

**Dr. Ashutosh Chauhan**

Assistant Professor

Department of Biotechnology, Faculty of Biomedical Sciences

Uttarakhand Ayurved University, Dehradun- 248001, Uttarakhand, India.

E-mail: [ashutosh\\_biotech2006@yahoo.com](mailto:ashutosh_biotech2006@yahoo.com); Mob: +919675598199**EDUCATION**

**Ph.D.** Department of Urology, Post Graduate Institute of Medical Education & Research (PGIMER) Chandigarh, India - 2009-2014.

**M.Sc.** Biotechnology, HNB Garhwal University, Srinagar, Uttarakhand, India- 2004-2006.

**B.Sc.** (Biology), GPGC Agastyamuni, HNB Garhwal University, Srinagar, Uttarakhand, India- 2000-2003.

**RESEARCH /TEACHING EXPERIENCE**

Senior Research Fellow, Department of Urology, PGIMER, Chandigarh.India.

Junior Research Fellow, Department of Urology, PGIMER, Chandigarh.India.

Research Assistant, Department of Experimental Medicine and Biotechnology, PGIMER, Chandigarh.

Dissertation from Central Salt and Marine Chemical Research Institute (CSMCRI) Bhavnagar, Gujarat

Summer training at Forest Research Institute (FRI) Dehradun, India.

Taught Research Methodology and Biostatistics to MD/MS (Ayu) student at Rishikul Ayurved College, Haridwar in 2015

**EXPERTISE**

1. Animal cell culture
2. Microbial culture
3. Molecular biology
4. Cell signaling
5. Cancer biology

**FELLOWSHIPS/ AWARDS**

1. Research fellowship by Indian Council of Medical Research (ICMR-JRF) Govt. of India in 2009.
2. International travel grant by Department of Science and Technology (DST) New Delhi, India in 2012.

3. Co- Organizing Secretary of the National Conference on Recent advances in Ayurvedic herbal medicine – From source to manufacturing sponsored by NMPB (Ministry of AYUSH) on 15 and 16 September 2017 at CSIR-IIP Dehradun.
4. Co-Principal Investigator of NMPB New Delhi funded a research project on exploring plant-derived SGLT2 inhibitors to treat type-2 diabetes and unraveling their structure activity relationship.

### **GRANT/ ONGOING PROJECT**

- 1- National Medicinal Plant Board (NMPB), New Delhi funded a National Conference project on Recent Advances in Ayurvedic Herbal Medicine: From Source to Manufacturing Completed in 2016-2017.
- 2- NMPB New Delhi funded a Research project on Exploring plant-derived SGLT2 inhibitors to treat type-2 diabetes and unraveling their structure activity relationship 2017-2020 is ongoing.

### **RESEARCH SUPERVISION**

- 1- Junior Research Fellow
- 2- Research Assistant

### **EDITORIAL EXPERIENCE**

1. Associate editor of journal “Ayurscientifica” (Uttarakhand Ayurved University, India)
2. Editor of research journal “Current medical and drug research”
3. Executive editor of “Brahmkamal Sandesh” ( a news letter published by Uttarakhand Ayurved University, India.

### **RESEARCH FIELDS OF INTEREST**

1. Molecular approaches in Ayurveda.
2. Discovery and development of Herbal Medicines.
3. Concepts of Diabetes, Inflammation and aging in Ayurveda.
4. Discovery and evaluation of anticancer agents.

### **ADMINISTRATIVE EXPERIENCE**

1. Member of Research Degree Committee (RDC) of Uttarakhand Ayurved University during 2015-16.
2. Sports In- charge at Uttarakhand Ayurved University, Dehradun, Uttarakhand, India.
3. Library In-charge of Central library at Uttarakhand Ayurved University, Dehradun.
4. Observer for various examinations of the University.
5. Examiner for Research Methodology and Biostatistics in MD/MS (Ayu) during 2015-17
6. Sports -coordinator for Inter University sports at Doon University, Dehradun in 2017
7. University coordinator for various event organized by Uttarakhand Government.

## SELECTED PUBLICATION

- 1- Ganesamoni R, Bhattacharyya S, Kumar S, **Chauhan A**, Mete UK, Agarwal MM, Mavuduru R, Kaushik G, Mandal AK, Singh SK. Status of oxidative stress in patients with renal cell carcinoma. *Journal of Urology*. 2012, 187 (4) 1172-6.
- 2- Semwal DK, Mishra SP, **Chauhan A** Semwal RB. Adverse health effects of tobacco and role of ayurveda in their reduction. *Journal of Medical Sciences*. 2015, 15 (3), 139-146.
- 3- Mishra SP, Semwal DK **Chauhan A**. Scenario of Ayurveda Education in India: Some recommendations for development. *University News- Association of Indian Universities*. 2015, 53 (42), 3-8.
- 4- **Chauhan A**, Semwal DK, Mishra SP, Semwal RB. Ayurvedic research methodology: Present status and future strategies. *Ayu*, 2015. 36,(4), 364-69.
- 5- Semwal DK, **Chauhan A** Mishra SP, Semwal RB. Recent Development in Yoga - A Scientific Perspective. *Journal of Ayush*. 2016, 5 (1), 14-20.
- 6- Semwal DK, Semwal RB, **Chauhan A**, Mishra SP. Treatment of type 2 diabetes with Ayurveda: A case report. *Pharmacologia*. 2016. 7, (4), 239-242.
- 7- **Chauhan A**, Semwal DK, Mishra SP, Semwal RB. Speckle-type POZ protein acts as a predictive biomarker for mTOR target therapy in renal cell carcinoma. *Current Science*. 2016, 111, 1-7.
- 8- **Chauhan A**, Semwal DK, Mishra SP, Goyal S, Marathe R, Semwal RB. Combination of mTOR and MAPK inhibitors - A potential way to treat renal cell carcinoma. *Medical Sciences*. 2016, 4 (4), 1-16.
- 9- **Ashutosh Chauhan**, Deepak Kumar Semwal, Satyendra Prasad Mishra, Ruchi Badoni Semwal. Yoga practice improves the body mass index and blood pressure – A randomized controlled trial *International Journal of Yoga*. 2017, 10 (2) 103-106.
- 10- **Ashutosh Chauhan**, Deepak Kumar Semwal, Satyendra Prasad Mishra, Ruchi Badoni Semwal. Ayurvedic concept of shatkriyakala: a traditional way to diagnose cancer. *Journal of Integrative medicine*. 2017, 15(2) : 88-94.
- 11- **Ashutosh Chauhan**, Deepak Kumar Semwal. Integration of medical systems can improve healthcare – Possibilities and challenges. *Ayurscientifica*. 2017, 1(1) 1-3.
- 12- **Ashutosh Chauhan**, Deepak Kumar Semwal, Ruchi Badoni Semwal and Saudan Singh. Ayurvedic approaches used in prevention and treatment of Type 2 Diabetes Mellitus. *Journal of Conventional Knowledge and Holistic health*. 2017, 1 (1), 1-15
- 13- **Ashutosh Chauhan**. Cancer diagnosis with biomarker: status and challenges. *Current Medical and Drug Research*. 2017, 1 (1),1-2.
- 14- **Ashutosh Chauhan**, Rani Ojha , Deepak Kumar Semwal, Satyendra Prasad Mishra, Semwal RB. Combined treatment with CCI779 and SB203580 induces cellular senescence in renal cell carcinoma cell line via p53 pathway, *Anticancer Agents Med Chem*. 2017; 17(11):1545-1554.

## SELECTED PUBLISHED ABSTRACT

1. **Chauhan A**, Ganesamoni R, Bhattacharyya S, Kanduja KL, Mandal AK, Singh SK. Changes in the peripheral blood ROS levels in patients undergoing surgery for renal cell carcinoma. 31<sup>st</sup> Annual Conference of Indian Association of Biomedical Scientists (IABMS), Swami Vivekanand College of Pharmacy, Tiruchengode, Tamil Nadu, India, 01 November 2010. Abstract book.
2. **Chauhan A**, Bhattacharyya S, Mandal AK, Singh SK. Speckle type POZ protein (SPOP) expression in renal cell carcinoma: Role in cancer detection. 2012 Union for International Cancer Control World Cancer Congress (UICC), Palais des Congrès Montréal, Canada 27-30 August 2012. Abstract book.
3. **Chauhan A**, Bhattacharyya S, Mandal AK, Singh SK. CCI-779 (mTOR inhibitor) alone is more effective than combination with SB203580 (p38 MAPK inhibitor) in RCC cell line, 34<sup>th</sup> Congress of the Société Internationale d'Urologie (SIU), Scottish Exhibition and Conference Centre (SECC), Glasgow, United Kingdom, 12-15 October 2014, Urology 84 (4 Supplement 1), October 2014.
4. Semwal RB, Semwal DK, **Chauhan A** Mishra SP, Antimicrobial activity and synergistic effect of essential oil from Artemisia, Citrus, Cymbopogon, Hedychium and Ocimum species, National Conference on Ayush in the lap of Himalaya. Ministry of Ayush, Government of India, PHD Chamber of Commerce, Uttarakhand, India. 17 June 2016. Souvenir.
5. **Chauhan A**, Semwal DK, Semwal RB Mishra SP, Research methodology of Ayurveda â Need of further development and strategy, Uttarakhand Ayurved sammelan, World Ayurveda Foundation, Science City, Kolkata, 1st July 2017, Souvenir
6. **Chauhan A**, Semwal D. K, Chauhan A, Semwal R. B, Mishra S. P. Ayurvedic Rasayanas – The immunity boosters for cancer patients. II Uttarakhand Ayurveda Conference organized by Ayush health India at Doon University, Dehradun, India on 1 July, 2017. Souvenir
7. Navin Chandra Suman, D. K. Semwal. **Ashutosh Chauhan**. Clinical trial for the efficacy of Carica papaya leaf extraction on platelet count. National Conference on Recent advances in Ayurvedic herbal medicine – From source to manufacturing sponsored by NMPB (Ministry of AYUSH) on 15 and 16 September 2017 at CSIR-IIP Dehradun.
8. Semwal D. K, **Chauhan A**, Semwal R. B. Scope of plant-derived SGLT2 inhibitors to treat type 2 diabetes. National conference on conservation and sustainable utilisation of high altitude medicinal and aromatic plants of Uttarakhand Himalayas, organised by SMPB, Uttarakhand and HRDI, Gopeshwar, Dehradun, India on 10-11 November 2017. Souvenir