




## Dr. Ajay K. Yadav

Title	Dr.	First Name	Ajay	Last Name	Yadav	Photograph
Designation	Asst. Professor & Prof. Ramalingaswami Fellow					
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Educational Qualifications						
Degree	Institution				Year	
Post Doctorate Fellow	Northwestern University, Chicago (USA)				Nov. 2004– Feb. 2010	
Research Associate	National Institute Of Immunology, JNU Campus, New Delhi				Nov. 2002– Oct. 2004	
Ph.D.	Jamia Hamdard University, New Delhi				2003	
Career Profile						
Year	Position			Discipline /Institute		
Nov.2002- Oct 2004	Project Associate			Neuronal Signal Transduction N.I.I., JNU Campus New Delhi, India		
Nov.2004- Aug 2007	Research Fellow			Breast Cancer biology Div. of Cancer Biology ENHRI, Evanston IL, U.S.A		
Aug.2007- March 2010 Biology	Research Associate			Oncogene/Tumor suppressor  Dept. of Neurosurgery, Fienberg School of Medicine, Northwestern University Chicago , IL. U.S.A		

**April 2010- Cont. Assistant Professor & Prof. Ramalingaswami Fellow, University of Delhi**

**Administrative Assignments**

- ❖ Member Secretary- Institutional Human Ethical Committee, April- 2013 onward
- ❖ A.C.B.R, PhD Entrance Examination (Dept. Nodal Officer) - June to July 2016
- ❖ Member of Purchase Committee , (2010- 2016)
- ❖ Additional Secretary - Human Ethical committee, (2011- 2012)
- ❖ Member of Radiation safety, 2010- 2012
- ❖ Co-ordinated M.Sc. Entrance Examination
- ❖ Cordinated PhD entrance exam (2016)
- ❖ Co-ordinated Summer Undergraduate Research Program (SURP), (2010- 2012)
- ❖ Coordinated M. Sc. Semester Exams (May 2015)
- ❖ Covennor M.Sc Practical Examination (May 2017, Nov 2017)
- ❖ Institutional Technical Committee, member (2016- onward)

**Areas of Interest / Specialization**

**Molecular oncology & cell signaling**

Study in broad to dissect out the regulatory signal transduction pathway involve in modifying splicefactor family protein; ubiquitination and deubiquitination pathway, in regulating splicing enhancer or suppressors (hnRNPA's or SRSF family).

Si RNA approach to target a novel alternative splice variants to study in wide the signal transduction pathway

**Subjects Taught**

**Subject Theory classes taught since ( July 2010 – onwards) :**

- 1) **Cell Biology** – M.Sc 1<sup>st</sup> semester syllabus
- 2) **Molecular Biology & Biotechnology** – M.Sc 2<sup>nd</sup> semester syllabus
- 3) **Molecular oncology-** M.Sc 3<sup>rd</sup> semester syllabus

**Practical Classes (2010 – onwards):**

**Molecular biology and Biotechnology – M.Sc 3<sup>rd</sup> semester syllabus**

**Research Guidance**

### **Ph.D Guidance (Awarded):**

- 1) Title: Response of chemotherapeutic drugs in glial tumor cell lines under varying oxygen concentration (Awarded)
- 2) Title: Study of circulatory MicroRNAs as biomarkers for diagnosis, prognosis and progression of breast cancer. (Awarded)

## **Publications Profile**

1. Thakur S, Grover RK, Gupta S, **Yadav AK**, Das BC. Identification of Specific miRNA Signature in Paired Sera and Tissue Samples of Indian Women with Triple Negative Breast Cancer. **PLoS One**. **2016** Jul 12;11(7):e0158946.
2. Akansha Jalota, Mukesh Kumar, Bhudev C. Das, **Ajay K. Yadav**, Kunzang Chosdol, Su brata Sinha. Synergistic increase in efficacy of a combination of 2-deoxy-d-glucose and cisplatin in normoxia and hypoxia: switch from autophagy to apoptosis.
3. **Tumor Biol.** doi:10.1007/s13277-016-5089-8. **(2016)**
4. Roberto Ferrarese, Griffith R. Harsh IV, Ajay K. Yadav, Eva Bug et al., Lineage-specific splicing of a brain-enriched alternative exon promotes glioblastoma progression. **Journal of Clinical Investigation**, May 27. pii: 68836. doi: 10.1172/JCI68836. **(2014)**
5. **Ajay Yadav**, Vidhi Vashishtha, Nidhi Joshi, and Pankaj Taneja. AR-A 014418 Used against Gsk3beta down Regulates Expression of hnRNPA1 and SF2/ASF Splicing Factors. *Journal of Oncology*, doi: **10.1155/2014/695325**. **Epub 2014 Jan 2. (2014)**
6. Markus Bredel, Denise M. Scholtens, **Ajay K. Yadav**, Angel A. Alvarez , Jaclyn J. Renfrow et al. NFKBIA Deletion in Glioblastomas. **New Eng. Journal of Medicine**, Feb **17;364(7):627-37, (2011)** **Impact Factor: 46**
7. **Ajay K Yadav**, Anagh A Sahasrabuddhe, Manjari Dimri, Prashant V Bommi, Rachana Sainger and Goberdhan P Dimri. Deletion analysis of BMI1 oncoprotein identifies its negative regulatory domain. **Mol. Cancer Jun 22;9:158 (2010)**
8. M.Bredel et al. A Network model of a cooperative land scape in Brain Tumor. (**JAMA-302(3) : 261-275, 2009.**
9. **Yadav A et al.** Monosomy of Chromosome 10 associated with dysregulation of Epidermal Growth Factor Signalling in Glioblastoma. ( **JAMA -- 302(3) : 276 -289, 2009**) **Impact Factor: 31**

10. Guo WJ, Zeng MS, **Yadav A**, Song LB, Guo BH, Band V, Dimri GP. Mel-18 acts as a tumor suppressor by repressing Bmi-1 expression and down-regulating Akt activity in breast cancer cells. **Cancer Res.** Jun 1;67(11):5083-9,2007 **Impact Factor: 8.0**
11. **Yadav A**, Kalita A, Dhillon S, Banerjee K. JAK/STAT3 pathway is involved in survival of neurons in response to insulin like growth factor and negatively regulated by suppression of cytokine signaling-3. **J. Biol. Chem.**, Vol. 280,36(9), pp- 31830-31840, 2005. **Impact Factor: 5.0**
12. Kenchappa P, **Yadav A**, Singh G, Nandana S, Banerjee K. Rescue of TNF – inhibited neuronal cells by IGF-1 involves Akt and c-Jun N-terminal kinases. **Journal of Neurosci. Res.**, Volume 76, Issue 4, p 466-474,15 May, 2004. **Impact Factor: 3.5**
13. **Yadav AK**, Paul BN, Naik S, Saxena AK, Patel DK. Human Hemaglobin shares the Bioactivities ascribed to Human Tumor Necrosis Factor- alpha. **Immunopharmacol. & Immunotoxicol.**, Vol-26, No-4, PP:1-14, 2004. **Impact Factor: 1.5**
14. Paul BN, Prakash A, Kumar S, **Yadav AK**, Mani U, Saxena AK, Sahu AP, Lal K, Dutta KK. Silica induced early fibrogenic reaction in lung of mice ameliorated by Nyctanthes arbortristis extract. **Biomed. Environ. Sci.**, Sep.; 15(3); 215-22, 2002. **Impact Factor: 1.5**

**M .Sc Dissertation and Summer trainees:**

**Till date more than Thirty students (M.Tech, M.Sc, B.Tech, B.Sc) from different institutes or Universities, been passed out after completing short duration training.**

**Conference Organization/ Presentations (in the last three years)**

- 1) Ajay K Yadav. **Role kinase inhibitors in Down regulation of splice factor**, research presentation (32<sup>nd</sup> Annual Convention of India Association for cancer Research & International Symposia: Infection & Cancer, (IACR) 13-16<sup>th</sup> Feb. 2013) conducted by Dr. B.R Ambedkar Center for Biomedical research, Delhi University, INDIA.
- 2) A. Yadav, Vidhi Vashistha. **Inhibition of Akt/Gsk3beta kinase pathway downregulate the expression of splicing factor.** (Cell Symposia : Cancer epigenomics 2013, Oct 6-8, 2013, Melia, sitges, Spain)
- 3) Invited and delivered a talk title: “Functional impact of genetic variants in cancer disease progression “ in 04<sup>th</sup> Conclave meet organized by Department of Biotechnology for Prof Ramalingaswami Fellow, 30<sup>th</sup> Jan- 1<sup>st</sup> Feb 2015 in Bhubaneswar (Orissa)

**Research Projects (Major Grants/Research Collaboration)**

1) *“Study genetic variant in cancer disease progression” Prof Ramalingaswami Fellow (2010-2015) Department of Biotechnology, New Delhi Funded*

2) Study the role of hnRNPA1 (RNA binding protein) in glioma cell drug resistance development: *DST-SERB funded (2016-2018)*

#### Awards and Distinctions

- 1) Awarded Prof. Ramalingaswami Fellow (2010) from Dept of Biotechnology, New Delhi
- 2) Travel Award for attending “American society for Cell Biology” (2009)

#### Association With Professional Bodies **NIL**

- 1) American Society of Cell Biology
- 2) India Association for Cancer Research

#### Other Activities

##### **Courses or workshops Attended:**

- ❖ Refresher Course (9<sup>th</sup> Dec to 30<sup>th</sup> Dec 2014), organized by C.P.D.H.E, Delhi University
- ❖ Orientation Course (8<sup>th</sup> June- 4 July, 2015), organized by C.P.D.H.E, Delhi University
- ❖ Human Right Course (July 6- July 11, 2015) organized by C.P.D.H.E, Delhi University
- ❖ Cancer Proteogenomics workshop (Sept 26- Sep 30, 2016), conducted by RGCB, India and Broad Institute, Harvard, MIT USA)

Signature of Faculty Member