

## **Contact Information**

Dr. Ashok Jain

Professor of Biology, Department of Natural Sciences

Room 306, BCB Building

504 College Dr.

Albany State University

Albany, GA 31705

## **Research Areas and Interests**

Epigenetics, Breast Cancer, Cell culture, Molecular Biology, Biotechnology, Synthetic Biology (Genetic Engineering), Currently transitioning to Biomanufacturing

## **Teaching**

**Cell Molecular Biology, Fundamentals of Biotechnology, Bioinformatics, Genetic Engineering, Botany, Principals of Biology**

## **Professional Experiences**

- 1. ACUE ACE (The Association of College and University Educators and The American Council on Education certified for Effective College Education**
- 2. Cancer Prevention – NIH-NCI certified training in cancer prevention**
- 3. Epigenetics – Impact of Food carcinogens and Phytonutrients interaction on gene regulation**
- 4. Human cell culture**
- 5. Plant Tissue culture, and**
- 6. Genetics and Plant Breeding**

## **Publications**

### **Book Chapter:**

1. M. Thangaraju, and Ashok Jain. 2014. microRNAs in the development and progression of breast cancer. In: MicroRNA in Development and in the Progression of Cancer; Editors: Shree Ram Singh and Pramela Rameshwar, pages 117 - 137. Publisher: Springer Science. ISBN 978-1-4899-8064-9 ISBN 978-1-4899-8065-6 (eBook); DOI 10.1007/978-1-4899-8065-6; Springer New York Heidelberg Dordrecht London.

2. Ashok Jain, 2013. Targeting Breast Cancer (Book Chapter), Signaling, Gene Regulation and Cancer, Pages: 199-222. Editors: Shree Ram Singh and Manoj K. Mishra. NOVA Science Publishes, New York [ISBN: 978-1-61942-088-5].

**Refereed Publications:** Author thirty plus Publications of international repute (such as Cancer Letters, Journal of Carcinogenesis and Mutagenesis, Toxicology Letters, Electronic Journal of Biotechnology, Plant Molecular Biology, Molecular Breeding, Plant Cell Tissue and Organ Culture, Plant Cell Report, Genetica, Japanese Journal of Breeding etc. Only few recent publications are listed:

1. **Ashok Jain**, 2019. Curcumin suppresses PhIP induced inflammatory protein expression in breast epithelial cells. Proceedings of the 110th Annual Meeting of the American Association for Cancer Research; 2019, P 2346.
2. **Ashok Jain**, 2016. Curcumin inhibit PhIP induced carcinogenicity by regulating Nrf2 and FOXO tragets. Published August 18, 2016. *J. Carcino Mutagen* 6:236.
3. **A. Jain**. 2016. Curcumin Fights Breast Cancer through NRF-2 Expression. Review Article. *Turmeric/Curcumin for Health*, 2016.
4. **Ashok Jain**, 2015. Curcumin Inhibit PhIP-Induced Carcinogenicity by Regulating Expression of BRCA-1 and P16 in Breast Epithelial Cells. *Journal of Carcinogenesis and Mutagenesis*, volume 6, Issue 4 (1-4); <http://dx.doi.org/10.4172/2518.1000236>
5. **Ashok Jain**, Abhilash Samykutty, Carissa Jackson, Darren Browning, Wendy B. Bollag, Muthusamy Thangaraju, Satoru Takahashi and Shree Ram Singh. 2015. Curcumin inhibits PhIP induced cytotoxicity in breast epithelial cells through multiple molecular targets. *Cancer Letters*, Vol. 365 (1) pp 122-131 (28 August, 2015). Doi: 10.1016/j.canlet.2015.05.017
6. Adrienne P. Stephenson, Jeffrey A. Schneider, Bryant C. Nelson, Donald H. Atha, **Ashok Jain**, Karam F. A. Soliman, Michael Aschner, Elizabeth Mazzio, Romonia Reams, 2013. "Manganese-induced oxidative DNA Damage in neuronal SH-SY5Y Cells: Attenuation of thymine base lesions by glutathione and N-acetylcystine". *Toxicology Letters*, Volume 218, Issue 3, 26 April 2013, pages 299-307.

## Recent Grants

**Brought ~\$14 million through grants to Albany State University**, some of the recent grants are as follows:

- (i) Academic Enhancement and Pipeline Improvement, Total Budget \$375,334; Department of Education (Title III), Multiple PI [April 2019 – Sept 2019]
- (ii) ASU MARC to BRIDGE, NIH MARC program, Total Budget \$1,987,672, [2012 – 2018. PD and PI]
- (iii) Translational Breast Cancer Research: A Mentor/Protégé Collaborative between Albany State University and Medical College of Georgia, DOD BCRP CDMRP, Total Budget \$1,370,565, [2010 – 2015, PD and PI].
- (iv) Title: Investigating signaling pathway of HCA induced DNA. NIH RIMI program, Total Budget - \$4,228,702, Co-PI. Research sub-project 'Interaction of dietary constituents and HCAs to understand inhibition of DNA strand breaks' BC budget \$276,738, [2010 – 2012, PI]

(v) Title: Quantifying Chemo preventive Effects of Antioxidants from HCAs in Breast Cell. Submitted to NIH Sponsored Research Program, Total budget - \$40,000. PI

(vi) Title: MBRS-RISE, NIH; Total budget - \$2,254,850, [2010 – 2014, Co-PI].

(vii) Improving Biotechnology Facility to Support Student Learning, received total \$286,899.00 (for 3 institution); each institution (including ASU) will receive \$76,988.00; [PI, Period: July 1, 2008 – June 30, 2009].

## **Awards and Honors**

1. Who is who in America recognized as Top Professional in Science 2022
2. University System of Georgia (USG) Leadership Fellow (2020)
3. Researcher of the Year 2018, Albany State University
4. Cancer Prevention Fellow, National Cancer Institute (NCI), National Institute of Health (NIH) 2019
5. Researcher of the Year 2012, Albany State University
6. Teacher of the Year 2009, Department of Natural Sciences.
7. Teacher of the Year 2008, College of Sciences and Health Professions.
8. Research Excellence Award, 2001, Florida A&M University (FAMU)
9. **Served as Organizing Committee Chair/Co-Chair for multiple international meetings:** (i) Co-Chair, 6th World Congress on Breast Cancer and Therapy, 2017 San Francisco, CA, USA.; (ii) Chair, Innovative Therapeutic Approaches in Breast Cancer, at 2nd World Congress on Breast Cancer, 2016, Phoenix, Arizona, USA; (iii) Chair: Vaccines and Cancer Prevention Mechanisms & Cancer Etiology and Epidemiology. International Cancer Study and Therapy Conference, 2016, Baltimore, USA.
10. **Reviewer – several international journals:** (i) Current Bioactive Compounds, (ii) Journal of Biomedical carcinogenesis, (iii) Journal of Carcinogenesis and Mutagenesis, (iv) Journal of Oncology, (v) Cancer Letters, (vi) Drug Design Development and Therapy, (vii) Journal of Food and Function, and (ix) Environmental Toxicology.
11. Editorial board member ,International Journal of Biotechnology & Biochemistry

## **Education**

**Ph.D. Genetics and Plant Breeding 1983, Agra University, India**

**M.S. Plant Sciences (Genetics and Plant Breeding) 1978, Agra University, India**