




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)				2004 Nov. – Feb 2010	
Research Associate	National Institute Of Immunology, JNU Campus, New Delhi				2002 Nov. - 2004 Oct.	
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

- 1) Member Secretary- Institutional Human Ethical Committee, April- 2013 **onward**
- 2) **A.C.B.R, PhD Entrance Examination (Dept. Nodal Officer) - June to July 2016**
- 3) Member of Purchase Committee , (2010- 2016)
- 4) Additional Secretary - Human Ethical committee, (2011- 2012)
- 5) Member of Radiation safety, 2010- 2012
- 6) Co-ordinated M.Sc. Entrance Examination
- 7) Co-ordinated Summer Undergraduate Research Program (SURP), (2010- 2012)
- 8) **Coordinated M. Sc. Semester Exams (May 2015)**
- 9) **Covennor M.Sc Practical Examination (May 2017)**
- 10) **Institutional Technical Committee, member (2016- onward)**

#### Areas of Interest / Specialization

##### Molecular oncology & cell signaling

My research interest toward the genome wide study to understand the cancer disease evolution, which includes gene by gene analysis in search of multiple genetic aberration sites using system biology approach to identify the distinct set of genes required in all different perspective during cancer progression.

Following topics are of wide interest to study & understand more about cancer disease:

- 1) Isolation & characterization of Cancer stem cell population from different patient tumor
- 2) Genome wide analysis of isolated tumor stem cell or derived cells, in relation to drug sensitivity or resistance

## 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:**

- 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)**

### **Six- Month Dissertation or student Research training from my lab:**

2012- 2013

- 1) 2- Student summer research program (M.Tech Students) ( June - July)
- 2) 2- Student M. Tech Dissertation from Guatam Buddha University
- 3) 2- Students M. Sc Dissertation from ACBR, University of Delhi
- 4) 2- Research Fellow (trained for 6- 8 month)

2013-2014

- 1) 2- Student Summer research Program ( June- July)
- 2) 1 M.Tech Student Dissertation from Amity University
- 3) 2- Students M Sc dissertation from ACBR, University of Delhi
- 4) 2- Research Assistant (trained for 6- 8 month)

2014-2015

- 1) 2- Student Summer Research Program (June - July)
- 2) 2- M Sc dissertation from A.C.B.R, University of Delhi

3) 1- Research Training (one year)

2015-2016

- 1) 2- Student Summer Research Program (June - July)
- 2) 2- M.Sc dissertation from A.C.B.R, University of Delhi
- 3) 1- Research Training (one year)

2016- 2017

- 1) 1- B.Tech dissertation ( Feb – June 2017)
- 2) 1- M Sc Summer training (June- July 2017)
- 3) 2- Summer undergraduate trainee (SURP, June- July 2017)

2017- 2018

- 1) Three M.Sc dissertation

## 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, Subrata Sinha. Synergistic increase in efficacy of a combination of 2-deoxy-d-glucose and cisplatin in normoxia and hypoxia: switch from autophagy to apoptosis. **Tumor Biol**. doi:10.1007/s13277-016-5089-8. (2016)
- 3) 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)
- 4) **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)**
- 5) 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**
- 6) **Ajay K Yadav**, Anagh A Sahasrabudhe, 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)**
- 7) M.Bredel et al. A Network model of a cooperative landscape in Brain Tumor. (**JAMA-302(3) : 261-275, 2009.**

- 8) **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**
- 9) 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**
- 10) **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**
- 11) 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**
- 12) **Yadav AK**, Paul BN, Naik S, Saxena AK, Patel DK. Human Hemaglobin shares the Bioactivities ascribed to Human Tumor Necrosis Factor- alpha. **Immunopharmacol. & Immonotoxicol.**, Vol-26, No-4, PP:1-14, 2004. **Impact Factor: 1.5**
- 13) 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**

**Conference Paper publication:**

1) [NFKBIA Deletion in Glioblastoma Multiforme](#)

M Bredel, A Yadav, J Renfrow, D Scholtens, C Bredel, J Chandler et al.

JOURNAL OF NEUROSURGERY 113 (2), A430-A430 (2010)

2) [Deletion of NFKBIA in malignant gliomas.](#)

M Bredel, A Yadav, J Renfrow, D Scholtens, C Bredel, J Chandler et al.

ASCO Annual Meeting Proceedings 28 (15\_suppl), 2025 (2010)

3) [NFKBIA in glioblastomas: tumor suppressor and potent predictor of outcome](#)

GR Harsh, DM Scholtens, AK Yadav, JP Chandler, MS Carro, C Bredel et al.

Journal of Neurosurgery 115 (2), A404-A404 , (2011)

- 4) Aberrant splicing of Brain-enriched alternative exon eliminates tumor suppressor function and promotes oncogene function during brain tumorigenesis, M Bredel, R Ferrarese, GR Harsh, AK Yadav, E Bug, D Maticzka et al. Neuro-oncology 16 (suppl 3), iii19-iii20, (2014)
- 5) [MTR-06A STRATEGY FOR REDUCING HYPOXIA INDUCED CHEMORESISTANCE IN GLIAL CELLS](#)  
A Jalota, BC Das, AK Yadav, K Chosdol, S Sinha. Neuro-Oncology 17 (suppl 5), v125-v125(2015)
- 6) A combination of cisplatin and 2-deoxy-d glucose results in synergistic cell death in both normoxia and hypoxia by attenuation of autophagy. A Jalota, BC Das, AK Yadav, K Chosdol, S Sinha. Cancer Research 75 (15 Supplement), 1044-1044 (2015)

Conference Organization/ Presentations (in the last three years)

- 1) **Ajay K. Yadav**, Jaclyn J. Renfrow, James P. Chandler, Hannes Vogel, Branimir I. Sikic, Griffith R. Harsh, Markus Bredel. **ANXA7 Functions as a Tumor Suppressor in Human Glioblastomas**. American Society for Cell biology( 48<sup>th</sup> Annual meeting, San Francisco, Dec 13- 17, 2008)
- 2) Jaclyn J. Renfrow, **Ajay K. Yadav**, Hannes Vogel, Griffith R. Harsh, James P. Chandler, Markus Bredel. **Proximity Ligation Assay (PLA) Correlates ANXA7 Protein Abundance with Genetic Status in Glioblastomas**. American Society for Cell biology(48<sup>th</sup> Annual meeting, San Francisco, Dec 13-17, 2008)
- 3) 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.
- 4) 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)
- 5) 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 regulation of hnRNPA1 splicing factor in glioma tumorigenesis : 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:**

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

Signature of Faculty Member