



Education Qualification

- PhD (Biochemistry),
The M.S. University of Baroda, Gujarat, India
- M.Sc. (Biotechnology)
M.D.S. University, Ajmer, Rajasthan, India
- B.Sc. (Biology)
M.D.S. University, Ajmer, Rajasthan, India



Research Interest

Stem cell Biology, Neurology and Cancer research



Publications

- ❖ **Prajapati A, Rao A, Patel J, Gupta S, Gupta S. 2014b.**
A single low dose of cadmium exposure induces benign prostate hyperplasia like condition in rat: A novel benign prostate hyperplasia rodent model. *Exp Biol Med (Maywood)*. 2014 May 28;239(7):829-841.
- ❖ **Prajapati A, Gupta S, Bhonde R, Gupta S. 2014a.**
Pluripotent Stem Cell within the Prostate could be Responsible for Benign Prostate Hyperplasia in Human. *J Stem Cell Res Ther* 4: 2.
- ❖ **Prajapati A, Gupta S, Mistry B, Gupta S. 2013.**
Prostate Stem Cells in the Development of Benign Prostate Hyperplasia and Prostate Cancer: Emerging Role and Concepts. *BioMed Research International* 2013: 10.
- ❖ **Pandya C, Gupta S, Pillai P, Bhandarkar A, Khan A, Bhan A, Prajapati A, Gupta S. Association of Cadmium and Lead with Antioxidant Status and Incidence of Benign Prostatic Hyperplasia in Patients of Western India.** *Biol Trace Elem Res* 2013. 152:316–326
- ❖ **Pulipaka R, Singh R, Prajapati A, Gupta S, and Chakraborty D. Cu(II) Complexes of Isoniazid Schiff Bases: DNA/BSA Binding and Cytotoxicity Studies on A549 Cell Line** *Advances in Chemistry*. Vol. 2014 (2014), Article ID 630575, 14 pages



Dr. Akhilesh Prajapati

Assistant Professor,
Biological Sciences

School of Technology

- ❖ Komal Vyas, R.V. Devkar, **Akhilesh Prajapati** and R.N. Jadeja. **Pyrazolone incorporating bipyridylmetallointercalators as effective DNA, Protein and lung cancer targets: Synthesis, characterization and in-vitrobiocidal evaluation.** *Chemico-Biological Interactions (2015)* 240, 250-266.
- ❖ **Akhilesh Prajapati**, Gaurav Chauhan, Sharad Gupta, Parth Pandya, Sukhbir Kaur, Sarita Gupta **Analysis of AR, PSA (KLK) and ER- β genetic variants and Benign Prostate Hyperplasia (BPH) pathogenesis in Indian Population.** *Biomed Res J* 2016;3(1):88–103
- ❖ **Prajapati A, et al** 2018 **Oncogenic transformation of human benign prostate hyperplasia with chronic cadmium exposure (Under communication) 2018**



Academic Affiliation

- ❖ International Society for Stem Cell Research (ISSCR), USA
- ❖ Science Advisory Board, USA



Industry Experience

- ❖ DBT-BCIL industrial training at Prathista Industries_Ltd. Secunderabad, Dec 2007- May 2008.
- ❖ Technical Assistant for Genomics and Proteomics facility at DBT-MSUB-ILSPARE Programme, Faculty of Science, The M.S. University of Baroda



Academic Experience

Assistant Professor (*Adhoc*) at Cell & Molecular Biology Institute, M.S. university of Baroda, April 2014- May 2017



Courses Taught

Cell Biology, Bio-molecules, Evolution and Ecology, Industrial Microbiology, Metabolism, Animal Cell Culture, Molecular Biology, Good Laboratory Practice and Enzymology.



Conference & Seminar

- ❖ Actively Participated in Workshop on “ **the STEM Teacher Training workshop on Research- Based Pedagogical Tools (Level 1)**” jointly sponsored by

Department of Biotechnology (DBT), Govt. of India; Newton Bhabha fund of the British Council, Centre of Excellence in Science & Mathematics Education, IISER Pune supported by MHRD. From 26th Feb to 1st March, 2017 at IISER, Pune.

- ❖ Participated in two day national symposium on **“Omics...to Structural Basis of Diseases”** organized during Sept 30- Oct 1, 2016 at Department of Biochemistry, MS University of Baroda.
- ❖ Oral presentations on **“To understand the etiopathogenesis of BPH at Cellular and molecular level”** by **Akhilesh Kumar Prajapati**, Sharad Gupta and Sarita Gupta, in A two days Researchers ferret Confabulation: 4th Annual meeting on 11th-12th April, 2015 at IIT-Gandhinagar, Gujarat, India
- ❖ **Actively participated in organization** of four day stem cell workshop on **“advanced techniques in stem cell research”** from 31st Dec, 2014 to 3rd Jan, 2015 at Dr. Vikram Sarabhai Institute of Cell and Molecular Biology, Faculty of Science, The M.S. University of Baroda.
- ❖ Oral presentations on **“BPH stem cells and Epithelial-to-Mesenchymal Transition- phenotypic cells: Are they siblings?”** **Akhilesh Kumar Prajapati**, Sharad Gupta and Sarita Gupta, in A National Seminar entitled **“Evolving Concepts in Stem Cells and Regenerative Medicine”** on 27th Feb, 2014 at GCRI, Ahmadabad, Gujarat, India **(Best Oral Presentation Award)**
- ❖ Selected to Attend **“Science and Communication workshop”** organized by the **Wellcome Trust/DBT India Alliance** at Pragathi Resorts, Hyderabad on 27, 28 and 29 November, 2013.
- ❖ Poster presentation on **“Human Prostate Cell Population Derived From Benign Hyperplasia Specimen Demonstrate Pluripotent Stem Cells Properties.”** **Akhilesh Kumar Prajapati**, Nidheesh Dadheech, Sharad Gupta and Sarita Gupta. Abstract book, 11th annual meeting, ISSCR, Boston, MA, USA. 12-15th June, 2013.(**International Travel Award By DBT, India**)
- ❖ Poster presentation on **“To Assess The Possible Role of Cadmium in BPH Pathogenesis via Steroid Hormone Receptor Blocker”**, in International conference on **Reproductive Health with emphasis on strategies for family planning & 22nd annual meeting of the Indian society for the study of reproduction and fertility(ISSRF) “ ICMR Centenary celebration 1911-2011**, organized by AIIMS, at New Delhi from 19 – 21st Feb, 2012.
- ❖ Poster presentation on **Identification of novel Population of Nestin positive cells from rat Prostate for insulin Producing cell differentiation.** Nidheesh Dadheech, **Akhilesh Kumar Prajapati**, Sanket Soni and Sarita Gupta. Abstract book, 9th annual meeting, ISSCR, Toronto, Canada 2011. (abstract Published)
- ❖ Poster presentation on **“Cadmium: a Potent Benign Prostate hyperplasia inducer in rat ”**, in International conference on **MOLECULAR MEDICINE**,

organized by Charotar University of Science and Technology, Changa, Gujarat. Jan-2011

- ❖ Poster presentation on “**Association of Benign Prostate Hyperplasia with Respect to environmental Pollutant Cadmium**”, in the SRBCE Sponsored ‘**international symposium on endocrinology and Reproduction: molecular Mechanisms to Molecular Medicine**’ Organized by Jawahar Lal Nehru University, New Delhi. Feb-2010.
- ❖ Workshop on “ **Analysis of cell death in mammalian cells**” conducted by Department of Biochemistry, MS University and Laval University, Faculty of medicine, Quebec, Canada. 21st-24th Dec, 2010 at Vadodara.
- ❖ Attended a course on “ **Essentials of cell biology: cytoskeleton**” conducted by Department of Biochemistry, MS University and The University of Tennessee, Health science centre, Memphis, TN, USA. 21st-30th Dec, 2010 at Vadodara.
- ❖ Participate in the 4th world congress of International Academy of Cardiovascular Sciences, “**Bridging the gap: Basic sciences & Clinical Practice**” Organized by M. S. University of Baroda, Vadodara. Feb, 2011
- ❖ Participate in National conference on “**CME in Immunology**”, organized by Department of Biochemistry , M. S. University of Baroda, Vadodara Nov. 2009
- ❖ National seminar on ‘**Silencing the message: mi and si RNA’s**” Sponsored by SBI(I), organized by Department of Biochemistry and Microbiology, M. S. University of Baroda, Vadodara Nov. 2008.
- ❖ National workshop on” **Food Preservation**” organized by Department of Food and nutrition and



Awards & Honours

- ❖ DBT-CTEP International Travel Grant to present work at International Society for Stem Cell Research (ISSCR) 11th annual meeting, Boston, MA, USA from 12-15 June, 2013.
- ❖ Junior Research Fellowship Awarded by Department of Biotechnology, Govt. of India- under MSUB-ILSPARE Project 2011.
- ❖ Best Oral Presentation award on “BPH stem cells and Epithelial-to-Mesenchymal Transition- phenotypic cells: Are they siblings?” Akhilesh Kumar Prajapati, Sharad Gupta and Sarita Gupta, in A National Seminar entitled “Evolving

Concepts in Stem Cells and Regenerative Medicine” on 27th Feb, 2014 at GCRI, Ahmadabad, Gujarat, India.

- ❖ Best Ph.D. Thesis Award in Gujarat State by Gujarat Science Academy, Feb, 2015
- ❖ Nominated for Royan international research award in reproductive biomedicine.



0265-309-3863



akhilesh.prajapati@gsfcuniversity.ac.in

