

INVITED AND VOLUNTEERED PAPERS/ABSTRACTS

Professional Societies	Keynote/Plenary	Invited	Volunteer / Submitted	Total
International	26	32	10	68
National	5	103	161	269
Regional	1	7	13	21

Professional Societies

(^{Keynote}=Keynote speaker, ^{Plenary}=Plenary speaker, ^{In}=Invited speaker. Underlined authors indicate current or former graduate students or postdoctoral research associate under the direction of Patil.

International

81. ^{Plenary}**Patil, B.S.** Jha, D.K., Kausal, N., and Dadwal, 2025. System-Wide Perspectives on Metabolic Dynamics, Physiological Significance, and Health Benefits of Fruits and Vegetables. 6th International Conference on Plant Physiology. Coimbatore, Tamil Nadu, India. December 15-18, 2025.
80. ^{Keynote}**Patil, B.S.** Jha, D.K., Kaushal, N. and Dadwal, 2025. From Farm to Clinic: Translating Fruit and Vegetable Research into Public Health: 5th International Conference on Food Bioactives and Health. Indian Horticulture Congress-Foundation Lecture, Bengaluru, India. November 6-10, 2025.
79. ^{Keynote}**Patil, B.S.** Jha, D.K., and Dadwal, V. Cervantes, B., Kaushal, N. Chatterjee, D., Bernard, P. 2025. The preventive power of plant polyphenols: Scientific advances from fruit and vegetables. 18th world Congress- Polyphenols and Applications, Malta, October 2-4, 2025.
78. ^{Keynote}**Patil, B.S.** Jha, D.K., and Dadwal, 2025. Citrus flavonoids and their precursors: Insights on bioactivity and cancer prevention. 5th International Conference on Food Bioactives and Health 2025. Marsiella, France. June 2-4, 2025.
77. ^{In}Adhikari, J., Araghi, L. Singh, R., Adhikari, K., and **Patil, B.S.** (2025). Continuous High-Pressure Homogenization enhances retention of polyphenolic compounds in grapefruit juice under simulated market conditions. 32nd International Conference Polyphenols- 7-10 July 2025, Turku, Finland.
- 76 ^{Keynote}**Patil, B.S.** Bhattarai, S., Jha, D., and Dadewal, V. 2024. Impact of Pre-and Post-harvest Conditioning on the Quality, flavor, and health properties of Fruits and Vegetables. **European Horticulture Congress, Bucharest, Romania-May 11-16, 2024.**
- 75 ^{Keynote}**Patil, B.S.** Dadewal, V., K.N.C. Murthy, 2024. Revisiting Citrus Flavonoids: Potential for Preventing Cancer and Improving Gut Health. **6th International Conference on Nutraceuticals and Chronic Diseases (INCD-2024), Chandigarh, India- February 22-24, 2024.**
- 74 ^{Keynote}**Patil, B.S.** Dadewal, V., K.N.C. Murthy, 2023. Distinct Biological Activities and Health Impacts of Citrus Limonoids with Differing Structures. Fourth International Conference on Food Bioactives and Health, **Prague, Czech Republic- September 22-24, 2023.**
- 73 ^{Keynote}**Patil, B.S.** Singh, J., K.N.C. Murthy, 2023. Beyond Vitamin C: A Deep Dive into the Health-Promoting Components of Citrus Fruits. **Asian Citrus Congress, Nagpur, India. October 28-30, 2023.**

72 **Patil, B.S.** Crosby, Kevin M., Rhonda K. Miller, Jashbir Singh, and Sadhana Ravishankar. 2023. 2023. Investigation of Volatile and Non-Volatile Composition in Various *Cucumis Melo* Cultivars for Sensory Attributes and Food Safety, 3rd Food Chemistry Conference, Dresden, Germany, **October 10-12, 2023**.

71. Adhikari, J., Singh, R., Adhikari, K. and **Patil, B.S.** (2023). Continuous Flow of High-Pressure Homogenization Retains Anthocyanins and Maintains Blueberry Juice Quality." *XXXI International Conference on Polyphenols*. July 3-6, 2023, Nantes, France.

70^{Keynote} **Patil, B.S.** Singh, J., Metrani, R., Crosby, K., Jifon, J and Ravishankar, S. 2023. Exploring the Interplay Between Sensory Attributes, Food Safety, Bioactives, and Genetics in Melon Cultivars: A Comparative Study. VII ISHS International Symposium on Cucurbits, Zhengzhou, Henan, China. (virtual), **June 11-15, 2023**.

69^{Invited} Ravindranath, V., Metrani, R., Singh, J., Jayaprakasha, G.K., **B.S. Patil** 2023. A Chemometric Approach to Investigate Post-Harvest Behavior of *Cucumis Melo* Phytonutrients, International Conference on Postharvest Unlimited, **Wageningen, Netherland-May 14-18, 2023**.

68^{Keynote} **Patil, B.S.** Singh, J., K.N.C. Murthy, 2022. Citrus Health Benefits: Evidences from Pre-clinical and clinical studies. **14th International Citrus Congress, Mersin, Turkey- November 6-11, 2022**.

67^{Keynote} **Patil, B.S.** Biradar, K., Singh, J., K. Crosby, and J. Jifon. 2022. The spice of life: Understanding and Improving the health promoting properties of peppers. **25th International Pepper conference, Tuscan, AZ, USA-September 26-28, 2022**.

66^{Keynote} **Patil, B.S.** Singh, J., Metrani, R., Biradar, K. 2022. Nutritional and Health Attributes of Fruits and Vegetables at a Critical Juncture of Sustainability Goals. **IX International Symposium on Human Health Effects of Fruits and Vegetables (FAV Health), 31st International Horticultural Congress, Angers, France. August 14-20, 2022**.

65. ^{keynote} **Patil, B.S.** Nutritional and Health Attributes of Fruits and Vegetables at a Critical Juncture of Sustainability Goals., University of Agricultural Sciences, Dharwad, India. December 15, 2022

64. ^{Keynote} **Patil, B.S.** Challenges and Perspectives of students going abroad- Interaction with undergraduate and graduate students., University of Horticultural Sciences, Bagalkot, India. May 27, 2022

63^{In} **Patil, B.S.** Jayaprakasha, G.K., Achyara, P. and Singh, J. 2021 (Virtual). Optimized Method for the Quantitation of Amino Acids from Different Plant Moieties. **VIII. International Symposium on Human Health Effects of Fruits and Vegetables (FAV Health), Stuttgart, Germany. March 9-11, 2021**.

62^{In} **Patil, B.S.** Jayaprakasha, G.K., Achyara, P. and Singh, J. 2020 (virtual). The Nexus of Postharvest, food processing, nutrition, malnutrition and climate change. Asian Horticulture Congress. December 15-17, 2020, Bangkok, Thailand.

61. ^{In} **Patil, B.S.** 2019. "Natural products from underutilized crops Isolation, identification, and examination of their role in mitigating cardiometabolic diseases". 5th IUPHAR Word Conference on the Pharmacology of Natural Products and 51st Annual Conference of Indian Pharmacological Society at Hyderabad, India. December 5-6, 2019.

60. ^{Keynote} **Patil, B.S.** Jayaprakasha, G.K., Achyara, P. and Singh, J. 2019. Arid Zone Fruits: A New Resource to Improve Human Health and Food Security in the Era of Climate Change. National Conference on Arid Fruits-A way forward for sustainable production and nutritional security. University of Agricultural Sciences, Raichur, India. November 28-30, 2019.

59. ^{Keynote}**Patil, B.S.** Jayaprakasha, G.K., and Singh, J. 2019. Can we reduce Obesity burden by consuming selected fruits and vegetables? Global Conference on Obesity, Nutrition and Health Disorders, October 7-8, 2019. Dubai, UAE.

58. ^{In}**Patil, B.S.** Sustainable Diet in the era of Global Transitions: Challenges and Opportunities, University of Agricultural Sciences-Banguluru, Karnataka, October 11, 2019.

57. ^{In}**Patil, B.S.** Global Obesity Epidemic or Disease: Is Fruits and Vegetables an answer? University of Horticultural Sciences, Bagalkot, Karnataka, October 15, 2019.

56. ^{Keynote}**Patil, B.S.** Singh, J., Acharya, P., Metrani, R., Shivanagoudra, S., Perez, J., G. Jayaprakasha. 2019. Hidden Treasures of the Cucurbitaceae: Health Benefits of Melons, from Watermelon to Bitter Melon. VI International Symposium on Cucurbits, ISHS, Ghent, Belgium. June 30-July 4, 2019.

53. ^{Plenary}**Patil, B.S.**, Jayaprakasha, G.K and J. Singh 2019. Fruits, Vegetables, and Medicinal Plants for the Prevention and Treatment of Disease: Untapped Potential and Unanswered Questions. 9th American Council of Medicinally Active Plants Conference, Dehradun, India, February 14-17, 2019.

52. ^{In}**Patil, B.S.** Role of Horticulture in the Era of Triple burden of malnutrition: Status, Challenges and Prospects for Implementing a Sustainable Diet, Indian Institute of Horticultural Research, Hesarghatta, India. February 18, 2019.

51. ^{Keynote}**Patil, B.S.** 2019. Horticulture, Nutrition, and Human Health: Status, Challenges, and Prospectus for Implementing a Sustainable Diet. 8th Indian Horticulture Congress. January 16-19, 2019, Raipur, India.

50. ^{Keynote}**Patil, B.S.**, 2018. Role of functional foods in NCD's: case studies and trends, ASEAN Biodiversity Resources of Functional Foods for Non-Communicable Diseases (NCDs), hosted by the Ministry of Science and Technology and TISTR, March 20, 2018. Bangkok, Thailand.

49. ^{Plenary}**Gomez, M. K.**, Singh, J., Jayaprakasha, G.K., and **Patil, B. S.**, Differential effect of harvest period and location on the levels of Phytochemicals, Radical Scavenging Activity and Bile Acid Binding Capacity of Dandelion leafy green., International Horticulture Congress, Istanbul, ISHS, August 2018.

48. **Patil, B. S.**, 2018. Chief Guest and remarks- Inauguration of Norman Borlaug International Center for Agriculture Development. University of Agricultural Sciences, Dharwad, Karnataka, India, January 5, 2018.

47. ^{In}**Patil, B.S.**, Angadi, S.V., Senthil, A., 2018. Modeling the Effect of Environmental Conditions on Health-promoting Compounds of Melons. 7th Global Ag-MAP workshop, San Jose, Costa Rica, April 22-27, 2018.

46. ^{In}**Patil, B.S.**, Jashbir Singh and Jayaprakasha. 2018., From Table to Farm: A Dietary Paradigm Shift for Health, Sustainability, and Food Security. Word Food Conference, IuFOST 2018. Mumbai, India-October 24-27, 2018.

45. ^{Keynote}**Patil, B.S.**, 2018, Sustainable diet to address food, nutritional security, and hunger: where we are, and where to go from here hosted by the Combined Congress, South Africa. January 17, 2018, Cape town, South Africa.

44. ^{Plenary}**Patil, B.S.**, Jayaprakasha, G.K., and Jashbir Singh. 2017. Role of novel food bioactives in human disease prevention: Challenges and Opportunities. Food Ingredient Asia International Conference, "Natural Functional Ingredients: An Innovative Solutions for Healthcare in Ageing Society. September 13-15, 2017. Bangkok, Thailand.

43. ^{In}**Goswami, R.**, Shetty, K., J., Jayaprakasha, G.K., and **Patil, B. S.**, Biotransformation of Bioactive Compounds in Horse Gram (*Macrotyloma uniflorum*). International Conference Nutraceutical and Functional Foods. October 22-25, 2017. Gunsan, South Korea.

42. ^{In}**Patil, B. S.**, Singh, J., Jayaprakasha, G.K., and UPLC-HR-QTO-MS Metabolite Profiling and Bioaccessibility of Polyphenols. 8th International Conference on Polyphenols and Health, Quebec City, Quebec, October 3-6, 2017.

41. ^{In}**Patil, B.S.**, 2017. Sustainable diet to address food, nutritional security and hunger. National Institute of Ecology. October 23, 2017, Seocheon, Chungcheongnam-do, South Korea.

40. ^{In}**Patil, B.S.**, 2017. Produce for Health: Challenges and Opportunities, September 12, 2017. Cheng Mai, University, Cheng Mai, Thailand.

39. ^{Keynote}**Patil, B.S.**, Jayaprakasha, G.K., Murthy, K.N.C. 2016. Beyond Vitamin C: The Diverse, Complex Health-promoting Properties of Citrus Fruits. III International Symposium on Underutilized Plant Species, 13th International Citrus Congress, Foz Do Iguacu, PR. Brazil, September 18-23, 2016.

38. ^{Plenary}**Patil, B.S.** 2016. Postharvest and processing effects on health promoting properties. 54 Brazilian Congress of Vegetables. Recife, Brazil.

37. ^{Keynote}**Patil, B.S.** 2016. Nexus of Nutritional & Food Insecurity and Hunger: Perspectives of Millets and FAV. Workshop- All India Coordinated Sorghum Improvement Project, April 25-27, 2016, Udaipur, India. Goal of the workshop was to demonstrate success stories of the role of fruits and vegetable on human health in order to initiate research on millets and sorghum health benefits.

36. ^{Keynote}**Patil, B.S.**, Jayaprakasha, G.K., Singh, J., Angadi, S., and Tonapi, V. Underutilized plant species to address nutritional insecurity: challenges and opportunities, III International Symposium on Underutilized Plant Species, Madurai, TN, India, Aug 5-7, 2015.

35. ^{In}**Patil, B.S** and V. Tonapi. Achieving zero hunger. International Conference on Science, Technology and Policy for Achieving Zero Hunger Challenge, Chennai, India. August 7-9, 2015.

34. ^{Plenary}**Patil, B.S.** Current status of perceived benefits of pepper health benefits: Challenges and opportunities to increase consumption of pepper using health and nutritional benefits. International pepper conference, Vin Del Mar, Chile. November 17-21, 2014.

33. ^{Keynote}**Patil, B.S** R.M Uckoo and M.A. Palma: Consumers' changing perceptions of quality: Revisiting the science of fruit and vegetable cultivation for improved health benefits. XXIX International Horticulture Congress, Brisbane, Australia- Symposium 11- August 17-22, 2014.

32. ^{In}**Patil, B.S** R.M Uckoo and Jayaprakasha, G.K. Emerging trends in hyphenated separation and isolation technologies of naturally occurring compounds from selected fruits, vegetables and spices. XXIX International Horticulture Congress, Brisbane, Australia Symposium 11-August 17-22, 2014.

31. ^{In}**Patil, B.S.** VFIC's Foods for Health: New Era of Healthy Eating. Plant and Food Research Institute, Auckland, New Zealand Australia-August 2014.

30. ^{Keynote}**Patil, B.S** R.M Uckoo and Jayaprakasha, G.K. Food for Health: Linking Agriculture to Nutrition and Health. First International Bitter Gourd Conference, March 201-21, 2014, Hyderabad, India.

29. ^{In}**Patil, B.S.** Food for Health: Linking Agriculture to Nutrition and Health. Directorate of Oil Seeds, Govt of India, Hyderabad, India. March 22, 2014.

28. ^{Plenary}**Patil, B.S.**, Case Studies of Commercialization of Food: Challenges and Opportunities at Each Stages from Farm to Clinic. Third National symposium USAID-Tropical Plants Curriculum Project: "Opportunities and Prospects of Commercialization of Indigenous Plant-Based Products". October 2013. Udyana University, Bali, Indonesia.

27. ^{Plenary}**Patil, B.S.**, Jayaprakasha, G.K. and R.M. Uckoo. Paradigm shift in intersection of horticulture, nutrition and health sciences for Food and Nutritional Security: Lessons learned and future perspectives. Fifth International Symposium on Human Health Effects of Fruit and Vegetables. Dharwad, India. January 2013.

26. Plenary **Patil, B.S.** Uckoo, R.M. and Jayaprakasha, G.K.(2012), Historical perspectives of dietary habits and their Emerging evidences on human health. Presentation at the International Food Conference Future of Food Factors. October 3-4, 2012, Jakarta, Indonesia.

25. In **Patil, B.S.** Grapefruit Drug Interaction: Myth or Reality?: Drug Institute, University of Jerusalem, Israel- February 23, 2012.

24. In **Patil, B.S.** Foods for Health: Current research at the VFIC with emphasis on Citrus. Volcani Agriculture Center, Israel- February 27, 2012.

23. Keynote **Patil, B.S.** Vegetables: From the Origin to the Challenges of Health and Sustainability: Research trends at VFIC and Texas- University of Vicos, Brazil- 51st Vegetable Crops Brazilian Congress /III Latin American Symposium of Herbs and Medicinal Plants- July 2011..

22. Keynote **Patil, B.S.** Uckoo, R.M. and Jayaprakasha, G.K.(2011), A Perspective of Foods for Health in Developing and Developed Countries: Challenges and Opportunities- Presentation at the Indonesian Food Conference- Nasional Perhimpunan Ahli Teknologi Pangan (PATPI), September 15-17, 2011, Manado, Indonesia.

21. Kim, J., Jayaprakasha, G.K., and **Patil, B.S.** Citrus obacunone exhibit anti-proliferative and anti-aromatase activity in vitro by inhibiting p38 MAPK signaling pathway in MCF-7 human breast adenocarcinoma cells, presented at ESPCA on Natural Products, Medicinal Chemistry and Organic Synthesis Integrated Solutions for Tomorrow's World, 14th - 18th August 2011, São Paulo, Brazil.

20. In **Patil, B.S.**, Crosby, K., Byrne, D. 2010. Breeding Vegetables and Fruits to Improve Human Health: A Collaborative Effort of Multidisciplinary Scientists, Stakeholders, and Consumers Using System-Based Approach. August 22-27, 2010. Symposium 07.008- " Emerging Health Issues in Fruits and Vegetables" Volume 2: page 332, 28th International Horticulture Congress, Lisbon, Portugal.

19. In **Patil, B.S.**, VFIC's Foods for Health: A Global Partnership Effort of Stakeholders, Trans-Disciplinary Scientists, Students, Educators, and Consumers. August 22-27, 2010. 28th Workshop 23- " Networking the FAV and Health Networks" Volume 1: page 372, 28th International Horticulture Congress, Lisbon, Portugal.

18. In **Patil, B.S.**, Chaudhary, P., Porat, R., Jayaprakasha, G.K. 2010. Grapefruit degreening influences health-promoting limonoids and flavonoids. August 22-27, 2010. Symposium 07.008- " Emerging Health Issues in Fruits and Vegetables" Volume 2: page 338, 28th International Horticulture Congress, Lisbon, Portugal.

17. In **Patil, B.S.**, Pre and Postharvest Effects on Health Promoting Compounds: Perspectives in the current context of Human Health Related studies. International Conference on Post Harvest management and Valorisation of Agri -Horticultural Produce, February 19-20, 2010, New Delhi, India.

16. Participated in group discussion and attended the International conference on biodiversity in relation to food and human security in warming planet. In memory of Dr Norman E Borlaug- Feb 15-17, 2010, Chennai, India.

15. In Kim, J., G.K. Jayaprakash, G.K., **Patil, B.S.**, Lemon bioactive limonoid aglycones induces breast cancer cell arrest but not apoptosis. Annual International Society for Nutraceutical and Functional Conference, San Francisco, CA- November 1-4, 2009.

14. In **Patil, B.S.**, Jayaprakasha, G.K. and K.N.C Murthy. Prevention of Cancer by naturally occurring bioactive compounds: Conventional wisdom or reality? 3rd International Symposium on Human Health Effects of Fruit and Vegetables. Avignon, France. October 2009.

13. Plenary **Patil, B.S.**, Jayaprakasha, G.K., and K.N.C Murthy. Citrus and Colon cancer prevention: Current research and Future Prospectus. October 26-30, 2008. 11th International Citrus Congress, Wuhan, China.

12. ^{Plenary}**Patil, B.S.**, Jayaprakasha, G.K., and K.N.C Murthy. Multitude Health Benefits of Fruits and vegetables: Scientific oddity or clinical reality. December 16-19, 2008. 6th International Food Convention, Mysore, India.
11. ^{In}**Patil, B.S.**, and Jayaprakasha, G.K. Foods for Health current perspectives and future challenges, presented at ICFOST 2007, Dec. 31-Jan 2, 2008, Karagpur, India.
10. ^{In}**Patil, B.S.**, Jayaprakasha, G.K., and K.N.C Murthy. January, 2007. Health Maintaining Properties of Citrus Colorless Bioactive Compounds: Underlying Mechanism-Antioxidant Activity? Third biennial society meeting for Free Radical Research-Asia and Sixth Annual Meeting of the Society for Free Radical Research-India (SFRR-India). Lonawala, India.
9. ^{In}**Patil, B.S.** Foods for Health: A Global Horticulturists Opportunity to Demonstrate Healthy Living. 28th International Horticultural Congress. August, 2006, Seoul, Korea.
8. Park, S.H., N. Cheng, J.N. Pittman, K.S. Yoo, J. Park, T. Kang, C. Kim, J. Han, S. Kim, L.M. Pike, R. Smith, **Patil, B.S.**, and K. Hirschi. Designing Vegetables and Fruits for Improved Nutrition and Health – Calcium. 27th International Horticultural Congress. August, 2006, Seoul, Korea.
7. ^{In}**Patil, B.S.** Challenges and Opportunities of Exploring Health Promoting Properties of Indigenous Vegetables. First International Symposium on Indigenous Vegetable. December, 2006, Hyderabad, India.
6. ^{In}Girennavar, B., Jayaprakasha, G.K., **Patil, B.S.**, Grapefruit-Drug Interaction: Is it Limited to Only Juice? 28th International Horticultural Congress, August 2006, Seoul, Korea.
5. ^{In}**Patil, B.S.** E.D. Harris, E.G. Miller. Impact of Citrus Limonoids on Human Health. International Symposium on Human Health Effects of Fruits and Vegetables. August, 2005, p-41. Quebec City, Canada.
4. ^{In}Harris, E.D., S.M. Poulose and **Patil, B.S.**, Citrus Limonoids as Novel, Effective Anticancer Agent. International Symposium on Human Health Effects of Fruits and Vegetables. p-28. August, 2005, Quebec, Canada.
3. ^{In}**Patil, B.S.** Biological Activities of Citrus Beyond Vitamin C. Second International Congress on Plant Physiology, January, 2003, New Delhi, India. (Lead speaker for session 7).
2. ^{In}**Patil, B.S.** and K. Shellie. Carotenoids and Vitamin C Changes by Semi-Commercial Ultra-Low Oxygen Storage in Grapefruit. Proceeding XXVIth International Society of Horticultural Sciences. Toronto, August, 2002, Canada.
1. Vanamala, J, G. Cobb, L. Pike and **Patil, B.S.** Ionizing radiation effect on postharvest quality of 'Rio Red' grapefruits. XXVIth

National

- 267 Adhikari, J., Singh, R., Adhikari, K., and Patil, B.S. (2024). Preserving Flavor in Grapefruit Juice: Continuous Flow High-Pressure Homogenization Versus Conventional Treatment. American Society of Horticultural Science 2024 Annual Conference Honolulu, Hawaii, September 23-27, 2024.
- 266 Adhikari, J., Singh, R., Adhikari, K., and Patil, B.S. (2024). Continuous Flow High-Pressure Homogenization's Impact on Grapefruit Juice Quality: Preserving Nutrition and Reducing Furanocoumarins. ACS Fall 2024, Denver, CO, USA, August 18-22, 2024.
- 265 Dadwal, V., Balyan, S., & Patil, B. S. (2024). Synergistic effects of citrus terpenoid and dietary fibers on Lactobacillus growth and metabolite production. American Council of Medicinal Plants, Prairie View A&M University, Prairie View, Texas, USA. October 3-6, 2024
- 264 Dadwal, V., & Patil, B. S. (2024). Prebiotic citrus limonin glucosides promote Lactobacillus proliferation. ACS-Fall 2024. Colorado, Denver, USA. August 18-22, 2024.

263 D.K.Jha, J. Singh, and **Patil, B.S.** (2024). Seed priming with nitrogen-doped carbon dots (N-CDs) enhances production, reduces pungency, and improves the postharvest quality and storability of onion bulbs. ACS 2024 symposium, Denver, CO, August 2024.

262 D.K.Jha, J. Singh, and **B. S. Patil**. 2024. Seed nano priming with nitrogen-doped carbon dots enhances yield, quality, and potential health-promoting attributes in tomato fruit. ACMAP 2024, Prairie View, Texas. October 2024.

261 Bhattarai, S., Jha, D. K., Zhen, S., and **Patil, B. S.** (2024). Supplemental Lighting Influences the Antioxidant Content and Associated Kinetic Attributes in Greenhouse-grown Tomatoes. ACMAP 2024 Annual Conference, Prairie View, TX, USA. October 3-6, 2024.

260 Bhattarai, S., Jha, D. K., Zhen, S., and **Patil, B. S.** (2024). Supplemental Blue and UV-B Light Enhances Amino Acid-Derived Flavor Compounds in Greenhouse-Grown Tomatoes. ASHS 2024 Annual Conference, Honolulu, HI, USA. September 23-28, 2024.

259 Bhattarai, S., Jha, D. K., Zhen, S., and **Patil, B. S.** (2024). Controlled environment agriculture: Supplemental blue and UV-B light modulates tomato phenolic compounds and antioxidant activity in a variety-dependent manner. ACS Fall 2024 Annual Conference, Denver, CO, USA. August 18-22, 2024.

258 Balyan S., V. Dadwal, and **Patil, B.S.** (2024). Nanoemulsion with Lactobacillus-derived exopolysaccharide potentiates the antimicrobial activity of eugenol to protect fresh produce against foodborne pathogens and biofilms. ACS Fall. August 18- 22, 2024, Denver, CO.

257 Balyan S., V. Dadwal, and **Patil, B.S.** (2024). Inhibiting Foodborne Pathogens and Biofilms on Fresh Produce by Nano-emulsion developed from Lactobacillus-Derived Exopolysaccharide and Eugenol. American Society of Horticultural Science 2024 Annual Conference, Sept 23-Sept 27, 2024, Honolulu, Hawaii.

256 Balyan S., V. Dadwal, and **Patil, B.S.** (2024). Utilizing biopolymers from lactic acid bacteria to enhance the stability, bioactivity, and antimicrobial efficacy of eugenol. American Council of Medicinally Active Plants (ACMAP) Annual Conference, October 1-4, 2024, Prairie View, TX.

255 ^{Keynote} **Patil, B.S.** (2023). "From the Ground Up: Unearthing the Powerful Connection Between Soil, Plant Phytochemicals, and Human Health". **National Academies of Science, Engineering and Medicine**. July 26, 2023. Washington, D.C. Exploring-linkages-between-soil-health-and-human-health.

254 ^{Keynote} **Patil, B.S and Singh, J.**, 2023. "Chemoprofiling of Common and Underutilized Crops to Address Food and Nutritional Insecurity in the Face of Climate Change. ACS Fall. August 13-17, 2023, San Francisco, CA.

253 Adhikari, J., Rahimi Araghi, L., Singh, R., Adhikari, K. and **Patil, B.S.** (2023) Continuous Flow High-Pressure Homogenization Increases the Stability of Physicochemical and Nutritional Characteristics of Blueberry Juice During Cold Storage. IFT FIRST 2023 Annual event and Expo in Chicago, IL, USA. July 16-19, 2023.

252 Adhikari, J., Rahimi Araghi, L., Singh, R., Adhikari, K. and **Patil, B.S.** (2023) Continuous flow high-pressure homogenization is an alternative preservative technique to increase the shelf life of watermelon juice during cold storage. ACS, San Francisco, CA, USA, August 13-17, 2023.

251 Balyan S., N. Dhowlaghar, and **Patil, B.S.** (2023). Enhancing fresh produce safety through synergistic antimicrobial activity of probiotic-derived exopolysaccharide and eugenol emulsion against foodborne pathogens. American Society of Horticulture Science 2023 Annual Conference Orlando, Florida July 31-August 4, 2023.

250 ^{ln}Balyan S., N. Dhowlaghar, and **Patil, B.S.** (2023). Probiotic biopolymer-based encapsulation enhances limonene oil stability and antimicrobial efficacy. American Chemical Society Conference, San Francisco, CA. August 13-17, 2023.

249 ^{ln}Bhattarai, S. and **Patil, B.S.** (2023). Supplemental Blue and UV-B Lighting Enhances Volatile Organic Compounds in Greenhouse-Grown Tomatoes. 2023 ASHS Annual Conference, Orlando, Florida. July 31-August 4, 2023.

248 ^{ln}Bhattarai, S. and **Patil, B.S.** (2023). Supplemental Blue and UV-B Lighting Enhances Tomato Fruit Firmness and Antioxidant Compound Contents. 2023 ASHS Annual Conference, Orlando, Florida. July 31-August 4, 2023

247 ^{ln}Singh, J., and **B.S. Patil.** (2023). "A Sustainable Ultra-High Performance Liquid Chromatography Method for Analysis of Carotenoids Using GRAS Solvents. *ACS Spring*. March 26-30, 2023, Indianapolis, IN.

246 ^{ln}Sah, G., Goff, N., , Singh,J., Kurouska, D., and **B. S. Patil.** 2023. Using Raman Spectroscopy for Non-Destructive Evaluation of Carotenoids in Cucumis Melo at Different maturity stages. March 26-30, 2023, Indianapolis, IN.

245 ^{ln}Biradar, K., J. Singh, S. Pillai and K. Crosby and **Patil, B. S.** Ultra-high-performance liquid chromatography with a phenyl-hexyl column enables the separation of major pepper capsaicinoids and capsinoids. SASHS conference, New Orleans, LA. February 11-13, 2022.

244. Noh,J.Y., M. Herrera, **B.S. Patil**, X.D. Tan, G.A. Wright, Y. Sun 2022. The expression and function of growth hormone secretagogue receptor in immune cells: A current perspective. *Exp Biol Med (Maywood)* doi: 10.1177/15353702221121635.

243 Bastola, B., Dhowlaghar, N., and **Patil, B.S.** Natural essential oils stabilized with soy lecithin control selected foodborne pathogens, IFT Annual Event and Expo, Chicago, July 10-11, 2022.

242 ^{ln}Singh, J., Metrani, R., Crosby, K., Jifon, J., Ravishankar, S., P. Brierley, D. Leskovar, W. Guan, R. Miller and **Patil, B.S.**, Sensory and phytochemical attributes of muskmelon cultivars as a function of production location. ASHS Conference, Chicago, July 30-August 3, 2022.

241 ^{ln}Singh, J., Metrani, R., Crosby, K., Jifon, J., Ravishankar, S., P. Brierley, D. Leskovar, W. Guan, R. Miller and **Patil, B.S.**, Impact of production location on phytochemical composition of honeydew and Casaba melon cultigens. ASHS Conference, Chicago, July 30-August 3, 2022.

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225. ⁱⁿ**Park, R., Rowlands, D., Wei, Qi., Porchas, M., Brierley, P., Crosby, K., Patil, B.S., and Ravishankar, S.**, Why we peel melons: A peek into the prevalence of foodborne pathogens among field-grown melons in Arizona and environmental risk factors for cross-contamination, (Virtual) ACS National Meeting & Exposition, San Antonio, TX, April. 7-8, 2021

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223. ⁱⁿ**Patil, B.S.** Jayaprakasha, G.K., Singh, J. and Achyara, P. 2020. Impact of Postharvest and Processing of Fruits and Vegetables on Nutritional Security. Southern American Society for Horticultural Sciences, February 1-2, 2020, Louisville, KY.

222. ^{Keynote} **Patil, B.S.** The Nexus of Food, Ag Engineering, and Nutritional Security in the era of climate change, Agricultural and Biological Engineering Graduate Student Association (ABE-GSA) industry symposium, Purdue University, West Lafayette, IN-Feb 7, 2020.

221. ^{Keynote} **Patil, B.S.** Jayaprakasha, G.K., Achyara, P. and Singh, J. 2019. Influence of food processing technology on nutritional security. Food Technology Conference in Los Angeles. November 2019.

220. ^{In}**Patil, B.S.** Sustainable diet to address food, nutritional security, and hunger: where we are, and where to go from here- Department of Horticultural Science, Purdue University, West Lafayette, IN. October 2019.

219. ^{In}**Patil, B.S.**, Jashbir Singh and Jayaprakasha. 2019., Optimization of factors influencing quantitation of carotenoids of melon. ASHS National Meeting, Los Vegas, July 30-Aug 3rd, 2019

218. Semper, J., P. Acharya, G.K. Jayaprakasha, **B.S. Patil**, 2019. Seed Priming with Nanomaterials Prepared from Agro-Industrial Byproducts Modulate the Growth and Metabolome of Onion Seedlings. American Chemical Society (ACS), Aug 25-29, San Diego, CA.

217. Acharya, P., G.K. Jayaprakasha, K. Crosby, J. Jifon, **B.S. Patil**. 2019. Gold Nanoparticles Enhances Seed Germination, Growth and Yield of Onion (*Allium cepa L.*). American Society for Horticultural Sciences (ASHS), July 21-25, Las Vegas, NV.

216. Acharya, P., G.K. Jayaprakasha, **B.S. Patil**. 2019. Postharvest Storage and Nanoparticle Treatment Alter the Bioactive Compounds of Diploid and Triploid Watermelon (*Citrullus Lanatus*). American Society for Horticultural Sciences (ASHS), July 21-25, 2019. Las Vegas, NV.

215. Fix, A., **Patil, B.S.**, Leskovar, D.I., Rooney, W.L., Smith, W. and Crosby, K. 2019. Mission Melon: Improving Qualitative Traits in *Cucumis Melo* Using Phenomics. American Society for Horticultural Sciences (ASHS), July 21-25, Las Vegas, NV.

214. Silva, A.L., Coolong, T.W., Crosby, K. and **Patil, B.S.** 2019. Cantaloupe and Honeydew Yield and Quality Performance in Georgia. American Society for Horticultural Sciences (ASHS), July 21-25, Las Vegas, NV.

213. **Patil, B.S.**, Jayaprakasha, G.K., and Singh, J. 2019. Optimization of Factors Influencing Quantitation of Carotenoids of Melon. American Society for Horticultural Sciences (ASHS), July 21-25, Las Vegas, NV.

212. Jifon, J., Crosby, K., and **Patil, B.S.** 2019. Muskmelon (*Cucumis melo L.*) Yield and Quality Responses to Potassium Fertilizer Sources. American Society for Horticultural Sciences (ASHS), July 21-25, Las Vegas, NV.

211. ^{In}**Patil, B.S.** The nexus of Food Security & Nutritional Security, Sustainability and Hunger: Multidisciplinary Educational and Research Opportunities and Challenges. American Horticultural Sciences National Meeting, Kona, Hawaii. September 19-22, 2017-Colloquia entitled "Food and Nutritional Security in the Developing World: Challenges and Opportunities".

210. ^{Plenary}**Patil, B.S.**, Jayaprakasha, G.K., Corleto, K., J. Singh., R. Goswami. Healthy Functional Foods: Effects of Processing and Storage on Health-Promoting Molecules. 8th annual conference American Council on Medicinally Active Plants, Clemson, SC. June 22-24, 2017.

209. ^{In}**Patil, B.S.** Challenges and opportunities for international collaborations to improve value added horticulture industry-American Horticultural Sciences National Meeting, August 10, 2016-Workshop entitled "Horticulture Industry in India: Opportunities and Challenges" hosted by the AHIO

208. ¹ⁿJayaprakasha, G.K., K.C. Crosby and **Patil, B.S.** Optimization of aroma compounds determination in Capsicum annuum cultivars using HS-SPME coupled with GC-MS, 252th ACS National Meeting, Philadelphia, PA, Aug. 21-26, 2016.

207. Lee, J., Jayaprakasha, G.K., K.C. Crosby., and **Patil, B.S.** Growing Environment Effects the Levels of Health Promoting Compounds in Tomato, ASHS National Meeting, Atlanta, Aug 7-11, 2016.

206. Gomez, M., R. L. Jarret, Jayaprakasha, G.K., K.C. Crosby, and **Patil, B.S.** An Optimized Accelerated Solvent Extraction Method for the Isolation of Health Promoting Compounds from Non Pungent Peppers, ASHS National Meeting, Atlanta, Aug 7-11, 2016.

205. Burkat, N., J. Singh, Jayaprakasha, G.K., and **Patil, B.S.** Impact of Harvesting Time on the Levels of Nitrate and Flavonoids in Spinach, ASHS National Meeting, Atlanta, Aug 7-11, 2016.

204. Corleto, K., J. Singh, Jayaprakasha, G.K., and **Patil, B.S.** Determination and Quantification of Amino Acids in Vegetables by HPLC Fluorescence Detection, ASHS National Meeting, Atlanta, Aug 7-11, 2016.

203. Jayaprakasha, G.K., and **Patil, B.S.** Characterization of tomato volatiles by headspace-solid-phase micro extraction, 250th ACS National Meeting, Boston, MA, Aug. 16-20, 2015.

202. Kommein, S and **Patil, B.S.**, Antioxidant Activity and Inhibition of Amylase by Washington Navel Oranges, 250th ACS National Meeting, Boston, MA Aug. 16-20, 2015.

201. Jayaprakasha, G.K., and **Patil, B.S.** Pressurized liquid sequential and direct extraction of phytochemicals from Dancy tangerines for their comprehensive characterization by LC-DAD-ESI-HR-MS 250th ACS National Meeting, Boston, MA, Aug. 16-20, 2015.

200. Perez, J.L., Jayaprakasha, G.K., and **Patil, B.S.** A Bitter Crop with Sweet Potential for Producers and Human Health, ASHS Meeting, New Orleans, Aug 4-7, 2015.

Regional

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20. Bhattarai, S., Jha, D. K., Zhen, S., and **Patil, B. S.** (2025). Photoregulation of bioactive compounds in greenhouse-grown tomatoes. SRASHS Conference, Jan 31– Feb 1, 2025, Dallas, TX

19. Balyan S., V. Dadwal, D. Jha, and **Patil, B.S.** (2025). Probiotic-Derived Exopolysaccharide as a Natural Emulsifier for Limonene: Enhanced Stability and Antimicrobial Applications. SRASHS Conference, Jan 31– Feb 1, 2025, Dallas, TX

18. D.K.Jha, and **B. S. Patil**. 2025. Seed Nanopriming with Copper (Cu) Enhances Yield, Quality, and Potential Health-Promoting Attributes in Tomato Fruit, Southern Region ASHS Annual Meeting. Dallas, Texas, Jan 2025.

17. Dadwal, V., Jha, D. K., Cervantes, B., Balyan, S., & **Patil, B. S.** (2025). An efficient non-buffered UPLC-FLD gradient method for identifying gamma-aminobutyric acid and essential amino acids in tomatoes. SASHS-2025. Irving, Texas. January 31-February 2, 2025.

16. Biradar, K., Meyer, B. Ong, K., Crosby, K. and **Patil, B.S.** Differential metabolite responses in susceptible and resistant watermelon plants during gummy stem blight (*Stagonosporopsis cucurbitacearum*) disease development. Presented at Virtual Southern ASHS meeting, Feb 2021.

15. Corleto, K.A. Singh, J., Jayaprakasha, G.K. and Patil, B.S. Stability of Dietary Nitrate in Vegetable Juices during Storage at Different Temperatures, Presented at Southern ASHS meeting, San Antonio, Feb 5-7, 2016.
14. Perez, J.L., Jayaprakasha, G.K., Crosby, K., and Patil, B.S. Bitter Melon (*Momordica charantia*): A Potential new crop for Texas to reduce risk from diabetes, Presented at Southern ASHS meeting, San Antonio, Feb 5-7, 2016.
13. ^{ln}Patil, B.S. February, 2007. *Health maintaining properties of fruits, vegetables and nuts: Myth or Reality?* Human Nutrition Conference. College Station, TX.
12. ^{ln}Patil, B.S. February, 2007. *Pre- and Postharvest Factors Effect on Bioactive Compounds and Human Health.* Southern American Society for Horticultural Sciences. Mobile, AL.
11. **Presidential address:** Rio Grande Horticulture Society Annual Conference- Round Table Conference: Role of Higher Educational Leaders Building a Partnership to Improve Agriculture and Health: A case Study of Partnership Efforts of Valley Institutions. Edinburg, TX. January, 2007.
10. Vikram, A. J. Palmy, S. Pillai, Jayaprakasha, G.K., Patil, B.S., Inhibition of Bacterial Cell-Cell Communication and Biofilm formation by Citrus Bioactive Compounds. 61st Annual Conference of Rio Grande Horticulture Society. January, 2007. Edinburg, TX.
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5. ^{ln}Patil, B.S. *What do we Know About Grapefruit-drug Interaction?* 58th Annual Conference of the Rio Grande Valley Horticultural Society, 2004. Weslaco, TX.
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