

Dr. Anuj Kumar Singh (B.Tech Biotechnology)

Soft Skills: CADD, DRUG DESIGNING, QSAR

Specialization

M.Tech: M.Tech. (Industrial Biotechnology), 2011, Bharath University

Ph.D: Awarded in 2019, IIT Guwahati

Area of Interest

Research: Cancer and Cancer Immunology

Publication - Books / Chapters / Papers / Articles / Blogs:

Research Articles

§ Anuj Kumar Singh, Nand Kishor Roy, Kunnumakkara AB, Sukumar P. "Calcium Channels and Oral Cancer: A short review – History to Recent Advances". *Acta Scientific Cancer Biology* 3.12 (2019): 25-29.

§ Anuj Kumar Singh, Nand Kishor Roy, Devivasha Bordoloi, Ganesan Padmavathi, Amrita Devi Khwarakpam, Sukumar P, Kunnumakkara AB. Orai1 and Orai2 regulate oral cancer cell migration and colonization by suppressing Akt/mTOR/NF-κB signaling. (Submitted).

§ Nand Kishor Roy, Javadi Monisha , Anuj Kumar Singh, Ganesan Padmavathi, Ajaikumar B. Kunnumakkara. Isoform-specific Role of Akt Kinase in Cancer and its Selective Targeting by Potential Anticancer Natural Agents (Accepted). DOI: 10.2174/2210315509666190314145257. (Citation Score: 0.42) [0.66API]

§ Nand Kishor Roy, Javadi Monisha, Ganesan Padmavathi, H Lalhruaitluanga, Nachimuthu Senthil Kumar, Anuj Kumar Singh, Devivasha Bordoloi , Frank Arfuso , Ajaikumar B. Kunnumakkara, 2019. Isoform-specific role of Akt in oral squamous cell carcinoma. *Biomolecules*, 9(7), 253. DOI: 10.3390/biom9070253. (IF: 4.694) [0.25API]

§ Devivasha Bordoloi, Kishore Banik, Ganesan Padmavathi, Rajesh Vikkurthi, Choudhary Harsha, Nand Kishor Roy, Anuj Kumar Singh, Javadi Monisha, Hong Wang, Alan Prem Kumar, Ajaikumar B Kunnumakkara, 2019. TIPE2 induced the proliferation, survival and migration of lung cancer cells through modulation of Akt/mTOR/S6/NF-κB signaling cascade. *Biomolecules*, 9, 836. DOI: 10.3390/biom9120836.

§ Prabhu, A A., Bharali B, Singh AK, Allaka M, Sukumar P, and Veeranki VD. 2018. "Engineering Folding Mechanism through Hsp70 and Hsp40 Chaperones for Enhancing the Production of Recombinant Human Interferon Gamma (RhIFN-γ) in *Pichia Pastoris* Cell Factory." *Chemical Engineering Science* 181 (May): 58–67. (IF: 3.3) [0.5 API]

§ Prabasheela B, Baskaran S, and Singh AK. 2011. Antioxidant and Lipid Peroxidation Status in Pre and Post-operative Breast Carcinoma. *International Journal of Pharma and Bio Sciences* 2(1):450-454. (Citation Score: 0.35) [1.0API]

§ Prabasheela B, Singh AK, Fatima A, Kumar P, Nayanjyoti and Kumar R, 2011. Association between

Antioxidant Enzymes and Breast Cancer. *Recent Research in Science and Technology*, 3(11): 93-95.

{Note: The impact factor (IF) and citation score is given to Scopus indexed journals only}

Posters

§ Singh AK and Sukumar P. Store Operated Calcium Entry in Oral Cancer Cell Line. 9th Indo Global Summit on Cancer Therapy. OMICS International, Hyderabad, India. (2015). [Best Poster]. [1.0 API]

§ Singh AK and Sukumar P. Store Operated Calcium Entry in Oral Cancer. Recent Developments in Medical Biotechnology and Structure Based Drug Designing, IIT Guwahati, Guwahati, India (2015).

§ Singh AK, Sukumar P and Kunnumakkara AB. Store Operated Calcium Signaling in Oral Cancer. Research Conclave'17", IIT Guwahati, Guwahati, India (2017).

§ Singh AK, Roy NK, Sukumar P and Kunnumakkara AB. Role of Curcumin in Calcium Homeostasis through Store operated calcium channels (SOCC). Second International Conference on Nutraceuticals and Chronic Diseases. Goa, India (2017). [Best Poster]. [1.0 API]

Book Chapters (Scopus Indexed) [Max. 6.0API]

§ Singh AK, Monisha J, Banik K, Harsha C, Bordoloi D and Kunnumakkara AB, 'Cancer Cell Chemoresistance and Chemosensitization in Endometrial Cancer', In *Cancer Cell Chemoresistance and Chemosensitization*. World Scientific Publications (2018).

§ Singh AK, Roy NK, Anand A, Banik K, Monisha J, Bordoloi D and Kunnumakkara AB, 'Different Methods to Inhibit Chemoresistance in Hepatocellular carcinoma ', In *Cancer Cell Chemoresistance and Chemosensitization*. World Scientific Publications (2018).

§ Monisha J, Jaiswal A, Banik K, Harsha C, Singh AK, Bordoloi D and Kunnumakkara AB. 'Cancer Cell Chemoresistance: A Prime Obstacle in Cancer Therapy', In *Cancer Cell Chemoresistance and Chemosensitization*. World Scientific Publications (2018).

§ Roy NK, Sharma A, Singh AK, Bordoloi D and Kunnumakkara AB, 'Bladder Cancer: Chemoresistance and Chemosensitization', In *Cancer Cell Chemoresistance and Chemosensitization*. World Scientific Publications (2018).

§ Padmavathi G, Bordoloi D, Banik K, Singh AK and Kunnumakkara AB, 'Mechanism of Chemoresistance in Bone Cancer and Different Chemosensitization Approaches', In *Cancer Cell Chemoresistance and Chemosensitization*. World Scientific Publications (2018).