cereal Chemistry* 88 (5): 467-472
9. Ananda N, Vadlani PV, Madl RL (2011) Rice bran is an effective substitute for yeast extract in ethanol fermentation. *Journal of Biobased Materials and Bioenergy* 5:1-5. (This was contract research for Nutracea Inc which filed a US Patent US 2009/0191603 *Use of rice bran as an accelerant in alcohol fermentation*)
10. Ananda N, Vadlani PV (2011) Substrates influence the stimulatory effect of mevalonic acid on carotenoid production in red yeasts. *Cereal Chemistry* 88:310-314.
11. Ananda N, Vadlani PV, Vara Prasad PV (2011) Evaluation of drought and heat stressed grain sorghum (*Sorghum bicolor*) for ethanol production. *Industrial Crops and Products* 33:779-782
12. Oberoi HS, Vadlani PV, Ananda N, Bansal S, Singh S, Kaur S, Babbar N (2011) Enhanced ethanol production and optimization from Kinnow mandarin (*Citrus reticulata*) waste using simultaneous saccharification and fermentation. *Bioresource Technology* 102:1593-1601
13. Ananda N, Vadlani PV (2010) Fiber reduction and lipid enrichment in carotenoid-enriched distillers dried grain with solubles (DDGS) by secondary fermentation of red yeasts. *Journal of Agricultural and Food Chemistry* 58: 12744-12748
14. Ananda N, Vadlani PV (2010) Production and optimization of carotenoid-enriched distillers dried grain with solubles by *Phaffia rhodozyma* and *Sporobolomyces roseus* fermentation of whole stillage. *Journal of Industrial Microbiology and Biotechnology* 37:1183-1192 Cited 8 times.
15. Anand KN, Thimmaiah SK (2003) Studies on nitrogen fixation characters in some varieties of cowpea. *Indian Journal of Plant Physiology* 8(4), 354-358
16. Anand KN, Thimmaiah SK, Mahadevu P (2001) Evaluation of nitrogen fixation and leghemoglobin content in root nodules of cowpea (*Vigna unguiculata* (L.) Walp.). *Indian Journal of Agricultural Biochemistry* 14 (1 & 2), 69-70
17. Thimmaiah SK, Anand KN, Mahadevu P (1999) Relationship between ureide content and nitrogen fixation rate in cowpea (*Vigna unguiculata* (L.) Walp.). *Indian Journal of Agricultural Biochemistry* 12 (1), 27-30