

PUBLICATIONS & PATENTS

| Publications and Scholarly Work | | | |
|---------------------------------|-----|--|-----|
| Refereed/Peer-Reviewed | 225 | Book Chapters/Symposium series | 33 |
| Edited Books | 11 | Patents | 1 |
| Editor reviewed proceedings | 27 | Abstracts | 225 |
| Popular/Industry Articles | 20 | Graduate students as authors of peer reviewed publications | 103 |

Refereed peer reviewed journal articles, published, in press or accepted for publication:

Underlined authors indicate current or former graduate students or postdoctoral research associates under the direction of Patil; in our field, the first author is generally regarded as lead author and often has done the majority of the actual research. In most cases the first author is either a graduate student or postdoctoral research associate. The middle authors are listed in order based upon their level of participation in the work and the last author is the corresponding author, who typically has substantial scholarly input on planning and execution of the research.

‡Publications related to teaching and curriculum development.

Total Google scholar citations: **12,247**; H-index: **59**; i10 index: **207**
Web of Science citations: **6442**; H-index:**45**, **Citing articles: 3,797**

225. Murthy, K.N.C., Jayaprakasha, G.K., S. Safe, and **B.S. Patil**, 2021. Citrus limonoids induce apoptosis and inhibit the proliferation of pancreatic cancer cells. *Food and Function*, 12:1111-1120.
224. Lee, J.S., Kasote, D. M. Jayaprakasha, G. K.; Avila., C., Crosby, K.C. **Patil, B. S.** 2021. Effect of production system and inhibitory potential of aroma volatiles on polyphenol oxidase and peroxidase activity in tomatoes. *Journal of science of the Food and Agriculture* **101**: 307-314.
223. Singh, J.; Jayaprakasha, G.K.; **Patil, B.S.** 2021. Improved sample preparation and optimized solvent extraction for quantification of carotenoids. *Plants for Human Nutrition*. 1:1-8.
222. Perera, W.H., Shivanagoudra, S.R., Pérez, J.R., Kim, D.M., Sun, Y., Jayaprakasha, G.K., **Patil, B.S.** 2021. Anti-Inflammatory, Antidiabetic Properties and In Silico Modeling of Cucurbitane-Type Triterpene Glycosides from Fruits of an Indian Cultivar of *Momordica charantia* L. *Molecules* 26:1038-1056.
221. Lee, J.S., Jayaprakasha, G. K.; Enciso, J., Avila., C., Crosby, K.C. **Patil, B. S.** 2021. Production system influences tomato phenolics and indoleamines in a cultivar-specific manner. *Food Research International*, 140: 110016.
220. Wang, J. Jayaprakasha, G.K., **B.S. Patil.** 2021. Untargeted Chemometrics Evaluation of the Effect of Juicing Technique on Phytochemical Profiles and Antioxidant Activities in Common Vegetables. *ACS Food Science & Technology* 1:77-87.
219. Nagaashima, Y., K. He, J. Singh, R. Metrani, K.M. Crosby, J. Jifon, G.K. Jayaprakasha, **B. S. Patil**, X. Qian, H. Koiwa 2021. Transition of aromatic volatiles and transcriptome profiles during melon fruit ripening, *Plant Science*, 304: 110809.
218. Tabara, M. Nagaashima, Y., K. He, X. Qian, K.M. Crosby, J. Jifon, G.K. Jayaprakasha, **B. S. Patil**, H. Koiwa, H. Takahashi, T. Fukuhara, 2021. Frequent asymptomatic infection with tobacco ringspot virus on melon fruit. *Virus Research*, 204:198266.

217. Wang, J., Jayaprakasha, G.K., **B.S. Patil**. 2020. UPLC-QTOF-MS fingerprinting combined with chemometrics to assess the solvent extraction efficiency, phytochemical variation, and antioxidant activities of Beta vulgaris L. *Journal of Food & Drug Analysis*. **28**:23-36.
216. Kasote, D.M., Jayaprakasha, G.K., Ong, K., Crosby, K.C., **Patil, B.S.** 2020. Hormonal and metabolites responses in Fusarium wilt-susceptible and -resistant watermelon plants during plant-pathogen interactions. *BMC Plant Biol* **20**, 481.
215. Lee, J.S., Jayaprakasha, G. K.; Avila., C., Crosby, K.C. **Patil, B. S.** 2020. Effects of genotype and production system on quality of tomato fruits and *in vitro* bile acids binding capacity. *Journal of Food Science* **85**, 3806-3814.
214. Acharya, P., Jayaprakasha, G.K., Semper, J., **B.S. Patil**. 2020. 1H Nuclear Magnetic Resonance and Liquid Chromatography Coupled with Mass Spectrometry-Based Metabolomics Reveal Enhancement of Growth-Promoting Metabolites in Onion Seedlings Treated with Green-Synthesized Nanomaterials. *Journal of Agricultural and Food Chemistry* **68**: 13206-13220.
213. Acharya, P., Jayaprakasha, G.K., K.C. Crosby., J.L. Jifon, **B.S. Patil**. (2020). Nanoparticle-Mediated Seed Priming Improves Germination, Growth, Yield, and Quality of Watermelons (*Citrullus lanatus*) at multilocations in Texas. *Scientific Reports (Nature Publisher Group)*10:1-16.
212. Knobloch, N. A., Charoenmuang, M., Cooperstone, J.L., and **Patil, B.S.** 2020. "Developing Interdisciplinary Thinking in a Food and Nutritional Security, Hunger, and Sustainability Graduate Course." *The Journal of Agricultural Education and Extension*, 1–15.
211. Singh, J.; Metrani, R.; Jayaprakasha, G.K.; Crosby, K.M.; Ravishankar, S.; **Patil, B.S.** Multivariate Analysis of Amino Acids and Health Beneficial Properties of Cantaloupe Varieties Grown in Six Locations in the United States. *Plants* **2020**, *9*, 1058.
210. Kasote, D.M., Jayaprakasha, G.K., Singh, J. Ong, K., Crosby, K., Patil, B. Metabolomics-based biomarkers of Fusarium wilt disease in watermelon plants. *J Plant Dis Prot* 127, 591–596 (2020). <https://doi.org/10.1007/s41348-020-00314-0>
209. Rho, H., P. Colaizzi, J. Gray, L. Paetzold, Q. Xue, **B. Patil**, C. Rush. 2020. Yields, Fruit Quality, and Water Use in a Jalapeno Pepper and Tomatoes under Open Field and High-tunnel Production Systems in the Texas High Plains. *Hort Science*, 55:1632-16421.
208. Yoo, K.S., H. Bang, L Pike, **B.S. Patil**, and E.J Lee. 2020. Comparing carotene, antocynins, and terpenoid concentrations in selected carrot lines of different colors. *Horticulture, Environment, and Biotechnology*, 2:1-9.
207. Yoo, K.S., L Pike, **B.S. Patil**, and E.J Lee. 2020. Developing sweet onions by recurrent selection in a short-day onion breeding program. *Scientia Horticulturae*, 266:109269.
206. Kasote, D. GK Jayaprakasha and **Patil, B.S.** (2019). Leaf Disc Assays for Rapid Measurement of Antioxidant Activity. *Scientific Reports* 1884:1-10.
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204. Kasote, D. Jisun Lee, GK Jayaprakasha and **Patil, B.S.** (2019). Seed Priming with Iron Oxide Nanoparticles Modulate Antioxidant Potential and Defense-Linked Hormones in Watermelon Seedlings. *ACS Sustainable Chemistry&Engineering*, 7:5142-5151.
203. Kim, E., G.A., Wright., L.A. Davidson, R.S. Zoh, **B.S. Patil**, G.K. Jayaprakasha, E.S. Callaway, C.D. Allred, N.D. Turner, R.S. Chapkin. (2019). Establishment of a multicomponent dietary bioactive human equivalent dose to delete damaged Lgr5+ stem cells using a mouse colon tumor initiation model. *European Journal of Cancer Prevention*.28: 383-389. PMID: 30234553.

202. Perez, J., Jayaprakasha, G. K.; **Patil, B. S.** (2019) Metabolite profiling and in vitro biological activities of two commercial bitter melon (*Momordica charanta* Linn.) cultivars. *Food Chemistry*, 288. 178-186.
201. Wang, J., Jayaprakasha, G. K.; **Patil, B. S.** (2019) Chemometric characterization of 30 commercial thermal and cold processed juices using UPLC-QTOF-HR-MS fingerprints, *LWT*. 108322. <https://doi.org/10.1016/j.lwt.2019.108>
200. Lee, J.S., Jayaprakasha, G. K.; Avila., C., Crosby, K.C. **Patil, B. S.** (2019). Metabolomic studies of volatiles from tomatoes grown in net-house and open-field conditions. *Food Chemistry* 275: 282-291.
199. Siddanagouda R.S., W.H. Perera, J.L. Perez, G. Athrey, Y. Sun, G.K. Jayaprakasha, **Patil, B.S.** 2019. In vitro and in silico elucidation of antidiabetic and anti-inflammatory activities of bioactive compounds from *Momordica charantia* L. *Biorganic & Medicinal Chemistry*. 27: 3097-3109. <https://doi.org/10.1016/j.bmc.2019.05.035>
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196. Singh, J. Metrani, R., Siddanagouda R.S., GK Jayaprakasha and **Patil, B.S.** (2019). Review on Bile Acids: Effects of the Gut Microbiome, Interactions with Dietary Fiber, and Alterations in the Bioaccessibility of Bioactive Compounds. *Journal of Agril. & Food Chemistry*. 67: 9124-9138. <https://doi.org/10.1021/acs.jafc.8b07306>.
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191. Jayaprakasha, G K., KN Chidambara Murthy, Federica Pellati, and **Bhimanagouda S. Patil**. 2019. "BetaSweet Carrot Extracts Have Antioxidant Activity and in Vitro Antiproliferative Effects against Breast Cancer Cells." *Journal of Functional Foods* 62: 103552.
190. Singh, J. GK Jayaprakasha and **Patil, B.S.** (2018). An optimized solvent extraction and rapid identification of unidentified flavonoid glucuronide derivatives from spinach by UHPLC-HR-QTOF-MS. *Talanta*. 188:763-771.
189. Lee, J.S., Jayaprakasha, G. K.; Rush, C., Crosby, K.C. **Patil, B. S.** 2018. Production system influences volatile biomarkers in tomato. *Metabolomics*. 14:99-108.
188. Jin, U.H., H. Park; X. Li; L.A. Davidson; C. Allred; **B.S.Patil**; G. K. Jayaprakasha; A. A. Orr; L. Mao; R.S. Chapkin; A. Jayaraman; P. Tamamis; S. Safe. 2018. Structure-

- Dependent Modulation of Aryl Hydrocarbon Receptor-Mediated Activities by Flavonoids. *Toxicological Sciences* 1: 13-18.
187. Metrani, R., Jayaprakasha, G. K.; **Patil, B. S.** (2018) Optimized method for the quantification of pyruvic acid in onions by microplate reader and confirmation by high resolution mass spectra. *Food Chemistry*, 242:451-458. <https://doi.org/10.1016/j.foodchem.2017.08.099>.
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184. Corleto, K.C. J. Singh, Jayaprakasha, G. K.; **Patil, B. S.** (2018). Storage Stability of Dietary Nitrate and Phenolic Compounds in Beetroot (*Beta vulgaris*) and Arugula (*Eruca sativa*) Juices. *Journal of Food Science*. 83:1237-1244.
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182. Goswami, R.; Jayaprakasha, G. K.; K. Shetty, **Patil, B. S.** (2018). Lactobacillus plantarum and natural fermentation-mediated biotransformation of flavor and aromatic compounds in horse gram sprouts. *Process Biochemistry*. 66:1-7.
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175. Singh, J. GK Jayaprakasha and **Patil, B.S.** (2017). Rapid and Efficient Desulfonation Method for the Analysis of Glucosinolates by High-Resolution Liquid Chromatography Coupled with Quadrupole Time-of-Flight Mass Spectrometry. *J. Agric. Food Chem.*, 65:11100–11108.
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- derivatives in spinach. *Rapid Communications in Mass Spectrometry*. 31:1803-1812. PMID:28836299.
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