

## PERSONAL INFORMATION

G. K. JAYAPRAKASHA, PhD  
Fellow of Agricultural & Food Chemistry, American Chemical Society  
Fellow of Royal Society of Chemistry, London, UK  
Fellow of Indian Chemistry, India  
Research Professor  
Core Leader for Bioactive Molecules unit, Vegetable and Fruit Improvement Center  
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## EDUCATION

Ph.D. Chemistry, Central Food Technological Research Institute, Mysore, India, 2004  
M.Sc. Organic Chemistry, University of Mysore, Mysore, India, 1985  
B.Sc. Chemistry, Physics, Mathematics, University of Mysore, Mysore, India, 1983

## PROFESSIONAL EXPERIENCE

### Current Position

a). Texas A&M University.....	2004-till date
Research Professor .....	2014-till date
Research Associate Professor.....	2006-2014

### Previous positions

Research Scientist, TAMU.....	2005-06
Postdoctoral Research Associate, TAMUK, .....	2004-05
b). Central Food Technological Research Institute, Mysore, India .....	1990-04
Scientist	1990-04
c). Flavour and Essences (P) Ltd, Mysore, India .....	1987-90
Supervisor	
d) Belur Alginates (P) Ltd, Mysore, India.....	1986-87
Quality Control Chemist	

## RESEARCH AND SCHOLARLY ACCOMPLISHMENTS

### Honors and Awards

- 2014 “VFIC Director’s Award of Excellence”, Texas A&M University, College Station, TX
- 2013 *Fellow of Agricultural and Food Chemistry (FAGFD-ACS)*, Division of American Chemical Society, Washington
- 2011 Recipient of “*Laljee Godhoo Samark Nidhi*” Award from Association of Food Scientists and Technologists (India), for the significant contribution in the area of food science and technology
- 2010 *Fellow of Royal Society of Chemistry (FRSC)*, Awarded from “Royal Society of Chemistry , London”, UK
- 2009 *Fellow of Indian Chemists (FIC)*, Awarded from “Institution of Chemists (India)” Kolakata 700 017, India
- 2004 Central Food Technological Research Institute “*Foundation day award*” for best Scientific and Technical contribution

### GRANTS RECEIVED

1. Daily cycling of health-relevant phytochemical content in diverse crops, by Braam, J., Patil, B.S., **Jayaprakasha, G.K.**, Dashwood, R., Funded amount \$499,428.00, Period 2014-2017, USDA-NIFA.
2. Chemoprotective effects of natural products on colonic adult stem cells, PI: Chapkin, R.S., Patil, B.S., Turner, N., Collaborators: Alaniz, R., Ivanov, I., **Jayaprakasha, G.K.**, and Zhou, B., Period Sept, 2011- Aug, 2016, # 1R01CA168312-01, amount \$20,688 to **Jayaprakasha**).
3. Designing Food for Health: Identification of monoterpenoids for the colon cancer prevention from citrus, USDA Special grant, PD: Patil, B.S., period 2010-13, 2010-34402-20875, \$1,288,975 (**Jayaprakasha**, PI, \$22,000).
4. Designing Food for Health: Designing Food for Health: Determination of the aroma compounds of *Capsicum annuum* cultivars using GC-MS, USDA Special grant, PD: Patil, B.S., period 2010-13, 2010-34402-20875, \$1,288,975 (**Jayaprakasha**, PI, \$22,000).
5. Designing Foods for Health: Potential of colon cancer chemopreventive activity of volatile oil from sour orange and lemons, USDA Special grant, PD: Patil, B.S., period 2009-10, 2009-34402-19831, \$1,291,218 (**Jayaprakasha**, PI, \$25,000).
6. Designing Foods for Health: Extraction efficiency of carotenoids from fruits and vegetables, USDA Special grant, PD: Patil, B.S., period 2009-10, 2009-34402-19831, \$1,291,218 (**Jayaprakasha**, PI, \$25,000).
7. Designing Foods for Health: Potential of colon cancer chemopreventive activity of volatile oil from sour orange and lemons, USDA Special grant, PD: Patil, B.S., period 2008-09, 2008-34402-19195, \$1,375,095 (**Jayaprakasha**, PI, \$22,000).
8. Designing Foods for Health: Development of HPLC method for the quantification of alkaloids in citrus fruits, USDA Special grant, PD: Patil, B.S., period 2008-09, 2008-34402-19195, \$1,375,095 (**Jayaprakasha**, PI, \$22,000).
9. Optimization of postharvest storage conditions to maintain fruit quality and health maintaining properties of grapefruit, PI: Patil, B.S, and Porat, R. Texas Department of Agriculture (TDA) - Texas Israel Exchange (TIE) - Israel Exchange Fund Board in

- Cooperation with the Binational Agricultural Research and Development Fund (BARD), award #TB-8056-08, period 2008-2011, \$294,000.
10. Designing Foods for Health, Development of HPLC method for the quantification of alkaloids in citrus fruits, USDA Hatch, PD: Patil, B.S., period 2007-08, 2007-118409, \$1,270,000 (**Jayaprakasha**, PI, \$34,000).
  11. The Science of Foods for health: Multi-institutional, multi-State effort for undergraduate education. USDA Higher education Challenge Grant. PD: Patil, B.S., period 2006-2010, #2006-38411-17095, \$489,929 (**Jayaprakasha**, Co-I, \$10,500).
  12. Designing Foods for Health, Studies on health beneficial effects of limes (*Citrus aurantifolia*, USDA Special grant, PD: Patil, B.S., period 2006-07, 2006-34402-17121, \$1,848,440 (**Jayaprakasha** (PI) \$126,000).
  13. Designing Foods for Health, Investigation of *Citrus aurantium* fruits for their health beneficial effects, USDA Special grant, PD: Patil, B.S., period 2005-06, 2005-34402-16401, \$1,503,805 (**Jayaprakasha**, PI, \$38,000).
  14. Bioactive phytochemicals as byproducts from agro-food industries. PI's: Sakariah, K.K., **Jayaprakasha, G.K.**, and Jena, B.S., 1997-1999, MLP 0602, funded by CFTRI, Mysore, a constituent Lab of Council of Scientific and Industrial Research, New Delhi, India.
  15. A Process for the isolation of turmeric oil enriched with Ar. Turmerone from By-product of Curcumin Manufacture. PI's: Sakariah, K.K., Jayaprakasha, **G.K.**, and Jena, B.S., 1999- 2000, MLP 1106, funded by CFTRI, Mysore, a constituent Lab of Council of Scientific and Industrial Research, New Delhi, India.
  16. Natural, Nature similar and Nature identical biomolecules – Bioactive compounds from *Garcinia* species of Northeastern region. PI's: Sakariah, K.K., Jayaprakasha, **G.K.**, and Jena, B.S., 2001-2003, MLP 1403, Funded by CFTRI, Mysore, a constituent Lab of Council of Scientific and Industrial Research, New Delhi, India.
  17. Isolation and structure elucidation of bioactive molecules from selected Indian spice (Unconventional parts of cinnamon) for food applications PI: Jagan Mohan Rao, L., **Co-PI: Jayaprakasha, G.K.** 2001-2003, Grant in Aid Project (GAP) 199, UNU-Kirin Follow-up project by United Nations University, Tokyo, Japan.
  18. Bioactive molecules from fruit rinds, PI's: Sakariah, K.K., **Jayaprakasha, G.K.**, and Singh, R.P. 2002-2003, OLP 0080, funded by CFTRI, Mysore, a constituent Lab of Council of Scientific and Industrial Research, New Delhi, India.
  19. Bioactive principles from *Garcinia* species of Northeastern and its use in development of health products, PI's: Sakariah, K.K., **Jayaprakasha, G.K.**, and Singh, R.P. 2003-2005, MLP 006, funded by CFTRI, Mysore, a constituent Lab of Council of Scientific and Industrial Research, New Delhi, India.

## TEACHING

- ❖ Trained and co-supervised eight graduate students for their research objectives on isolation, identification and quantification of health promoting compounds from fruits and vegetables for their degree program.
- ❖ Served as graduate student's committee member for ten students
- ❖ Served as external examiner for the Ph.D. thesis from Prist University, Vallam, Thanjavur, India.
- ❖ Co-supervised and trained the following seven visiting scientists on natural products research for the partial fulfillment of their international research exchange program.
- ❖ Guest Lectures

Course Name: Science of Foods for Health: TAMU-HORT 689  
Topic: Characterization of Bioactive Compounds  
Semester: Fall 2010, Fall 2012 and Fall 2014  
Hands on training: Jan 2011 for Science of Foods for Health students  
July 2014 for students and faculty at UAS, Dharwad, India.

- ❖ Supervised and trained 30 undergraduate students in the area of Natural Products Chemistry focused on isolation of bioactive compounds from various fruits and vegetables (FAV's) and their antioxidant capacity by various in vitro methods.

## **SERVICE AND OTHER SCHOLARLY, CREATIVE ACTIVITIES**

### **Invited External Grant Penal Reviewer, Journals Reviewer and Judge**

- 2013 External Reviewer, Research Corporation for Science Advancement, 4703 E. Camp Lowell Drive, Suite 201, Tucson, AZ 85712
- 2013 External Reviewer, FCT, Scientific Officer, Gabinete de Programação e Avaliação, FCT - Fundação para a Ciência e a Tecnologia Lisboa, Portugal, <http://www.fct.pt>
- 2012 External Reviewer: Bioengineering, Biotechnology and Biochemistry Call, 2012, FCT-Portugal FCT - Fundação para a Ciência e a Tecnologia, Lisboa, Portugal.
- 2011 Reviewer, National center for complementary and alternative medicine special emphasis panel, National Institutes of Health, ZAT1 - (19), NCCAM education panel, 06/23/11 - 06/24/11
- 2010 Served as Judge for the AgriLife Conference Posters competition at Texas A&M University, Jan. 14, 2010.
- 2009 Served as Judge for the AgriLife Conference Poster competition at Texas A&M University, Jan. 12, 2009.
- 2008 Served as Judge for the AgriLife Conference Poster competition at Texas A&M University, January 2008.
- 2008 Editorial Board member for Acta Horticulture 841, Proceedings of the Second International Symposium on Human health effects of fruits and vegetables, FAVHEALTH 2007, International Society for Horticultural sciences, Netherlands.

### **Editorial Board**

- 2014 External Reviewer, USDA ARS project plan
- 2013 External Reviewer, Research Corporation for Science Advancement, 4703 E. Camp Lowell Drive, Suite 201, Tucson, AZ 85712
- 2013 External Reviewer, FCT, Scientific Officer, Gabinete de Programação e Avaliação, FCT - Fundação para a Ciência e a Tecnologia Lisboa, Portugal, <http://www.fct.pt>
- 2012 External Reviewer: Bioengineering, Biotechnology and Biochemistry Call, 2012, FCT-Portugal FCT - Fundação para a Ciência e a Tecnologia, Lisboa, Portugal.
- 2011 Reviewer, National center for complementary and alternative medicine special emphasis panel, National Institutes of Health, ZAT1 - (19), NCCAM education panel, 06/23/11 - 06/24/11
- 2010 Served as Judge for the AgriLife Conference Posters competition at Texas A&M University, Jan. 14, 2010.
- 2009 Served as Judge for the AgriLife Conference Poster competition at Texas A&M University, Jan. 12, 2009.
- 2008 Served as Judge for the AgriLife Conference Poster competition at Texas A&M University, January 2008.

2008 Editorial Board member for Acta Horticulture 841, Proceedings of the Second International Symposium on Human health effects of fruits and vegetables, FAVHEALTH 2007, International Society for Horticultural sciences, Netherlands.

**Elected Leadership role in Professional Societies**

2014-till date Editorial Board member, Evidence-Based Complementary and Alternative Medicine  
2013-14 Co-Editor, Encyclopedia of Life Support Systems for Nutraceuticals and Functional Foods, EOLSS Publishers Co Ltd, Ballamoar Beg, Clenagh Road, Sandygate, Ramsey, IM7 3AE Isle of Man (IOM)  
2013-14 Co-Editor, Instrumental Methods for the Analysis of Bioactive Molecules, ACS symposium series, Oxford University press, New York.  
2013-till date Editorial Board member, Journal of Food Processing & Beverages  
2012-13 Co-Editor, Tropical and subtropical Fruits: Flavors, Color and Health Benefits, ACS symposium series 1129, Oxford University press, New York.  
2011-12 Co-Editor, Emerging Trends in Dietary Components for Preventing and Combating Disease, ACS symposium series 1093, Oxford University press, New York.  
2012-till date Editorial Board member, ISRN Chromatography  
2011-till date Editor, International Journal of Applied Research in Natural Products  
2008-10 Editorial Advisory Board Member, The Open Bioactive Compounds, Bentnum Publisher  
2007-08 Editorial board member in American Journal of Food Technology.  
2007-08 Editorial board member in Research Journal of Medicinal Plant.  
2007-08 Editorial board member in Research Journal of Phytochemistry.

**Journal Reviewer**

2014 Reviewer, Elsevier Book proposal  
2014 Reviewer, CRC Press Book Proposal  
2013-present Reviewer, J Functional Foods  
2013-Present Reviewer, PLOS ONE  
2013-present Reviewer, Mol. Biology reports  
2012-present Reviewer, J. Separation Science  
2012-present Reviewer, Current Medicinal Chemistry  
2012-present Reviewer, J. Chromatographic Science  
2011-present Reviewer, Journal of Microencapsulation  
2011-present Reviewer, Food & Chemical Toxicology  
2010-present Reviewer, Molecules  
2010-present Reviewer, Acta Pharmaceutica  
2010-present Reviewer, Spectrochimica Acta  
2010-present Reviewer, Spanish Journal of Agricultural Research  
2010-present Reviewer, The Open Bioactive Compounds Journal  
2010-present Reviewer, International Journal of Applied Research in Natural Products  
2010-present Reviewer, J. Chromatographic Science  
2010-present Reviewer, J. Pharmaceutical and Biomedical Analysis  
2009-present Reviewer, J. Food science & Technology  
2009-11 Reviewer J. Food Engineering

2008–12	Reviewer, Food Chemistry
2008-present	Reviewer, Acta Horticulture
2008–11	Reviewer, Future Medicine
2008-10	Reviewer, BMC Complementary and Alternative Medicine
2007-10	Reviewer, Natural Products communications
2007-10	Reviewer, Food Research International
2007-09	Reviewer, J. Food Science
2007-09	Reviewer, Critical Reviews in Food Science & Technology
2007-08	Reviewer, Analytical Biochemistry
2007-08	Member in Publication Committee, FAV Health 2007 conference, October 9-13, Houston, Texas
2005-present	Reviewer, Nutrition
2005-present	Reviewer, J. Applied Biomedicine
2005-10	Reviewer, LWT – Food Science and Technology

### **Professional Societies Membership**

2010-present	Member, Royal Society of chemistry, London
2009-present	Member, The American Society of Pharmacognosy
2008-2011	Member, Sigma Xi, The Scientific Research Society
2006-present	Member, American Chemical Society, AGFD, Medicinal Chemistry and Analytical Chemistry
2006-07	Member, Association of Society of Nutrition
2005-present	Member, Society of Biological Chemists (India), Bangalore, India
2005-present	Member, Association of Microbiologists of India, Mysore, India
2004-05	Member, American Society for Horticultural Science
2004-07	Member, Phytochemical society of North America
1993-present	Member, Association of Food Scientists and Technologists (India), Mysore

### **PEER-REVIWED PUBLICATIONS**

*(Underlined authors are graduate students who obtained “Natural Products Chemistry” training in Bioactive Molecules Core unit under my supervision and I served on their graduate committee; §Undergraduate students who were mentored and trained in my program; †-Visiting scientist trained on Natural products research; \*Corresponding/co-corresponding author)*

**Total Google scholar citations: 9135, H-index: 45; i10 index: 108**

1. Dev Kumar, G.; Crosby, K.; Leskovar, D.; Bang, H.; **Jayaprakasha, G.K.**; Patil, B.S and Ravishankar, S. A Surveillance of Cantaloupe Genotypes for the Prevalence of *Listeria* and *Salmonella*, *Agriculture, Food and Analytical Bacteriology*, **2015**, 5, 73-84.
2. **Uckoo, R. M.**; **Jayaprakasha, G.K.**; Vikram, A. and Patil, B. S., Polymethoxyflavones isolated from the peel of miaray mandarin (*Citrus miaray*) have biofilm inhibitory activity in *Vibrio harveyi*, *Journal of Agricultural and Food Chemistry*, **2015**, 63, 7180-7189, PMID: 26140409.

3. Zhang, L.; Shamaladevi, N.; **Jayaprakasha, G.K.**; Patil, B.; and Lokeshwar, B., Polyphenol-rich extract of *Pimenta dioica* berries (Allspice) kills breast cancer cells by autophagy and delays growth of triple negative breast cancer in athymic mice. *Oncotarget* **2015**, 30, 6, 16379-16395, PMID: 25945840.
4. Uckoo, R. M.; **Jayaprakasha, G.K.**; and Patil, B. S., Phytochemical analysis of organic and conventionally cultivated Meyer lemons (*Citrus meyeri* Tan.) during refrigerated storage. *Journal of Food Composition and Analysis* **2015**, 42, 63-70.
5. Chaudhary, P. R.; **Jayaprakasha, G. K\***, and Patil, B. S\*, Ethylene degreening modulates health promoting phytochemicals in Rio Red grapefruit. *Food Chemistry* **2015**, 188, 77-83.
6. Murthy, K. N. C., Jayaprakasha, G.K. and Patil, B.S. Cytotoxicity of obacunone and obacunone glucoside in human prostate cancer cells involves Akt-mediated programmed cell death. *Toxicology*, 2015, 329: 88-97, PMID: 25592883.
7. Chaudhary, P. R., Jayaprakasha, G.K., Porat, R. and Patil, B.S. Influence of Modified Atmosphere Packaging on 'Star Ruby' Grapefruit Phytochemicals. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 1020-1028, PMID: 25547121.
8. Kim, J.; **Jayaprakasha, G. K\***, and Patil, B. S., Obacunone exhibits anti-proliferative and anti-aromatase activity *in vitro* by inhibiting the p38 MAPK signaling pathway in MCF-7 human breast adenocarcinoma cells, *Biochimie*, **2014**, 105, 36-44, PMID: 24927687.
9. Bae, H.; **Jayaprakasha, G. K.**; Crosby, K.; Yoo, K. S.; Leskovar, D. I.; Jifon, J.; Patil, B. S., Ascorbic acid, capsaicinoid, and flavonoid aglycone concentrations as a function of fruit maturity stage in greenhouse-grown peppers. *J. Food Composition and Analysis*, **2014**, 33, 195-202.
10. Chaudhary, P. R.; **Jayaprakasha, G. K.**; Porat, R.; Patil, B. S., Low temperature conditioning reduces chilling injury while maintaining quality and certain bioactive compounds of 'Star Ruby' grapefruit. *Food Chemistry* **2014**, 153, 243-249, PMID: 24491726.
11. **Jayaprakasha, G.K.**,\* Nagana Gowda, G.A., Marquez, S., and Patil, B.S. Rapid separation and quantitation of curcuminoids combining pseudo two-dimensional liquid flash chromatography and NMR spectroscopy, *J. Chromatography*, **2013**, 937B, 25-32, PMID: 24013126, PMCID: PM3832181.
12. Chebrolu, K. K.; **Jayaprakasha, G. K.**; Yoo, K. S.; Jifon, J. L., and Patil, B. S., Purification of coumarins, including meranzin and pranferin, from grapefruit by solvent partitioning and a hyphenated chromatography, *Sep. Purif. Technol.* **2013**, 116, 137-144.
13. Vikram, A.; **Jayaprakasha, G.K.**; Uckoo, R. M. and Patil, B.S. Inhibition of Escherichia coli O157:H7 motility and biofilm by  $\beta$ -Sitosterol glucoside, *Biochimica et Biophysica Acta*, **2013**, 1830, 5219-5228, PMID:24013126.
14. Murthy, K.N.C., **Jayaprakasha, G.K\***. and Patil, B.S\*. Citrus limonoids and curcumin additively inhibit human colon cancer cells, *Food Funct.* **2013**, 4, 803-810, PMID: 23584140, PMID: 23584140.
15. **Jayaprakasha, G. K\***; Murthy, K. N.C.; Uckoo, R. M., and Patil, B. S., Chemical composition of volatile oil from *Citrus limettioides* and their inhibition of colon cancer cell proliferation. *Ind. Crops Prod.* **2013**, 45, 200-207.
16. Uckoo, R. M.; **Jayaprakasha, G. K\***, and Patil, B. S., Hyphenated flash chromatographic separation and isolation of coumarins and polymethoxyflavones from byproduct of citrus juice processing industry, *Sep. Sci. Technol.* **2013**, 48, 1467-1472.
17. Uckoo, R.M., **Jayaprakasha, G.K.**, Somerville, J.A., Balasubramaniam, V.M., Pinarte, M<sup>§</sup>., and Patil, B.S. High pressure processing controls microbial growth and minimally alters the levels of health promoting compounds in grapefruit (*Citrus paradisi* Macfad) juice, *Innov Food Sci Emerg Tech.* **2013**, 18, 7-14.

18. **Patil, J. R<sup>†</sup>;** **Jayaprakasha, G. K\*;** **Kim, J.;** Murthy, K. N. C.; Chetti, M. B.; Nam, S.-Y., and Patil, B. S., 5-Geranyloxy-7-methoxycoumarin inhibits colon cancer (SW480) cells growth by inducing apoptosis. *Planta Med* **2013**, *79*, 219-26, PMID: 23345169, This article was considered as most read paper during first 3 months, <https://www.thieme-connect.com/ejournals/topten/10.1055/s-00000058>.
19. **Kim, J.;** **Jayaprakasha, G. K\*;** and Patil, B. S., Limonoids and their anti-proliferative and anti-aromatase properties in human breast cancer cells. *Food Funct.* **2013**, *4*, 258-265, PMID: 23117440.
20. **Bae, H.;** **Jayaprakasha, G. K.;** Crosby, K.; Jifon, J. L., and Patil, B. S., Simultaneous quantification of capsaicinoids and ascorbic acid from pungent peppers. *J. Chromatogr. Sci.* **2013**, *51*, 412-418, PMID: 23081967.
21. **Vikram, A.;** **Jayaprakasha, G. K.;** Jesudhasan, P. R.; Pillai, S. D., and Patil, B. S., Obacunone represses Salmonella pathogenicity islands 1 and 2 in an envZ-dependent fashion. *Appl. Environ. Microbiol.* **2012**, *78*, 7012-7022, PMID: 22843534.
22. Somasundaram, S., Price, J., Pearce, K., Shuck, R., **Jayaprakasha, G.K.** and Patil, B.S. Citrus Limonin Lacks the Anti-chemotherapeutic Effect in Human Models of Breast Cancer, *J Nutrigenet Nutrigenomics*, **2012**, *5*, 106-114, PMID: 22907263.
23. **Uckoo, R. M.;** **Jayaprakasha, G. K.;** Balasubramaniam, V. M, B. S., Grapefruit (*Citrus paradisi* Macfad) phytochemicals composition is modulated by household processing techniques. *J. Food Sci.* **2012**, *77*, C921-C926, PMID: 22957912.
24. **Jayaprakasha, G. K\*;** Murthy, K. N. C.; **Demarais, R<sup>§</sup>;** and Patil, B. S., Inhibition of prostate cancer (LNCaP) cell proliferation by volatile components from Nagami kumquats. *Planta Med.* **2012**, *78*, 974-980, PMID: 22673830.
25. **Kim, J.;** **Jayaprakasha, G. K\*;** **Vikram, A.;** and Patil, B. S., Methyl nomilinate from citrus can modulate cell cycle regulators to induce cytotoxicity in human colon cancer (SW480) cells in vitro. *Toxicol. In Vitro* **2012**, *26*, 1216-1223, PMID: 22728232.
26. **Kim, J.;** **Jayaprakasha, G. K.;** **Uckoo, R. M.;** and Patil, B. S., Evaluation of chemopreventive and cytotoxic effect of lemon seed extracts on human breast cancer (MCF-7) cells. *Food Chem. Toxicol.* **2012**, *50*, 423-430, PMID: 22056335.
27. **Jayaprakasha, G. K\*;** Murthy, K.N.C.; **Etlinger, M<sup>§</sup>;** Mantur, S. M., and Patil, B. S., Radical scavenging capacities and inhibition of human prostate (LNCaP) cell proliferation by *Fortunella margarita*. *Food Chem.* **2012**, *131*, 184-191.
28. Vinod Kumar, Vilas, P., Sameer, G. J., Shawn, C., **Jayaprakasha, G.K.**, Patil, B.S., Kolomiets, M., Rathore, K.S., A novel, conditional, lesion mimic phenotype in cotton cotyledons due to the expression of an endochitinase gene from *Trichoderma virens*, *Plant Science*, **2012**, *183*, 86-95, PMID: 22195581.
29. Murthy, K.N.C.; **Jayaprakasha, G. K.;** and Patil, B. S., The natural alkaloid berberine targets multiple pathways to induce cell death in cultured human colon cancer cells. *Eur. J. Pharmacol.* **2012**, *688*, 14-21, PMID: 22617025.
30. Murthy, K.N.C.; **Jayaprakasha, G. K.;** and Patil, B. S., D-limonene rich volatile oil from blood oranges inhibits angiogenesis, metastasis and cell death in human colon cancer cells. *Life Sci.* **2012**, *91*, 429-439, PMID: 22935404.
31. **Chebrolu, K. K.;** **Jayaprakasha, G. K.;** Yoo, K. S.; Jifon, J. L., and Patil, B. S., An improved sample preparation method for quantification of ascorbic acid and dehydroascorbic acid by HPLC. *LWT-Food Sci. Technol.* **2012**, *47*, 443-449.
32. **Chebrolu, K. K.;** **Jayaprakasha, G. K.;** Jifon, J., and Patil, B. S., Production system and storage temperature influence grapefruit vitamin C, limonoids, and carotenoids. *J. Agric. Food Chem.* **2012**, *60*, 7096-7103, PMID: 22742827.
33. **Chaudhary, P.;** **Jayaprakasha, G. K.;** Porat, R., and Patil, B. S., Degreening and postharvest storage influences 'Star Ruby' grapefruit (*Citrus paradisi* Macf.) bioactive



- compounds. *Food Chem.* **2012**, *135*, 1667-1675, PMID: 22953908.
34. **Bae, H.; Jayaprakasha, G. K.;** Jifon, J., and Patil, B. S., Extraction efficiency and validation of an HPLC method for flavonoid analysis in peppers. *Food Chem.* **2012**, *130*, 751-758.
  35. **Bae, H.; Jayaprakasha, G. K.;** Jifon, J., and Patil, B. S., Variation of antioxidant activity and the levels of bioactive compounds in lipophilic and hydrophilic extracts from hot pepper (*Capsicum* spp.) cultivars. *Food Chem.* **2012**, *134*, 1912-1918, PMID: 23442638
  36. **Bae, H.; Jayaprakasha, G. K.;** Crosby, K.; Jifon, J. L., and Patil, B. S., Influence of extraction solvents on antioxidant activity and the content of bioactive compounds in non-pungent peppers. *Plant Foods Hum. Nutr.* **2012**, *67*, 120-128, PMID: 22569831.
  37. **Vikram, A.; Jayaprakasha, G.K.;** Jesudhasan, P.R.; Pillai, S.D., and Patil, B.S. Limonin 7-methoxime interferes with *Escherichia coli* biofilm formation and attachment in Type 1Pili and Antigen43 dependent manner, *Food Control*, **2012**, *26*, 427-438.
  38. **Vikram, A.;** Jesudhasan, P. R.; **Jayaprakasha, G. K.;** Pillai, S. D., and Patil, B. S., Citrus limonoids interfere with *Vibrio harveyi* cell-cell signaling and biofilm formation by modulating the response regulator LuxO. *Microbiology* **2011**, *157*, 99-110, PMID: 20864476.
  39. **Vikram, A.;** Jesudhasan, P. R.; **Jayaprakasha, G. K.;** Pillai, S. D.; Jayaraman, A., and Patil, B. S., Citrus flavonoid represses *Salmonella* pathogenicity island 1 and motility in *S. Typhimurium* LT2. *Int. J. Food Microbiol.* **2011**, *145*, 28-36, PMID: 21168230.
  40. **Uckoo, R. M.;** **Jayaprakasha, G. K.,** and Patil, B. S., Rapid separation method of polymethoxyflavones from citrus using flash chromatography. *Sep. Purif. Technol.* **2011**, *81*, 151-158.
  41. **Uckoo, R. M.;** **Jayaprakasha, G. K.;** Nelson, S. D., and Patil, B. S., Rapid simultaneous determination of amines and organic acids in citrus using high-performance liquid chromatography. *Talanta* **2011**, *83*, 948-954, PMID: 21147342.
  42. **Kim, J.;** **Jayaprakasha, G. K.;** Muthuchamy, M., and Patil, B. S., Structure-function relationships of citrus limonoids on p38 MAP kinase activity in human aortic smooth muscle cells. *Eur. J. Pharmacol.* **2011**, *670*, 44-49.
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## EDITED BOOKS, REVIEWS, BOOK CHAPTERS AND PROCEEDINGS

(Underlined authors are graduate students who obtained "Natural Products Chemistry" training in Bioactive Molecules Core unit under my supervision and I served on their graduate committee; §Undergraduate students who were mentored and trained in my program; †-Visiting scientist trained on Natural products research; \*Corresponding/co-corresponding author)

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1. **Jayaprakasha, G.K.** and Patil, B.S. (2015), *Nutraceuticals and Functional Foods: Chemistry and Health Promoting properties of fruits and beverages involved in prevention of chronic diseases*, Published from EOLSS Publishers Co Ltd, Ballamoar Beg, Clenagh Road, Sandygate, Ramsey, IM7 3AE Isle of Man (IOM), UK.
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### Reviews and Book Chapters

- Vikram, A., Uckoo, R.M., Murthy, K.N.C., Patil, B. S.; and **Jayaprakasha, G. K\***, Citrus: A Treasure Trove of Health-Promoting Phytochemicals, In-*Nutraceuticals and Functional Foods: Chemistry and Health Promoting properties of fruits and beverages involved in prevention of chronic diseases*, **2015**, Published from EOLSS Publishers Co Ltd, UK, (In-press).
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- Jayaprakasha, G.K\***, and Patil, B.S. (2012), Identification of Bioactive components from natural sources, IN-*Basics of Functional Foods*, DEStech Publications, pp. 175-199, **2015**, Lancaster, PA, \* Invited book chapter.
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- Jayaprakasha, G.K\*** and Patil, B. S. Quantification of Health-Promoting Compounds by Quantitative <sup>1</sup>HNMR Spectroscopy, *ACS Symp. Ser.*, **2014**, 289-302.
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## EDITOR-REVIEWED JOURNAL ARTICLES AND PROCEEDINGS

1. Patil, J.R. <sup>†</sup>, **Jayaprakasha, G.K.**, Patil, B.S. and Chetti, M.B. Antioxidant activities of kagzi lime (*Citrus aurantifolia* Swingle). *Acta Hort.* **2014**, *1040*, 381-384.
2. Kim, J., Jayaprakasha, G.K. and Patil, B.S. Lemon (*Citrus lemon* l. Burm) as a source of unique bioactive compounds. *Acta Hort.* **2014**, *1040*, 377-380.
3. Patil, B.S., Chidambara Murthy, K.N. and Jayaprakasha, G.K. Prevention of cancer by naturally occurring bioactive compounds: conventional wisdom or reality? *Acta Hort.* **2014**, *1040*, 247-254.
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## INVITED AND VOLUNTEERED PRESENTATIONS AND ABSTRACTS AT SYMPOSIUMS

*(Underlined authors are graduate students who obtained “Natural Products Chemistry” training in Bioactive Molecules Core unit under my supervision and I served on their graduate committee; <sup>§</sup>-Undergraduate students who were mentored and trained in my program; <sup>†</sup>-Visiting scientist trained on Natural products; <sup>ln</sup>-Invited presentation)*

### *International*

1. 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 5-8, 2015.
2. Patil, B.S., **Jayaprakasha, G.K.**, and Uckoo, R.M. Emerging trends in hyphenated separation and isolation technologies of naturally occurring compounds from selected fruits, vegetables and spices, presented at XXIX International Horticultural Congress: IHC2014, Brisbane. August 17-22, 2014.
3. Patil, B.S., **Jayaprakasha, G.K.**, Uckoo, R.M., and Palma, M.A. Consumers' changing perceptions of quality: revisiting the science of fruit and vegetable cultivation for improved health benefits, presented at XXIX International Horticultural Congress: IHC2014, Brisbane. August 17-22, 2014.
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### *National*

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2. **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.
3. 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.
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7. Myers, S<sup>s</sup>., Uckoo, R.M., Jayaprakasha, G.K., Wallace, R., Patil, B.S. Quality and antioxidant activity of strawberries cultivated in high tunnel in Texas. 247th ACS National Meeting, Dallas, TX, March 16-20, 2014.
8. Perez, J.L., **Jayaprakasha, G.K.**, and Patil, B.S. Separation of cucurbitane-type triterpenoids from bitter melon using flash chromatography, 246th ACS National Meeting, Indianapolis, IN, September, 8-12, 2013.
9. **Jayaprakasha, G.K.**, and Patil, B.S Simultaneous quantitation and identification of L-citrulline and sugars in watermelon samples using <sup>1</sup>H NMR, 246th ACS National Meeting, Indianapolis, IN, September, 8-12, 2013.
10. Chaudhary, P., **Jayaprakasha, G.K.**, and Patil, B.S, Headspace and solid-phase micro-extraction methods for the identification of volatile flavor compounds in grapefruits Priyanka Chaudhary, 246th ACS National Meeting, Indianapolis, IN, September, 8-12, 2013.
11. Uckoo, R.M., **Jayaprakasha, G.K.**, and Patil, B.S. Rapid hyphenated separation and identification of polymethoxyflavones in citrus fruits using UHPLC-MS coupled to electrospray time-of-flight mass spectrometry 246th ACS National Meeting, Indianapolis, IN, September, 8-12, 2013.

12. Kulkarni, A.; **Jayaprakasha, G.K.**; and Patil, B.S. Rapid determination of pyruvic acid in different varieties and cultivars of onions using microplate reader, ASHS Annual Conference, Palm Desert, CA, July 22–25, 2013.
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14. Uckoo, R., Smith, B., **Jayaprakasha, G.K.**, Pillai, S.D., Crosby, K., and Patil, B.S. Electron beam irradiation of fresh cut cantaloupe under modified atmosphere extends the shelf life and maintains the quality, ASHS Annual Conference, Palm Desert, CA, July 22–25, 2013.
15. Chaudhary, P., **Jayaprakasha, G.K.**, Patil, B.S., Influence of ethylene treatment on bioactive compounds of Rio Red grapefruit, ASHS Annual Conference, Palm Desert, CA, July 22–25, 2013.
16. Chaudhary, P., **Jayaprakasha, G.K.**, Patil, B.S, Effect of postharvest treatments on volatiles present in Rio Red grapefruit juice, ASHS Annual Conference, Palm Desert, CA, July 22–25, 2013.
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