

PRAVIR KUMAR, PhD

PROFESSOR AND DEAN (ALUMNI AFFAIRS)




SALIENT FEATURES OF PRAVIR KUMAR'S CV

SHORT BIOSKETCH

Dr. Pravir Kumar is working as a Professor in the Department of Biotechnology at DTU. Before joining DTU, Dr. Kumar has served

as an Associate Professor (Biosciences) and Assistant Director (Center) at VIT University, Vellore. He has obtained MS degree from BHU, Varanasi with Molecular and clinical genetics specialization, and PhD degree from J. W. Goethe University, Germany in the field of coronary artery diseases and cardiovascular physiology. Before returning to India, he has spent several years in the Neurology Department at Tufts University School of Medicine, Boston, USA as a postdoctoral fellow and later at faculty position. Until April 2016, he was holding an adjunct Faculty status in the Neurology Department at Tufts University School of Medicine (TUSM). His areas of research interest and expertise include molecular chaperone and ubiquitin E3 ligase in neurodegenerative disorders along with the aberrant cell cycle re-entry into aged neurons and muscles. He is an editorial board member in the prestigious Journal of Alzheimer's disease, and reviewers of 30 leading Elsevier, Springer, BMC, Bentham, Oxford and other reputed journals. He has published more than 60 papers in peer-reviewed journals and more than 100 abstracts in international symposium, proceedings and as an invited speaker. Until now, he has guided 08 PhD students, 30 M.Tech and more than 30 students at MS and BS levels. He has also served as a

MS (BHU, Varanasi, India)	Zoology with Molecular, Applied and Clinical Genetics specialization
PhD (Frankfurt am Main, Germany)	Cardiovascular Physiology, Medicine and Biology (Gene regulation in coronary artery diseases); Supervisor: Late Prof. Rudi Busse and Prof. Ingrid Fleming (Goethe University, Frankfurt am Main, Germany)
PDF/FACULTY (Boston, Massachusetts, USA)	Molecular Neuroscience and Aging Research (Alzheimer's and Parkinson's disease), Inclusion Body Myositis (IBM) Advisor: Prof. Henry W Querfurth; Chair: Prof. Allan H Ropper, (Harvard University, USA)
Address and links: 	25, Type V, DTU staff quarters, Delhi Technological University, Shahbad Daultapur, New Bawana Road, Delhi 110042 India. Phone number: +91-9818898622 (Cell); Nationality: INDIAN; E-mail IDs: pravir_k@yahoo.com; pravirkumar@dtu.ac.in www.dtu.ac.in/Web/Departments/BioTech/faculty/pravirkumar.php;https://scholar.google.co.in/citations?user=WVLI4i4AAAAJ&hl=en; ORCID ID: 0000-0001-7444-2344; Scopus ID: 14831447800; ISI Research ID: B-2164-2015 Specialization: Neuroscience, Molecular Medicine, Physiology, Functional genomics, Proteomics, Vascular biology, Medical Biotechnology and Drug screening

member of many national-level selection committees, including prestigious USIEF Nehru Fulbright program, Life Science Research Board- DRDO committee. He has successfully completed LSRB-DRDO funded research defense project on hypoxia induced neurodegeneration for soldiers in India. He is a life and regular member of various professional societies across the globe. Being a Dean of alumni affair, Dr. Kumar has raised approx. 6.7 crores (given or pledged) for DTU infrastructure development, endowment, fellowship, interaction, centre establishment, and MoU between DTU and overseas universities. He was also organized homecoming meet of golden and diamond jubilee along with the team which was a grand celebration in Feb 2019. Currently he has one-to-one interaction with approx. 4500 alumni.

STATS:

Publications: **56**; Book chapter: **06**; Conference and proceedings: **72**; Invited talks: **28**; PhD guided: **08**; M.Tech./M.Sc theses supervised: **>50**; B.Tech theses supervised: **18**; Citation: **1793**; h-index: **18**; i10-index: **21**; Cumulative Impact factor: **130** (approx.) Publications: Corresponding author: **26**; First author: **09**; Co-author: **15**; Conference and proceedings: (Total= 73) First author: **08**; Co-author: **25**; Corresponding author: **40**; Grant reviewed: **>150**; Manuscript peer reviewed: **>100**

RESEARCH FOCUS:

1. *To investigate the role of medicinal plant extract in the reversal of many neurodegenerative disorders and examine their role on signalling pathways.*
2. *To determine the role between Type III diabetes (Alzheimer's disease) and interlinked mechanism through insulin resistance in neuronal damage.*
3. *To elucidate the mechanism of HSPs action together with CHIP in attenuation of toxic A β peptide:* The outcome of this project gives us an idea about the co-operative action of molecular chaperones and ubiquitin E3 ligase in the defibrillation of A β ₁₋₄₂ *in vivo* condition. Furthermore, how misfolded or aggregated proteins are rescued by chaperones by changing oligomeric or fibrillar architectures to non-toxic monomers? In Kumar et al, 2007, 2012 we have shown that molecular chaperone and E3 ligase CHIP is attenuating the toxic effect of A β ₁₋₄₂ fibril and oligomers but how it is helpful to disrupt the plaque is still unsettled and requires a comprehensive investigation.
4. *To establish the involvement of Parkin and CHIP in crosstalk between AD and PD at A β level,* C-terminus Hsp70 interacting protein is a bifunctional protein and acts as a connecting link between molecular chaperone and ubiquitin-proteasome system. We have shown in cultured neurons that CHIP and Parkin significantly attenuate the toxic effect of A β ₁₋₄₂ and inhibit cell death and apoptosis (Kumar et al, 2007 HMG, Veereshwarayya et al., 2006 JBC; Rosen and Kumar et al, 2010). Hence this project will tell us the co-operative action of ubiquitin E3 ligases CHIP and Parkin in A β clearance.
5. *To dissect the role of post-mitotic cell division and activation of apoptotic pathway in aged neurons and muscles* (Kwon et al, 2014 HMG). Post mitotic cell divisions are lethal for aged neurons and muscles. We have shown that upon A β ₁₋₄₂ insult in muscles (in case of inclusion body myositis) and neurons (in case of AD and PD), different cyclins are re-expressed and obviously cells are forced to enter into the apoptotic pathway. This project will give us an idea about the signaling mechanism behind cyclin re-expression and triggering the apoptotic pathways in AD, PD and IBM.

6. *To investigate the role of E3 ligase and molecular chaperones on muscle and neurons under extreme hypoxia:* We are using acute and chronic hypoxic mice models that mimic the high-altitude condition where partial pressure of O₂ drops down significantly from 21% to 8% and disturbs the physiological homeostasis. This unbalanced physiological condition causes various health problems, including high-altitude headache (HAH), acute mountain sickness (AMS), high-altitude cerebral oedema (HACE) and cerebral cellular hypoxia. Moreover, lack of oxygen slows the reflex action, weakness of muscle and cognitive impairments. This project will tell us how different genes are activated and ubiquitinated under hypoxic conditions and what could be a possible rescue mechanism mediated by molecular chaperones and ubiquitin E3 ligase.

EMPLOYMENT, TRAINING AND EDUCATION

INSTITUTION AND LOCATION	POSITION or DEGREE RECEIVED	YEAR(s)	FIELD OF STUDY
Delhi Technological University (Formerly Delhi College of Engineering)	DEAN (Alumni Affairs)	Jan 2018-present	Senior level administration and policy making at University level
Delhi Technological University (Formerly Delhi College of Engineering)	PROFESSOR	July 2015-present	Neurobiology and Molecular Medicine
Delhi Technological University (Formerly Delhi College of Engineering)	Associate Professor	July 2012-July 2015	Neurobiology and Molecular Medicine
Adjunct Faculty, Tufts University School of Medicine, Boston, MA USA	Adjunct research instructor	August 2009-Jun 2016	Neurobiology and Molecular Medicine
VIT University, Vellore TamilNadu	Assistant Director, Centre for Medical Engineering	Jan 2011-July 2012	Neurobiology and Molecular Medicine
VIT University, Vellore TamilNadu	Associate Professor	Jan 2009-July 2012	Neurobiology and Molecular Medicine
VIT University, Vellore TamilNadu	Assistant Professor	Nov 2008- 2009	Neurobiology and Molecular Medicine
Tufts University School of Medicine Boston MA	Research Instructor in the Faculty of Medicine	2007-2008	Medicine/Neurobiology Supervisor: Henry W. Querfurth Chief: Allan H. Ropper
Tufts University School of Medicine Boston MA	Senior Research associate and Postdoctoral Fellow	2004-2007	Medicine/Neurobiology Supervisor: Henry W Querfurth Chief: Allan H. Ropper
J. W. Goethe University Frankfurt/Main, Germany	Ph.D. BAT II/2 position	2001-2004	Medicine/ Cardiology Mentors: Rudi Busse and
J. W. Goethe University Frankfurt/Main, Germany	Diploma with Thesis	1999 -2001	Molecular and Cell Biology Mentor: Lutz Nover
Banaras Hindu University Varanasi, India	MS	1997-1999	Zoology, with specializations in Molecular, Applied, and Clinical Genetics

PhD THESIS GUIDED (SINGLE SUPERVISION, *: CO-SUPERVISION)

Name	Title	Degree awarded
Kushi Anand	Characterization and screening of biomolecules for cancer therapy (single supervision)	Awarded, June, 2013 (Currently working as DBT Welcome early fellow at IISc, Bengaluru)
Sonia Angeline	Rotenone induced Parkinson's disease model and differential expression of molecular chaperones (single supervision)	Awarded, June, 2013 (Currently working as an Assistant Professor in Bengaluru)
Aditi Sarkar	Neuroprotective effect of bio molecules (Naringenin and Quercetin) under hypoxic stress conditions (single supervision)	Awarded, August 2013 (Currently working as a research Scientist at Dr. Lal Pathlabs, head office, Delhi)
Renu Sharma	Cyclin, HSPs and E3 ligase activity in cell cycle deregulation and neuro-muscular degeneration (single supervision)	Awarded, December, 2017 (Currently working as a Scientist in Pharma company, Bengaluru)
Saurabh Kumar Jha	Therapeutic action and signaling mechanism of biomolecules in neurodegenerative disorders (single supervision)	Awarded, December, 2017 (Currently working as an Assistant Professor in Sharda University, Noida, UP)
Niraj Kumar Jha	Organs damage under hypoxic stress condition and their therapeutics approaches (single supervision)	Awarded, December, 2017 (Currently working as an Assistant Professor in Sharda University, Noida, UP)
Dhiraj Kumar	Characterization, investigation and clearance mechanism of neurotoxic proteins in AD and PD (single supervision)	Provisional Degree awarded October 2019
Pooja Shrivastava (*)	Design, synthesis and characterization of novel heterocyclic ligands for biomedical imaging (joint supervision)	Provisional Degree awarded October 2019 (Currently working as Scientist D at Institute of Nuclear Medicine and Sciences, INMAS, Delhi)

KEY RESEARCH FINDINGS

1. Key lysine residues in the A β ubiquitination (Kumar and Kumar, *Journal of Alzheimer's disease*, 2019 and *Interdisciplinary Sciences: Computational Life Science*, 2019; Kumar and Kumar, *Neuropeptide*, 2019)
2. Cell cycle re-entry and cell division dysfunctioning in Alzheimer's Disease (AD), Inclusion Body Myositis (IBM) and Polymyositis patients (PM), Kwon and Kumar et al., *Human Molecular Genetics*, 2014; Sharma et al., *BBA Molecular Basis of Disease*, 2017)
3. Sesamol has neuroprotective capacity to reverse the symptoms of Parkinson's Disease (Angeline et al., 2012 & 2013, *Neuroscience*; Sarkar et al., 2012 *Brain Research*)

4. Flavonoids can rescue the hypoxia induced neurodegeneration (Sarkar et al., 2012 *Brain Research*)
5. Heat shock proteins mediated attenuation of toxic A β ₁₋₄₂ level in the brain (Kumar et al., *Human Molecular Genetics* 2007).
6. Ubiquitin E3 ligase CHIP and Parkin assisted A β ₁₋₄₂ clearance (Kumar et al., *Journal of Neurochemistry* 2012; Rosen et al., *Journal of Neuroscience Research* 2010)
7. Cell cycle re-entry and cell division dysfunctioning in Alzheimer's Disease (AD), Inclusion Body Myositis (IBM) and Polymyositis patients (PM), Kwon and Kumar et al., *Human Molecular Genetics* 2014)
8. Direct interaction of the novel Nox proteins with p22phox for the formation of a functionally active NADPH oxidase (Ambasta et al., 2004 *Journal of Biological Chemistry*)

RESEARCH, TEACHING AND ADMINISTRATIVE EXPERIENCE

2018-present	Dean	Alumni affairs, DTU
2015-present	Professor	Department of Biotechnology, Delhi Technological University (Delhi College of Engineering), Delhi
2012-2015	Associate Professor	Department of Biotechnology, Delhi Technological University (Delhi College of Engineering), Delhi
2009 -2016	Adjunct Faculty	Tufts Univ. School of Medicine, Boston, USA
2009 -2012	Associate Professor	School of Biosciences and Technology (SBST), VIT University, Vellore, India
2011-2012	Assistant Director	Centre for Medical Engineering, VIT, Vellore
2008-2009	Assistant Professor	School of Biosciences and Technology (SBST), VIT University, Vellore, India
2007-2008	Research Instructor	Department of Neurobiology, Tufts Univ. School of Medicine and Caritas St. Elizabeth's Medical Center, Boston, USA
2006-2007	Senior Research Associate	Department of Neurobiology, Tufts Univ. School of Medicine and Caritas St. Elizabeth's Medical Center, Boston, USA
2004-2006	Postdoctoral Fellow	Department of Neurobiology, Tufts Univ. School of Medicine and Caritas St. Elizabeth's Medical Center, Boston, USA
2001 2004	PhD Student	Institute for Cardiovascular Physiology, Faculty of Medicine, Goethe-University, Frankfurt am Main, Germany
1999-2001	Diploma thesis student	Department of Molecular and Cellular Biology, Faculty of Biology, Goethe-University, Frankfurt am Main, Germany
1997 - 1999	MS student (zoology)	Dept. of Zoology, Banaras Hindu University, Varanasi, India (Specialization: Molecular Biology and Clinical genetics).

Honors

2009 -	2012	LSRB-Defense Research and Development Organization grant: " <i>Functional Role of Heat Shock</i> "
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		<i>Proteins and Ubiquitin E3 Ligase under Hypoxic Stress Conditions</i> ” LSRB-200/EPB/2009 (Role: Principal investigator) recipient PROJECT COMPLETED
2004	PhD Thesis defence	“ <i>Sequencing and functional analysis of CYP2C promoter isolated from porcine coronary artery endothelial cells</i> ”, Institute for cardiovascular Physiology, Goethe University, Frankfurt, Germany. Guides Late Prof. Dr. Rudi Busse and Prof. Dr. Ingrid Fleming
2001	Diploma Thesis defence	" <i>Characterization of C-terminal domain of Heat Shock Transcription factor B1 (Hsf B1)</i> ", Department of molecular and cellular biology, Goethe University, Frankfurt, Germany. Guide: Prof. Dr. Lutz Nover

REVIEWING AND EDITORIAL ASSIGNMENTS

1. **Associate Editor**, Journal of Alzheimer's Disease (IOS)
2. **Grant reviewer**, Motor Neuron Disorders (MND), United Kingdom
3. **Editor**, International Journal of Neurology Research
4. **Editor**, International Journal of Hematology Research
5. **Editor**, Journal of Clinical Trials and Patenting
6. **Associate Editor**, American Journal of Research Communication
7. **Associate Editor**, Advances in Obesity, Weight Management & Control
8. **Editor**, International Journal of Advanced Biotechnology and Bioinformatics
9. **Academic Editor**, International journal of Bioinformatics
10. **Editor**, SOJ Biotechnology
11. **Reviewer**, Journal of Nutritional Biochemistry (Elsevier)
12. **Reviewer**, Cellular and Molecular life Science (Springer)
13. **Reviewer**, BBA-Molecular Basis of disease (Elsevier)
14. **Reviewer**, Behaviour Brain Research (Elsevier)
15. **Reviewer**, Brain Research (Elsevier)
16. **Reviewer**, Life Sciences (Elsevier)
17. **Reviewer**, Bentham Direct
18. **Reviewer**, Journal of Agricultural and Food Chemistry (ACS publication)
19. **Reviewer**, PlosOne
20. **Reviewer**, Neural Regeneration Research
21. **Reviewer**, DARU journal of Pharmaceutical Sciences (BMC journal)
22. **Reviewer**, Cellular and Molecular Neuroscience (Springer journal)
23. **Reviewer**, Current Medicinal Chemistry (Bentham)
24. **Reviewer**, Journal of Genetics (Springer)
25. **Reviewer**, Environmental Research (Elsevier)
26. **Reviewer**, Cellular Physiology and Biochemistry (KARGER)
27. **Reviewer**, Neurochemistry International (Elsevier)
28. **Reviewer**, Brain, Behaviour and Immunity (Elsevier)
29. **Reviewer**, Journal of Young Pharmacy
30. **Reviewer**, Oncotarget
31. **Reviewer**, Translational Neurodegeneration (BMC/Springer)
32. **Reviewer**, Indian Journal of Medical Research

33. **Reviewer**, Annals of Clinical and Translational Neurology (Wiley)

HONORARY MEMBER

1. **Specialist panel**, Soldier Health & Drug Development (SH&DD) Panel, DRDO
<https://www.drdo.gov.in/drdo/English/indexCorpDir.jsp?pg=Specialist.jsp&dir=LSRB>
2. **Member**, National selection committee USIEF-Fulbright program
3. **Grant Reviewer**, SERB-DST Board, Government of India
4. **Faculty expert**, e-PG Pathshala (an initiative of UGC and MHRD, Government of India)
P-04. Genetic Engineering and recombinant DNA technology: (36 Modules)
Online course development
https://epgp.inflibnet.ac.in/view_f.php?category=1030
Please select module 3; 11; 22; 23; 24; 26.

ADMINISTRATIVE ASSIGNMENTS

1. *Dean*- Alumni affairs (01/01/2018- present; Liaisoning between alumni and DTU, active role in fund raising, within a year Rs. 6.7 (given or pledged) crores fund raised for infrastructure development and fellowship endowment. Creation of many alumni databases (around 4000 plus one-to-one interaction with alumni); organization of Homecoming meet for Golden (1969) and Diamond (1959) Jubilee batches. Close interaction with alumni association and DTU, MoU between University of Georgia Athens USA and DTU, revived the previous MoU between University of Houston Texas USA and University of South Florida, USA).
2. *Member selection committee*: Assistant professor (Biotechnology)- contractual and regular-2014
3. *Vice Chairman and admission officer* in B.Tech and core committee member of Joint Admission Committee 2014 (JAC 2014, 2015), DTU
4. *Course coordinator* and B. Tech. Biotechnology curriculum moderator 2015
5. *Warden*, Sir C. V. Raman Hostel, DTU (Jan 2015-March 2015)
6. *PhD coordinator* 2014-15 of Department of Biotechnology, DTU
7. *HOD in-charge*, Department of Biotechnology (December 2013, 2014), DTU
8. *Departmental Research Committee* (DRC) member, Department of Biotechnology, DTU
9. *Departmental Purchase Committee* (DPC) member, Department of Biotechnology, DTU
10. *Examination and practical superintendent* (2014), Department of Biotechnology, DTU
11. *TEQIP-II coordinator*, Department of Biotechnology, DTU
12. *M.Tech. and PhD coordinator* (2013-14), Department of Biotechnology, DTU
13. *M.Tech. program coordinator*, Biomedical Engineering, Department of Biotechnology, DTU
14. *Time table coordinator* (2013-14), Department of Biotechnology, DTU
15. *Core committee member*, Culture council, Delhi Technological University, DTU
16. *Anti-ragging squad committee member*, Delhi Technological University, DTU
17. *Assistant Director*, Centre for Medical Engineering, VIT University Vellore (January 2011-June 2012)
18. *Research Program Coordinator*, School of biosciences and Technology, VIT University (April 2010-2011)

PEER REVIEWED PUBLICATIONS

Cumulative impact factor of all publications = 135 (approx.); h-index: 18; i-10:23
Cumulative citation index = 1836

<https://www.ncbi.nlm.nih.gov/myncbi/1DW465XG9bp5p/bibliography/public/>

PUBLICATIONS AS A PROFESSOR OF BIOTECHNOLOGY

[*: Corresponding author]

1. Dhiraj Kumar and Pravir Kumar*(2019), A β , Tau, and α -Synuclein aggregation and integrated role of PARK2 in the regulation and clearance of toxic peptides, Accepted 13th September, **Neuropeptide** [https://doi.org/10.1016/j.npep.2019.101971]
2. Dhiraj Kumar and Pravir Kumar*(2019), *Integrated mechanism of Lysine 351, PARK2 and STUB1 in A β PP ubiquitination*, **Journal of Alzheimer's Disease** (IOS) Accepted **IF: 3.7** [*: Corresponding author]-[https://www.ncbi.nlm.nih.gov/pubmed/30958363]
3. Ambasta RK, Gupta R, Kumar D, Bhattacharya S, Sarkar A, Pravir Kumar. (2019) *Can luteolin be a therapeutic molecule for both colon cancer and diabetes?* **Briefing in Functional Genomics** (Oxford) Volume 18, Issue 4, July 2019, Pages 230-239 [https://www.ncbi.nlm.nih.gov/pubmed/30462152] **IF: 3.4**
4. Pooja Srivastava, Pravir Kumar and Anjani Tiwari (2019), Modified benzoxazolone (ABO-AA) based SPECT probes for 18 kDa TSPO Article **Drug Development and Research** DOI: 10.1002/ddr.21547 (Wiley) **IF: 2.65** [https://www.ncbi.nlm.nih.gov/pubmed/31184784]
5. Pooja Srivastava, Neelam Kumari, Dipti Kakkar, Ankur Kaul, Pravir Kumar and Anjani K Tiwari (2019) Comparative evaluation of 99mTc-MBIP-X/11[C] MBMP for visualization of 18 kDa translocator protein, *Accepted Manuscript New Journal of Chemistry*, https://doi.org/10.1039/C9NJ00180H **IF: 3.22** (RSC)
6. Pooja Srivastava, Pravir Kumar and Anjani Tiwari (2019), Design, synthesis and in silico evaluation of methyl 2-(2-(5-bromo/chloro-2-oxobenzooxazol-3(2H)-yl)acetaamido-3-phenylpropanoate for TSPO targeting, *Accepted Radiochemistry* (Springer)
7. Dhiraj Kumar, Pravir Kumar*(2019) An *In-Silico* Investigation of Key Lysine Residues and Their Selection for Clearing off A β and Holo-A β PP Through Ubiquitination. **Interdisciplinary Science: computational life science**. 2018 Sep 7. doi: 10.1007/s12539-018-0307-2. **IF: 1.44** (Springer) [*: Corresponding author] 30194628.https://www.ncbi.nlm.nih.gov/pubmed/30194628
8. Chauhan S, Manivasagam G, Pravir Kumar, Ambasta RK. (2018) *Cellular Toxicity of Mesoporous Silica Nanoparticle in SHSY5Y and BM-MNCs Cell*. **Pharmaceutical Nanotechnology** 6(4):245-252. [https://www.ncbi.nlm.nih.gov/pubmed/30381088]
9. Niraj Kumar Jha, Saurabh Kumar Jha, Renu Sharma, Dhiraj Kumar, Rashmi K Ambasta, Pravir Kumar*(2018), "*Hypoxia induced signaling activation in Neurodegenerative Diseases: Targets for new therapeutic strategies*", **Journal of Alzheimer's Disease**(IOS) 2018;62(1):15-38. **IF: 3.78** doi: 10.3233/JAD-170589; https://www.ncbi.nlm.nih.gov/pubmed/29439330 [*: Corresponding author]
10. Rashmi K Ambasta, Harleen Kohli, Pravir Kumar (2017), "*Multiple Therapeutic Effect of Endothelial Progenitor Cell regulated by drugs in Diabetes and Diabetes related disorder*", in press, August 2017, **Journal of Translational Medicine**, (Springer)Aug 31;15(1):185. doi: 10.1186/s12967-017-1280-y. **IF: 4.3** https://www.ncbi.nlm.nih.gov/pubmed/28859673

11. Renu Sharma, Dhiraj Kumar, Niraj Kumar Jha, Saurabh Kumar Jha, Rashmi K. Ambasta, Pravir Kumar*(2017), Re-expression of cell cycle markers in aged neurons and muscles: whether cell should divide or die? ***Biochimica et Biophysica Acta, (BBA Molecular Basis of disease)***; Biochim Biophys Acta. 2017 Jan;1863(1):324-336 (Elsevier); *invited manuscript*; [*: Corresponding author] IF: **5.4**, [<http://www.ncbi.nlm.nih.gov/pubmed/27639832>]
12. Saurabh Kumar Jha, Niraj Kumar Jha, Dhiraj Kumar, Renu Sharma, Abhishek Srivastava, Rashmi K. Ambasta, Pravir Kumar*(2017), "Stress-induced synaptic dysfunction and neurotransmitter release in Alzheimer's disease: Can neurotransmitter and Neuromodulator be potential therapeutic targets?" 2017;57(4):1017-1039, (invited manuscript; Special issue: Neurotransmitters and Alzheimer's disease) Article in press ***Journal of Alzheimer's Disease*** (IOS) Impact factor: **3.78** [*: Corresponding author]
13. Saurabh Kumar Jha, Niraj Kumar Jha, Dhiraj Kumar, Rashmi K. Ambasta, Pravir Kumar*(2017), Linking mitochondrial dysfunction, metabolic syndrome and stress signaling in Neurodegeneration, ***Biochimica et Biophysica Acta, BBA Molecular Basis of disease***; (Invited manuscript; Special issue: Oxidative Stress and Mitochondrial Quality in Diabetes/Obesity and Critical Illness Spectrum of Diseases) May;1863(5):1132-1146.; (Elsevier) IF: **5.4** [*: Corresponding author]. [<http://www.ncbi.nlm.nih.gov/pubmed/27345267>]
14. Niraj Kumar Jha and Pravir Kumar*(2017), Biomolecules mediated targeting of Vascular Endothelial Growth Factor in neuronal dysfunction: An in silico approach, ***Asian Journal Pharmacy and Clinical Research***, Article in press, Vol.10 September Issue [*:Corresponding author]
15. Niraj Kumar Jha and Pravir Kumar*(2017), "Molecular docking studies for the comparative analysis of different biomolecules to target Hypoxia inducible factor-1 α ", ***International Journal of Applied Pharmaceutics***, Article in press, Vol 9 Issue 4, July 2017. [*:Corresponding author]
16. Renu Sharma, Pravir Kumar*(2017), Neuroprotective role of bimeclizolol in ectopic cell cycle in Parkinson's disease: new insights, ***Asian Journal Pharmacy and Clinical Research***, Vol 10, Issue 6, 2017, 1-4 [*:Corresponding author]
17. Renu Sharma, Pravir Kumar*(2017), Repurposing HSP70 Inducing Compounds for Targeting Post-Mitotic Cell Division: Novel Promises as Neuroprotectants; ***J. Chem. Pharm. Res.***, 2017, 9(3):373-384 [*:Corresponding author]
18. Saurabh Kumar Jha, Pravir Kumar*(2017), *An in silico study of Naringenin mediated neuroprotection in Parkinson's disease*, ***Asian Journal Pharmacy and Clinical Research***, Vol 10, Accepted [*:Corresponding author]
19. Saurabh Kumar Jha, Pravir Kumar*(2017), Molecular docking study of neuroprotective plant-derived biomolecules in Parkinson's disease, ***International Journal of Pharmacy and Pharmaceutical Sciences***, Vol. 9 (9), 2017 [*:Corresponding author]
20. Pooja Srivastava, Ankur Kaul, Himanshu Ojha, **Pravir Kumar**, Anjani K Tiwari (2016), Design, synthesis and biological evaluation of methyl-2-(2-(5-bromo benzoxazolone)acetamido)-3-(1H-indol-3-yl)propanoate: TSPO ligand for SPECT, Accepted ***RSC Advances***, 2016, **6**, 114491-114499; IF: **3.289** <http://pubs.rsc.org/en/content/articlelanding/2016/ra/c6ra19514h#divAbstract>
21. Saurabh Kumar Jha, Niraj Kumar Jha, **Pravir Kumar** and Rashmi K Ambasta (2016), Molecular Chaperones and Ubiquitin Proteasome System in Tumor Biogenesis: An Overview, ***Journal of Cell Biology and Cell Metabolism***, 3: 010

22. Pravir Kumar*, Dhiraj Kumar, Saurabh Kumar Jha, Niraj Kumar Jha, Rashmi K Ambasta (2016), "Ion channels in neurological disorders" 2016;103:97-136 (Invited manuscript). **Advances in Protein Chemistry and Structural Biology**, IF: **3.04** [*: Corresponding author; <http://www.ncbi.nlm.nih.gov/pubmed/26920688>] PUBLICATION AS AN ASSOCIATE PROFESSOR OF BIOTECHNOLOGY
23. Niraj Kumar Jha, Saurabh Kumar Jha, Dhiraj Kumar, Noopur Kejariwal, Renu Sharma, Rashmi K Ambasta and Pravir Kumar*(2015), Impact of IDE and Neprilysin in Alzheimer's Disease biology: Characterization of putative cognates for therapeutic applications. **Journal of Alzheimer's Disease** 2015, 48(4):891-917; IF: **3.78** [*: Corresponding author; <http://www.ncbi.nlm.nih.gov/pubmed/26444774>]
24. Rashmi K. Ambasta, Saurabh Kumar Jha, Dhiraj Kumar, Renu Sharma, Niraj Kumar Jha, and Pravir Kumar (2015) Comparative study of anti-angiogenic activities of luteolin, lectin and lupeol biomolecules, September 2015, 18;13:307, **Journal of Translational Medicine**, (Springer) Impact factor: **4.3** [<http://www.ncbi.nlm.nih.gov/pubmed/26385094>]
25. Pravir Kumar*, Niraj Kumar Jha, Saurabh Kumar Jha, Karunya Ramani and Rashmi K Ambasta (2015), Tau phosphorylation, molecular chaperones, Ubiquitin E3 ligase: clinical relevance in Alzheimer's disease, 2015;43(2):341-61; **Journal of Alzheimer's Disease**, IF: **3.78** [*: Corresponding author] [<http://www.ncbi.nlm.nih.gov/pubmed/25096626>]
26. Rajat Gupta, Piyush Sawhney, Rashmi K Ambasta and Pravir Kumar*(2015), Obesity and Neurodegeneration, **Advances in Obesity, Weight Management & Control** (AOWMC), 2 (5), 029 [*: Corresponding author]
27. Saurabh Kumar Jha, Niraj Kumar Jha, Rohan Kar, Rashmi K Ambasta, Pravir Kumar*(2015), p38 MAPK and PI3K/AKT signaling in Parkinson's disease, **International Journal of Molecular and Cellular Medicine** (IJMCM), Spring 2015, Vol 4, No 2, page 1-20 [*: Corresponding author]
28. Arivarasan A., Soni Krishna, Shivangi Yadav, Harshit Rajesh Shah, Pravir kumar, Rashmi Kumar Ambasta (2015), Synergy of bone marrow transplantation and curcumin ensue protective effect at early onset of diabetes in mice, Jul;7(4):473-84, **Journal of Diabetes**, (Wiley) IF: **3.1** [<http://www.ncbi.nlm.nih.gov/pubmed/25060836>] [Key article in Global Medical Discovery]
29. Dhiraj Kumar, Sakshi Sharma, Sagar Verma, Pravir Kumar and Rashmi Kumar Ambasta (2015), Role Of wnt-p53-Nox Signaling Pathway In Cancer Development And Progression, **British Journal of Medicine and Medical Research**, 8(8):651-676; 2015 ISSN: 2231-061
30. Dhiraj Kumar, Sakshi Sharma, Sagar Verma, Pravir Kumar and Rashmi Kumar Ambasta (2015), Molecular signaling saga in tumour biology, **Journal of Tumor** (ISSN 1819-6187), 18, 3(2):309-313
31. Dhiraj Kumar, Rashmi K Ambasta and Pravir Kumar*(2014), Mutational consequences of aberrant ion channels in neurological disorders, Nov;247(11):1083-127., **The Journal of Membrane Biology** (Springer), Impact factor: 2.47 [<http://www.ncbi.nlm.nih.gov/pubmed/25119057>] [*: Corresponding author]
32. Niraj Kumar Jha, Saurabh Kumar Jha, Rohan Kar, Rashmi K Ambasta and Pravir Kumar*(2014), Role of oxidative stress, ER stress and Ubiquitin Proteasome system in neurodegeneration, 07/2014; 01(2).1-10; **MOJ Cell Science and Report**. [<http://medcraveonline.com/MOJCSR/MOJCSR-01-00010.pdf>]

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58. Rohan Gupta, Rashmi K Ambasta, Pravir Kumar*(2019), Pharmacological Relevance of Histone Deacetylase Enzymes in the Neurodegenerative Disorders, *Submitted*
59. Rohan Gupta, Rashmi K Ambasta, Pravir Kumar*(2019), Identification of novel Class I and Class IIb Histone Deacetylase Inhibitor for Alzheimer's therapeutics using machine learning based virtual screening, *Submitted*
60. Ankita Arora, Rashmi K Ambasta, Pravir Kumar*(2019), Screening and designing of KIF5A like motor proteins in Amyotrophic Lateral Sclerosis (ALS), *Submitted*

BOOK CHAPTERS (Signaling, gene regulation and cancer, Nova Science Publishers, New York, USA; INVITED: ISBN: 978-1-61942-088-5;

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2. Pravir Kumar*, Rashmi K Ambasta, M. Sonia Angeline Inbakumari and Mandar Bhattacharya, (2012) *Post-mitotic expression of cyclins in neuro-oncogenesis: a fatal journey by cells* Signaling, Gene Regulation and Cancer, 255 - 286 (*corresponding author)
3. Rashmi K Ambasta, Pravir Kumar*, Archita Sharma and Esther Priyadarshini S. (2012) *Notch Signalling regulates cancer stem cells and tumour angiogenesis*, Signaling, Gene Regulation and Cancer, 223 - 254 (*co-corresponding author).
4. Rashmi K. Ambasta, Dhiraj Kumar, Piyush Sawhney, Rajat Gupta, Parul Yadav, Pooja Pabari and Pravir Kumar*(2016) *Epigenesis in Colorectal Cancer: A lethal change in the cell*, Epigenetic Advancements in Cancer, Edited by Manoj Mishra, Kumar Bishnupuri, 12/2015: chapter Book Chapter; Springer International publishing AG DOI: 10.1007/978-3-319-24951-3 http://www.springer.com/in/book/9783319249490
5. Ankit Tripathi, Renu Sharma, Noopur Kejriwal, Rashmi K Ambasta and Pravir Kumar*(2016), *Epigenetic post transcriptional mutation in neuro-oncology*, Epigenetic Advancements in Cancer, Edited by Manoj Mishra, Kumar Bishnupuri, 12/2015: chapter

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INVITED PRESENTATIONS

1. Pravir Kumar (**2019**), Ubiquitination mechanism in Alzheimer's and other neurodegenerative disorders, International Conference on " Frontiers in Neuroscience and Neurochemistry: Dynamic Challenges and Approaches, 33rd Annual Meeting of Society for Neurochemistry (SNCI-ACNN, Jamia Hamdard, October 10-13, 2019), [**Conference speaker and SESSION CHAIRED**]
2. Pravir Kumar (**2019**), Ubiquitin E3 ligases, stress proteins, biomolecules and Neurodegenerative disorders, Department of Biomedical Engineering, University of South Florida, USA 05th March 2019
3. Pravir Kumar (**2019**), Physiological and pharmacological stimulus in the Neurodegenerative disorders, Department of biomedical engineering, Cullen College of Engineering, University of Houston, Texas, USA, 04th March 2019
4. Pravir Kumar (**2018**), Ubiquitin proteasome system in neurodegenerative disorders, International conference on emerging researches in bioscience (ICERB), Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur (CG) India October 28-30, 2018
5. Pravir Kumar (**2018**), Characterization and mechanistic role of biomolecules in the reversal of stress induced neurodegeneration Informatics tools in Drug discovery and Drug delivery (ITDDD-2018)-1st to 4th November
6. Pravir Kumar (**2018**), TEQIP-III sponsored short term training programme on Health, Human values, ethics and Empowerment programme on Recent Developments in translational medicine (RDTM-2018) April 13-18, 2018 at Delhi Technological University (DTU) India
7. Pravir Kumar (**2018**), TEQIP-III sponsored one week Faculty Development programme on Recent Developments in translational medicine (RDTM-2018) March 12-16, 2018 at Delhi Technological University (DTU) India
8. Pravir Kumar (**2017**), World Neurocongress-2017, An international conference on Neurodegeneration and stem cell therapy, 9-10th December 2017, Aligarh Muslim University (AMU) India
9. Pravir Kumar (**2017**), Biogenesis V conducted by IILM-CET, Greater Noida, India on "Insights and innovations in biotechnology", 2-3 August 2017
10. Pravir Kumar (**2017**), Characterization and mechanistic role of biomolecules in the reversal of stress induced neurodegeneration, IIIT-Delhi 3rd March <http://ccb.iiitd.ac.in/CCB-group-meeting.html>
11. Pravir Kumar (**2016**), Physiology behind neurodegenerative disorders, National Conference on Innovation in life science and environment Recent Trends in Biotechnology, Madhya Pradesh Council of Science and Technology (MPCST), VISM, Gwalior 17-18 December [**KEYNOTE SPEAKER**]

12. Pravir Kumar (**2016**), Relevance of Biomedical Engineering in Neuronal Pathophysiology National Conference on Recent Trends in Biotechnology, Madhya Pradesh Council of Science and Technology (MPCST), VISM, Gwalior 30-31 January [**KEYNOTE SPEAKER**]
13. Differential expression of stress and neuro protective proteins under the influence of flavonoids (**2015**) 29th Annual Conference of Society for Neurochemistry India and Advancement in computation Neurochemistry and Neurobiology (SNCI-ACNN), December 19-21, 2015, NEHU Shillong [**Conference speaker and SESSION CHAIRED**]
14. Pravir Kumar (**2015**), Restoration of protective neuroproteins and reversal of symptoms under stress induced neurodegeneration, International Symposium on Neuroscience research from mechanism to application, XXXIII Annual Conference of the Indian Academy of Neurosciences, October 31- November 02, Punjab University, Chandigarh, INDIA [**Symposium speaker**]
15. Pravir Kumar (**2015**), Therapeutic relevance of ubiquitin E3 ligase, molecular chaperones and bioflavonoids in neurodegenerative disorders, 6th World congress on biotechnology, New Delhi, October 5th -7th, 2015 [Invited Speaker and Chaired the Session: Biotechnology in health care]
16. Pravir Kumar (**2015**), Clinical application of protective proteins and biomolecules in neurodegenerative disorders, Centre for Interdisciplinary Research in Basic Sciences, JMI University (07/08/2015) University Jamia Millia Islamia, New Delhi, 5th May to 25th May, 2015
17. Pravir Kumar (**2015**), Therapeutic approaches in neurodegenerative disorders through biomolecules and Engineering tools, UGC-Academic Staff College, University Jamia Millia Islamia, New Delhi, 5th May to 25th May, 2015
18. Pravir Kumar (**2015**), Impact of Biomedical Engineering in Neurosciences“2nd workshop on advanced materials and instrumentation in Bio medical engineering (AMIBE 2015), IIIT, Allahabad
19. Pravir Kumar (**2014**), Pathophysiology behind Alzheimer’s Disease, TEQIP-II sponsored two weeks FDP on Frontiers in Chemical and Polymer Sciences 15th-26th December, 2014; DTU, Delhi
20. Pravir Kumar (**2014**), Abrogated cell cycle entry and neuro-muscular degeneration: a lethal move by cell. International Symposium on Translational Neuroscience and XXXII Annual Conference of the Indian Academy of Neurosciences, 01-03 November, NIMHANS Bangalore, INDIA
21. Pravir Kumar (**2013**), Computational analysis of signaling and protein-protein interaction network in Diabetes, NCRTPSB 2013, JMI 16-18 December, INDIA
22. Pravir Kumar (**2013**), Therapeutic role of biomolecules in Parkinson’s disease, International conference of Recent advances in molecular mechanism of neurological disorders, February, 2013, All India Institute of Medical Sciences (AIIMS), New Delhi, INDIA (Invited Speaker and Chaired the Session)
23. Pravir Kumar (**2013**), Clinical implication and reversal of hypoxia induced neurodegeneration using flavonoids, National conference on “Emerging trends and Challenges in the Basic and Translational Research in Biochemistry February 4-5, 2013, Banaras Hindu University, Varanasi, INDIA
24. Pravir Kumar (**2012**), Molecular Chaperones and Ubiquitin E3 Ligase mediated attenuation of β -amyloid, International interdisciplinary science conference -2012 on protein folding and diseases December 8-10, 2012, Jamia Milia Islamia University, Delhi, INDIA.

25. Pravir Kumar (2012), "Co-operative action of molecular chaperones, proteasome and E3 ligase on beta-amyloid precursor proteins processing" 3rd international conference of bioinformatics and system biology (INCOBS), 16-18 th February, Annamalai University, Chidambaram, TN, INDIA
26. Pravir Kumar (2012) Ubiquitin proteasome system and Neurodegenerative disorders: Does Parkin Ubiquitinate A beta 1-42? 26th Annual meeting of Society for Neurochemistry, India (SNCI)" 9th -11th January, Nagpur, INDIA (Plenary lecture)
27. Pravir Kumar. (2011) Enhanced level of cyclins Enhanced expression of cyclins and caspases in inclusion body myositis (IBM) and Alzheimer's diseases (AD), 25th Annual meeting of Society for Neurochemistry, India (SNCI) Silver jubilee celebrations and International Symposium on "Metabolic signaling in Brain in health and Disease" 7th - 9th January, Hyderabad, INDIA
28. Pravir Kumar (2009) Involvement of molecular chaperones and cross functional ligase CHIP and Parkin in Alzheimer's and Parkinson's disease. International conference on Neuroscience Update; Department of Neuroscience, Cochin University of Science and Technology, Kerala, December, INDIA
29. Pravir Kumar (2009) Molecular mechanism of chaperones and ubiquitin E3 ligase in neurodegenerative disorders, National Conference on biotechnology for human development, Society for Biotechnologists India (SBTI), Vellore, November INDIA

CONFERENCE AND SYMPOSIUM PRESENTATIONS

(*: Corresponding author)

1. Rahul Tripathi and Pravir Kumar (2019), Predicting genes and pathways influenced by Apolipoprotein E4 (APOE4) in Alzheimer's disease, 33rd Annual Meeting of Society for Neurochemistry (SNCI), Jamia Hamdard, October 10-13, 2019
2. Rohan Gupta and Pravir Kumar (2019), mi-RNA regulatory pathway network and associate biomarkers in Alzheimer's Disease, 33rd Annual Meeting of Society for Neurochemistry (SNCI), Jamia Hamdard, October 10-13, 2019
3. Dia Advani and Pravir Kumar (2019), Protective role of c-Abl inhibitors in neurological disorders: An *in silico* drug repurposing approach, 33rd Annual Meeting of Society for Neurochemistry (SNCI), Jamia Hamdard, October 10-13, 2019
4. Asmita Jaiswal and Pravir Kumar, Analysis of differentially expressed genes (DEG) and metal toxicity in Alzheimer's Disease, 33rd Annual Meeting of Society for Neurochemistry (SNCI), Jamia Hamdard, October 10-13, 2019
5. Chitranjan Mukherjee and Pravir Kumar (2019), Therapeutic relevance of mi-497/IGF-1 interaction in Alzheimer's disease, 33rd Annual Meeting of Society for Neurochemistry (SNCI), Jamia Hamdard, October 10-13, 2019
6. Diksha Semwal and Pravir Kumar (2019), Pharmacological modeling and mTOR signaling mechanism in neurodegenerative disorders, 33rd Annual Meeting of Society for Neurochemistry (SNCI), Jamia Hamdard, October 10-13, 2019
7. Shruti Thareja and Pravir Kumar (2019), Usage of biomolecules from medicinal plants for neurodegeneration purposes, 33rd Annual Meeting of Society for Neurochemistry (SNCI), Jamia Hamdard, October 10-13, 2019
8. Niraj Kumar Jha and Pravir Kumar*, (2015), Interaction of target drug molecules in hypoxia mediated neurodegeneration, 29th Annual Conference of Society for Neurochemistry India

- and Advancement in computation Neurochemistry and Neurobiology (SNCI-ACNN), December 19-21, 2015, NEHU Shillong [*Oral presentation*]
9. Saurabh Kumar Jha and Pravir Kumar*(2015), Comparative analysis of biomolecules in Parkinson's disease therapeutics, 29th Annual Conference of Society for Neurochemistry India and Advancement in computation Neurochemistry and Neurobiology (SNCI-ACNN), December 19-21, 2015, NEHU Shillong [*Oral presentation*]
 10. Dhiraj Kumar and Pravir Kumar*, (2015), Functional lysine residues in A β clearance, 29th Annual Conference of Society for Neurochemistry India and Advancement in computation Neurochemistry and Neurobiology (SNCI-ACNN), December 19-21, 2015, NEHU Shillong [*Oral presentation*]
 11. Alka Raina, Saurabh Kumar Jha, Niraj Kumar Jha, Dhiraj kumar, Rashmi K Ambasta and Pravir Kumar*(2015), Putative transcription factor binding elements of ubiquitin E3 ligase in neurodegenerative disorders, 29th Annual Conference of Society for Neurochemistry India and Advancement in computation Neurochemistry and Neurobiology (SNCI-ACNN), December 19-21, 2015, NEHU Shillong [Poster presentation]
 12. Abhisekh Srivastava, Puspendramani Mishra, Dhiraj kumar, Saurabh Kumar Jha, Niraj Kumar Jha, Rashmi K Ambasta and Pravir Kumar*(2015), Relevance of terpenoids and alkaloids in neuroprotection, 29th Annual Conference of Society for Neurochemistry India and Advancement in computation Neurochemistry and Neurobiology (SNCI-ACNN), December 19-21, 2015, NEHU Shillong [Poster presentation]
 13. Swati Sharan, Niraj Kumar Jha, Saurabh Kumar Jha, Dhiraj kumar, Rashmi K Ambasta and Pravir Kumar*(2015), Post-translational modification mechanism in Parkinson's disease pathology, 29th Annual Conference of Society for Neurochemistry India and Advancement in computation Neurochemistry and Neurobiology (SNCI-ACNN), December 19-21, 2015, NEHU Shillong [Poster presentation]
 14. Minal Singh, Niraj Kumar Jha, Saurabh Kumar Jha, Dhiraj kumar, Rashmi K Ambasta and Pravir Kumar*(2015), *In silico* characterization of holo A β PP promoter and its transactivation modules 29th Annual Conference of Society for Neurochemistry India and Advancement in computation Neurochemistry and Neurobiology (SNCI-ACNN), December 19-21, 2015, NEHU Shillong [Poster presentation]
 15. Abhishek Srivastava, Puspendra M Mishra, Saurabh Kumar Jha, Niraj Kumar Jha, Rashmi K Ambasta and Pravir Kumar (2015), *In silico* analysis cannaboids in neurodegeneration, 6th World congress on biotechnology, New Delhi, October 5th -7th, 2015
 16. Pushpendra Mani Mishra, Abhishek Srivastava, Niraj Kumar Jha, Rashmi K Ambasta (2015), Microbial involvement in cause and treatment of Alzheimer's disease, 6th World congress on biotechnology, New Delhi, October 5th -7th, 2015.
 17. Pushpendra Mishra, Abhishek Srivastava, Dhiraj Kumar, Rashmi K Ambasta and Pravir Kumar*(2015), Genetic Aberrations in Neurodegenerative disorders: A molecular link between Parkinson's and Huntington's disease. International Congress on Friedreich's ataxia and DNA structure in Health and Disease, AIIMS, New Delhi, 11-13 April, 2015
 18. Abhishek Srivastava, Pushpendra Mishra, Dhiraj Kumar, Rashmi K Ambasta and Pravir Kumar*(2015), Role of DNA damage and repair defects in Neurodegenerative disorders. International Congress on Friedreich's ataxia and DNA structure in Health and Disease, AIIMS, New Delhi, 11-13 April, 2015
 19. Dhiraj Kumar, Niraj K. Jha, Saurabh K. Jha, Renu Sharma, Kushi Anand, Rashmi K. Ambasta and Pravir Kumar*(2014), Anti cancerous drugs as a neuroprotectant: a therapeutic intervention in neurodegenerative disorders, International Symposium on

Translational Neuroscience and XXXII Annual Conference of the Indian Academy of Neurosciences, 01-03 November, NIMHANS Bangalore, INDIA

20. Saurabh Kumar Jha, Niraj Kumar Jha, SatyaPrakash, M. Sonia Angeline, Rashmi K. Ambasta and Pravir Kumar*(2014), *In silico* study of flavonones in neurodegenerative disorders, International Symposium on Translational Neuroscience and XXXII Annual Conference of the Indian Academy of Neurosciences, 01-03 November, NIMHANS Bangalore, INDIA
21. Niraj Kumar Jha, Saurabh Kumar Jha, Satya Prakash, M. Sonia Angeline, Rashmi K. Ambasta and Pravir Kumar*(2014), Physiological stress in neurodegeneration: Interatomic partners based on *In silico* study, International Symposium on Translational Neuroscience and XXXII Annual Conference of the Indian Academy of Neurosciences, 01-03 November, NIMHANS Bangalore, INDIA
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23. Saurabh kumar Jha, Niraj kumar Jha, Rashmi K. Ambasta and Pravir Kumar*(2013), Structurally and functionally analyzed new generation anti-aging neuroprotective drugs, NCRTPSB 2013, JMI 16-18 December, INDIA Journal of Protein and Proteomics, Vol.4, No.2 p62
24. Niraj kumar Jha, Saurabh kumar Jha, Rashmi K. Ambasta and Pravir Kumar*(2013) Computer assisted protein analysis in hypoxia signaling, NCRTPSB 2013, JMI 16-18 December, INDIA Journal of Protein and Proteomics, Vol.4, No.2 p37
25. Dhiraj, Rashmi K. Ambasta and Pravir Kumar*(2013), *In silico* mutational analysis of voltage gated sodium (Nav1.7) ion channel: therapeutic intervention in diseases, NCRTPSB 2013, JMI 16-18 December, INDIA Journal of Protein and Proteomics, Vol.4, No.2 p42
26. Rohan Kar, Rashmi K. Ambasta, and Pravir Kumar*(2013), Computational analysis and drug targeting in neurodegeneration via Notch signaling, NCRTPSB 2013, JMI 16-18 December, INDIA, Journal of Protein and Proteomics, Vol.4, No.2 p43
27. Rashmi K Ambasta and Pravir Kumar (2013), Computer assisted nano-drug design for cancer therapy, 09-11 December, Bioworld Conference, IIT Delhi, Delhi, INDIA
28. Niraj kumar Jha, Lakshmi, Binod Koirala, Saurabh kumar Jha, Renu Sharma, Rohan Kar, Dhiraj, Jitendra Singh, Rashmi K. Ambasta and Pravir Kumar*; (2013), Identification and validation of key Ubiquitin E3 ligases in type II diabetes: An in silico work; 09-11 December, Bioworld Conference, IIT Delhi, Delhi, INDIA
29. Rohan Kar, Jitendra Singh, Rashmi K. Ambasta, and Pravir Kumar*; (2013) Computational analysis of Notch signalling related Therapeutic targets in glioma and Breast Cancer, 09-11 December, Bioworld Conference, IIT Delhi, Delhi, INDIA
30. Saurabh kumar Jha , Niraj kumar Jha, Deepak Rathore, Rashmi K. Ambasta and Pravir Kumar*(2013), Traditional FDA approved anti-cancerous drugs versus new anti-cancerous drugs: A computational approach, 09-11 December, Bioworld Conference, IIT Delhi, Delhi, INDIA
31. Dhiraj, Satya Prakash, Noopur Kejariwal and Pravir Kumar, Rashmi K. Ambasta (2013); Role of Luteolin in inhibiting the angiogenesis mediated cancer, 09-11 December, Bioworld Conference, IIT Delhi, Delhi, INDIA
32. Renu Sharma, AnkitTripathi, Sagar Verma, Sakshi Sharma, Pravir Kumar and Rashmi K Ambasta (2013); Crosstalk between cancer stem cell markers, chemotherapy and nanoparticles in cancer diagnostics and therapeutics, 09-11 December, Bioworld Conference, IIT Delhi, Delhi, INDIA

33. Ajanma Singh, Jyoti Parmar, Rashmi.K. Ambasta and Pravir Kumar*(2013), "Possible role of mdm2 and dorfin E3 ligase in Parkinson's disease (PD), 22 March, IIT Roorkee, India.
34. Pooja Kesari , Rashmi K. Ambasta and Pravir Kumar*(2013), Computational analysis of ubiquitination sites of impaired protein in neurodegeneration International conference of Recent advances in molecular mechanism of neurological disorders, February, 21-23, All India Institute of Medical Sciences (AIIMS), New Delhi, INDIA
35. Mayank Malhotra, Bhumesh Tanwar, Vishal Singhal, Rashmi K. Ambasta and Pravir Kumar*(2013), Development and analysis of protein - protein interaction network for neuroblastoma and identification of drug targets using *in silico* knockout analysis International conference of Recent advances in molecular mechanism of neurological disorders, February, 21-23, All India Institute of Medical Sciences (AIIMS), New Delhi, INDIA
36. Prerna Jain, Rashmi K Ambasta and Pravir Kumar*(2013), Role of epigenetic modification in neurological disorders, International conference of Recent advances in molecular mechanism of neurological disorders, February, 21-23, All India Institute of Medical Sciences (AIIMS), New Delhi, INDIA
37. Ankita Gupta , Himani Gupta, Neha Nagpal, Rashmi K Ambasta and Pravir Kumar*(2013), p21 in brain tumour progression and therapeutic interventions, International conference of Recent advances in molecular mechanism of neurological disorders, February, 21-23, All India Institute of Medical Sciences (AIIMS), New Delhi, INDIA
38. Monika Samnat, Rashmi K Ambasta and Pravir Kumar*(2013), Protein Quality control in Endoplasmic reticulum and Neurodegeneration International conference of Recent advances in molecular mechanism of neurological disorders, February, 21-23, All India Institute of Medical Sciences (AIIMS), New Delhi, INDIA
39. Dhiraj, Ambasta K. Rashmi, Kumar Pravir* (2013), Intricacies of scn9a gene mutation in causing primary erythro melalgia (pem), paroxysmal extreme pain disorder (pepd) and congenital insensitivity to pain (cip), International conference of Recent advances in molecular mechanism of neurological disorders, February, 21-23, All India Institute of Medical Sciences (AIIMS), New Delhi, INDIA
40. J Uniyal, M Kandpal, A Moral, Rashmi K Ambasta and P Kumar* (2013), Differential signalling in glial tumors: Potential target for cancer therapy International conference of Recent advances in molecular mechanism of neurological disorders, February, 21-23, All India Institute of Medical Sciences (AIIMS), New Delhi, INDIA
41. Gaurav Rana, Pooja Kesari, Rashmi K Ambasta and Pravir Kumar*(2012), Interactomics of ubiquitin E3 ligase and lysine residues in neurodegenerative disorders IISC-2012, Protein Folding and Disease, December 8-10, 2012, Jamia Milia Islamia University, Delhi (*corresponding author Poster presentation), INDIA
42. Unnati Goel, Dhiraj, Pooja Kesari, Rashmi K. Ambasta and Pravir Kumar*(2012), Angiogenic Signaling and HSP90 Inhibitors in Breast Carcinoma IISC-2012, Protein Folding and Disease, December 8-10, 2012, Jamia Milia Islamia University, Delhi (*corresponding author Poster presentation), INDIA
43. Prerna Jain, Monika Samant, Ajanma Singh, Rashmi K. Ambasta and Pravir Kumar*(2012), ER stress signaling pathway in neurodegenerative disorders. IISC-2012, Protein Folding and Disease, December 8-10, 2012, Jamia Milia Islamia University, Delhi (*corresponding author Poster presentation), INDIA
44. Kushi Anand, Gaurav Rana, Rashmi K Ambasta and Pravir Kumar*(2012), Quercetin elicits inhibition of tumour progression in cancer induced mice and its underlying mechanism. Carcinogenesis meeting 17-19 November, Delhi (*corresponding author Poster presentation),

INDIA.

45. Kushi Anand, Gaurav Rana, Rashmi K Ambasta and Pravir Kumar*(2012), Oral administration of catechin hydrate does not attenuate tumour progression in EAC induced carcinoma mice model Carcinogenesis meeting 17-19 November, Delhi (*corresponding author; Poster presentation), INDIA.
46. S. Angeline, Kushi Anand, A. Sarkar, K. Singh, K. Shah, Priya Chatterjee, R. K. Ambasta, Pravir Kumar*. (2012) Neuroprotective Effect of Naringenin in Rotenone induced model of Parkinson's Disease. 2012-S-7373-SfN (*Poster presentation in the annual meeting of Society of Neuroscience*, Oct 17, 2012, New Orleans, Poster # 856.04/F43; *corresponding author) USA.
47. A. Sarkar, S. Angeline, Kushi Anand, P. Asthana, R. K. Ambasta, Pravir Kumar*(2012), Neuroprotective effect of flavanoids in hypobaric hypoxia in murine model. 2012-S-7393-SfN (*Poster presentation in the annual meeting of Society of Neuroscience*, Oct 17, 2012, New Orleans, Poster # 903.15/XX16; *corresponding author) USA.
48. K. K. Singh, S. Angeline, Kushi Anand, K. Shah, D. Shah, M. Shah, Priya Chatterjee, R. K. Ambasta, Pravir Kumar*(2012) Protective role of Naringenin on muscle degeneration in PD model. 2012-S-7584-SfN (*Poster presentation in the annual meeting of Society of Neuroscience*, Oct 17, 2012, New Orleans, Poster # 51.10/F30; *corresponding author) USA.
49. P. Asthana, A. Sarkar, S. Angeline, Kushi Anand, N. Jaiswal, S.K. Jha, N.K. Jha, Priya Chatterjee R. K. Ambasta, Pravir Kumar*(2012), Protective effect of naringenin on hypoxia induced muscles degeneration. 2012-S-7580-SfN (*Poster presentation in the annual meeting of Society of Neuroscience*, Oct 17, 2012, New Orleans, Poster # 903.16/XX17/F43; *corresponding author) USA.
50. Rashmi K Ambasta, A. Arivarasan, Krishna Soni, Shivangi Yadav, Priya Chatterjee and Pravir Kumar*, (2012) Protective effect of bone marrow transplantation and Curcumin administration on diabetic brain 2012-S-280.17/QQ16-SfN (*Poster presentation in the annual meeting of Society of Neuroscience*, Oct 14, 2012, New Orleans, 280.17/QQ16; *corresponding author), USA.
51. Kunal Kumar Singh, Sonia Angeline, Aditi Sarkar and Rashmi K Ambasta, Pravir Kumar*, (2012), Neuroprotective Effect of Sesamol and Naringenin in Rotenone induced model of Parkinson's Disease, *Oral presentation*, 3rd international conference of bioinformatics and system biology (INCOBS), 16-18 th February, Annamalai University, Chidambaram, TN, *corresponding author), INDIA.
52. Aditi Sarkar, Sonia Angeline, Kunal Kumar Singh, Pallavi Asthana, Rashmi K Ambasta and Pravir Kumar*, (2012) Neuroprotective effect of Naringenin in hypoxic mice, *Oral presentation*, 3rd international conference of bioinformatics and system biology (INCOBS), 16-18 th February, Annamalai University, Chidambaram, TN, corresponding author), INDIA.
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54. Sonia Angeline, Kunal Kumar Singh, Rashmi K Ambasta and Pravir Kumar*, (2012) Rotenone induced rodent model of Parkinson's disease with debilitating phenotypes and neurodegeneration *Oral presentation* 3rd international conference of bioinformatics and system biology (INCOBS), 16-18th February, Annamalai University, Chidambaram, TN, *corresponding author) INDIA.

55. Pravir Kumar and Rashmi K Ambasta, Cross-functional E3 ligase parkin and CHIP in A β clearance (2012), XXIX annual conference of Indian Academy of Neuroscience, January 2012, New Delhi (*corresponding author) INDIA.
56. Kushi Anand, Aditi Sarkar, Karunya R, Rashmi K. Ambasta and Pravir Kumar*(2012), Combined Effect of Naringenin and Curcumin in Ehrlich Ascites Carcinoma mice model. 31st Annual Convention of Indian Association for Cancer Research (IACR) and an International Symposium on 'Cancer Genomics and Its Impact in the Clinics' from 26 - 29 January 2012, ACTREC, Navi Mumbai, J. cancer Res and Therapeutics January Vol 8, S22-35: (*corresponding author) INDIA.
57. Kushi Anand, Pallavi Asthana, Anup Kumar, Rashmi K. Ambasta and Pravir Kumar*(2012), Quercetin elicits inhibition in Dalton's Lymphoma Ascites (DLA) induced solid tumour progression, 31st Annual Convention of Indian Association for Cancer Research (IACR) and an International Symposium on 'Cancer Genomics and Its Impact in the Clinics' from 26-29 January 2012, ACTREC, Navi Mumbai, J. cancer Res and Therapeutics January Vol 8, S22-35: (*corresponding author) INDIA.
58. Sonia Angeline, Kushi Anand, Ganesh Mansingh Lad, Priya Chaterjee, Rashmi K Ambasta, Henry W Querfurth and Pravir Kumar*(2011), Rotenone induced rodent model of Parkinson's disease with debilitating phenotypes and differential expression of HSPs (SFN meeting, poster presentation; 2011-S-1945-sfn; 13.11.11; Session 145; (*corresponding author), USA.
59. Aditi Sarkar, Kushi Anand, Priya Chaterjee Mandar Bhattacharya, Abhidha Kohli, Sonia Angeline M Inbakumar, Rashmi K Ambasta, Henry Querfurth and Pravir Kumar*(2011), Comparative analysis of molecular chaperones and E3 ligase in mice organs under hypoxic condition with significant neurodegeneration, (SFN meeting, poster presentation; 2011-S-1619-sfn; 15.11.11; Session 669; (*corresponding author), USA.
60. Mandar Bhattacharya, Abhidha Kohli, Aditi Sarkar, Priya Chaterjee, Kushi Anand, Sonia Angeline M Inbakumar, Rashmi K Ambasta, and Pravir Kumar*(2011), Histopathological changes, neurodegeneration and caspase activation in mice brain upon acute and chronic hypoxic stress condition, (SFN meeting, Poster presentation, 2011-S-2035-sfn; 15.11.11; Session 669; (*corresponding author). USA.
61. Abhidha Kohli, Mandar Bhattacharya, Aditi A. Sarkar, Kushi Anand, Sonia Angeline M Inbakumar, Rashmi K Ambasta, and Pravir Kumar*(2011), Comparative analysis of E3 ligase CHIP and Hsp70 in brain and muscles under hypoxic condition (SFN meeting, Poster presentation, 2011-S-2029-sfn; 15.11.11; Session 669; (*corresponding author), USA.
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63. Arivarasan A., Harshit R Shah, Shivangi Yadav, Pravir Kumar and Rashmi K Ambasta, (2011) "Combined effect of bone marrow transplantation and oral Curcumin administration on Streptozotocin induced diabetes mice," Poster Presentation "2nd International Conference on Stem Cells and Cancer (ICSCC-2011): Proliferation, Differentiation, and Apoptosis" from 15th-18th October, Pune, INDIA.
64. Soni Krishna, Shivangi Yadav, Pravir Kumar, Rashmi K. Ambasta; (2011) "Effect of Bone Marrow Transplantation on Heart Damage in Streptozotocin induced Mice", NCRM-NICHI Nichi-In Centre for Regenerative Medicine. Annual Meeting on Stem Cells & Regenerative Medicine, Chennai, INDIA.

65. Arivarasan A., Harshit Shah, Pravir Kumar, Rashmi K. Ambasta; (2011) “Combined effect of bone marrow transplantation and curcumin on streptozotocin induced diabetes” NCRM-NICHI, Nichi-In Centre for Regenerative Medicine. Annual Meeting on Stem Cells & Regenerative Medicine Chennai, INDIA
66. Harshit Shah, Arivarasan, Pravir Kumar, Rashmi K. Ambasta (2011), “Protective effect of bone marrow transplantation on streptozotocin induced diabetes” NCRM-NICHI 2011, Nichi-In Centre for Regenerative Medicine. Annual Meeting on Stem Cells & Regenerative Medicine Chennai, INDIA
67. Priyadharshini ES, Pravir Kumar and Ambasta RK, (2011), Luteolin is a potential anti-angiogenic drug for cancer therapy, XXXVI Annual conference on environmental Mutagen society of India (EMSI) and International symposium on environmental exposures to mutagens and carcinogens on human health Feb 4-6, Vellore (*Recipient of third prize for best poster presentation*), INDIA
68. Kishore RS., Priyadharshini ES., Sarkar A, Baluapuri A, Anand K, Ambasta RK and Pravir Kumar*, (2011), Lower dose of scorpion (*Mesobuthus tamulus*) venom elicit anti-cancerous property and enhances apoptosis. XXXVI Annual conference on environmental Mutagen society of India (EMSI) and International symposium on environmental exposures to mutagens and carcinogens on human health Feb 4-6, Vellore (poster presentation; *corresponding author), INDIA.
69. Anand K, Kumar A, Sarkar A, Ambasta RK and Pravir Kumar*,(2011), Quercetin and Catechin elicit anti-angiogenic activities, XXXVI Annual conference on environmental Mutagen society of India (EMSI) and International symposium on environmental exposures to mutagens and carcinogens on human health Feb 4-6, Vellore (poster presentation; *corresponding author), INDIA.
70. Han-Kyu Lee, Pravir Kumar, Gangjian Qin, Tohru Kitada, Kenneth M. Rosen, Qinghao Fu, Jon Degnore, Charbel E-H Moussa, Henry W. Querfurth (2010), Parkin reverses intracellular beta-amyloid accumulation and its negative effects on proteasome function, 18th Annual Hospital Research Celebration, RIH, Providence, USA.
71. H. K. Lee, Pravir Kumar, G. Qin, T. Kitada, K. M. Rosen, Q. Fu, C. E. Moussa and H. W. Querfurth, H. W.:(2009), Parkin reverses intracellular beta-amyloid accumulation and its negative effects on proteasome function. 10/17– 21/2009 Neuroscience Meeting, Chicago, Illinois, (Poster presentation), USA.
72. H.K. Lee, C. Moussa¹, G. Qin, T. Kitada, K.M. Rosen, Pravir Kumar, Q. Fu and H.W. Querfurth (2009), Parkin reverses intracellular β -amyloid accumulation and its negative effects on proteasome function. September 15, 7th Annual Alzheimer’s Research Day Boston University School of Medicine, Boston, (Poster presentation), USA.
73. Pravir Kumar, Qinghao Fu, Han-Kyu Lee, Henry Querfurth (2007) Cell Cycle Re-entry and the Role of Molecular Chaperones in β -Amyloid Laden Skeletal Muscle Cells and Alzheimer’s Disease Brain. TUFTS University A Research Day on Translational Research: Applying Discovery. November 29, 2007
74. Pravir Kumar, Fu Q, Lee H-K, Querfurth HW.(2008), Cycle Re-entry and the Role of Molecular Chaperones in β -Amyloid Laden Skeletal Muscle Cells and Alzheimer’s disease Brain. Annual Research day for Caritas St. Elizabeth’s Medical Center and Tufts university school of Medicine), Boston, March (Oral presentation), USA.
75. Pravir Kumar, Querfurth HW. (2007), Cytoprotection and abrogation of cell cycle re-entry by cyclin inhibitors and molecular chaperones in β -amyloid producing muscle cells, annual meeting of Society for Neuroscience, San Diego, CA, November (Poster presentation), USA.

76. Pravir Kumar, Fu Q, Lee H-K, Querfurth HW (2007),. Cell Cycle Re-entry and the Role of Molecular Chaperones in β -Amyloid Laden Skeletal Muscle Cells and Alzheimer's disease Brain. TUFTS University Research Day on Translational Research: Boston, March (Poster presentation), USA.
77. Pravir Kumar, Ambasta RK, Rosen KM, Kosik KS, Band H, Querfurth HW (2005), Interaction of molecular chaperone C-terminus Hsc70 interacting protein (CHIP) with β -Amyloid Precursor Proteins" Annual meeting of Society for Neuroscience, Washington DC, November (Oral presentation), USA.
78. Pravir Kumar, Ambasta RK, Rosen KM Querfurth HW. (2005), Direct interaction of C-terminus Hsc70 interacting protein (CHIP) with amyloid precursor proteins. Annual Research day for Caritas St. Elizabeth's Medical Center (Tufts university school of Medicine), Boston, March (Poster presentation), USA
79. Charbel Moussa, Qinghao Fu, Pravir Kumar, Wendy Robinson, Alex Shtifman, Jose-Raphale Lopez, David Weinberg, Henry Querfurth (2005), "Overexpression of human APP in skeletal muscle of transgenic results in ion dyshomeostasis and weakness. Annual Research day for Caritas St. Elizabeth's Medical Center (Tufts university school of medicine), March, oral presentation (recipient for second prize for biomedical research), Boston, (Oral presentation), USA.

SELECTED THESES

SN	NAME	TITLE	COURSE	SPECIALIZATION	YEAR
1	Indu Bisht	An integrated approach to unravel potential crosstalk between Alzheimer's disease and Parkinson's disease	M.Tech	Neuroscience	September 2019
2	Ambika Dubey	Omics' Data Analysis of Repurposed Drugs Entinostat and Tropicamide Against Dopamine Metabolism	M.Tech	Neuroscience	September 2019
3	Ankita Arora	Screening and designing of KIFA5A like motor proteins in Amyotrophic Lateral Sclerosis (ALS)	M.Tech	Neuroscience	September 2019
4	Parul Sharma	Screening of Vitamins based on Structure-Activity Relationship as a potential therapeutic molecule against oxidative stress-mediated neurodegeneration	M.Tech	Neuroscience	September 2019
5	Rohan Gupta	<i>In silico</i> Design of Novel Isoform Selective Histone Deacetylase Inhibitor as a therapeutic approach for Alzheimer's disease Using Multiple Sequence Alignment, Machine Learning, Molecular Docking, ADME, And Mutation Analysis	M.Tech	Neuroscience	August 2018
6	Rohan Ajit Singh	3D QSAR studies, virtual screening and machine learning of novel Protein Kinase C derivatives to obtain new inhibitors for Cancer	M.Tech	Cancer Biologyt	August 2018
7	Deepak Kumar	Combined sequence and sequence-structure based analysis of SNPs associated with genes involved in Parkinson's disease	M.Tech.	Neuroscience	August 2018
8	Harleen	An <i>in-silico</i> approach to investigate the therapeutic potential of Ayurvedic drugs against Allopathic in treatment of Alzheimer's	M.Tech.	Neuroscience	August 2017

		disease (Type-3 Diabetes)			
9	Swati Sharan	<i>In silico</i> study to repurpose DJ1 binding compounds for Alzheimer's disease and Parkinson's related dementia	M.Tech.	Neuroscience	August 2017
10	Alka Raina	Characterization of putative drugs for targeting Alzheimer's disease and Type II Diabetes Mellitus	M.Tech.	Neuroscience	August 2017
11	Minal Singh	<i>In silico</i> analyses of holo A β PP Promoter and transactivation modules	M.Tech.	Neuroscience	August 2017
12	Shailesh Kumar Singh	Application of Biomolecules in Huntington's Disease: An <i>in silico</i> analysis of Huntingtin HTT gene with drugs	M.Tech.	Neuroscience	August 2016
13	Abhishek Srivastava	Therapeutics application of anti-cancerous drug in neurodegenerative disorders	M.Tech.	Neuroscience	August 2016
14	Deepak Singh	<i>In silico</i> docking studies of Cu-Zn SOD and plant derivatives to identify potential drugs for the treatment of Amyotrophic Lateral Sclerosis (ALS)	M.Tech.	Neuroscience	August 2016
15	Ankita Yadav	<i>In silico</i> analysis of biomolecules for LRRK2 gene and its clinical relevance	M.Tech.	Neuroscience	August 2016
16	Nikhil	<i>In silico</i> analysis of potential tau protein kinase inhibitors using docking studies for the treatment of Alzheimer's Disease	M.Tech.	Neuroscience	August 2016
17	Sidharth Sharma	Enhancing production of organic acids by immobilized thermophilic nitrilase of <i>Pseudomonas sp</i> KNB2	M.Tech.	Enzymology	August 2016
18	Shashank Kumar Singh	Immobilization and reaction condition optimization of Amidase of <i>Bacillus Sp.</i> MNB-1	M.Tech.	Enzymology	August 2016
19	Deepak Rathore	Preparation and characterization of alginate, alginate-chitosan, alginate-gelatin scaffold for tissue engineering	M.Tech.	Nanotechnology	2016 October

20	Satyaprakash	Protein profiling and <i>in silico</i> Analysis of PPI network in Meningitis CSF samples	M.Tech	Neuroscience	2015 July
21	Noopur Kejariwal	Characterization of putative drugs for the clinical application in Alzheimer's disease	M.Tech	Neuroscience	2015 August
22	Ankit Tripathi	Clinical case studies and propensity of Diabetes in Delhi population	M.Tech	Neuroscience	2015 August
23	Sagar Verma	A pilot study to examine the role of drug metabolizing enzymes in Parkinson's disease	M.Tech	Neuroscience	2015 August
24	Dhiren Pattanayak	Computational analysis of key transcription factor binding modules in Alzheimer's disease and its associated genes	M.Tech	Neuroscience	2015 July
25	Sakshi Sharma	Genetic association of ABC transporter gene in leukemia	M.Tech	Cancer Biology	2015 August
26	Dhiraj	Neurological Channelopathic Knowledge Base (NCKB): An application software for Ion channels and Neurological channelopathies	M.Tech	Neuroscience	2014 July
27	Binod Koirala	Study of apoptotic pathway in Diabetes	M.Tech	Diabetes	2014 July
28	Lakshmi	Role of ubiquitin E3 ligase, angiogenic and apoptotic signaling in Diabetes	M.Tech	Diabetes	2013 July
29	Ravi Tomar	Study of Small Ubiquitin like Modifiers and Chaperonic Signaling in Non-Insulin Dependent Diabetes Mellitus	M.Tech	Diabetes	2014 July
30	Abhidha Kohli	The effect of hypoxia on mice skeletal muscle and cardiovascular system	M.Tech	Neuroscience	2011 June
31	Mandar Bhattacharya	The effect of high altitude hypoxia on mice nervous and renal system	M.Tech	Neuroscience	2011 June
32	Ganesh Mansing Lad	Generation of murine model of <i>in vivo</i> study of Parkinson's disease using rotenone	M.Sc	Neuroscience	2010 May
33	Kunal Kumar Singh	Toxic effect of rotenone on different organs in Parkinson's disease like	M.Sc	Neuroscience	2012 June

		model			
34	Pallavi Asthana	Involvement of angiogenic marker and chaperones in solid tumour	M.Sc	Cancer Biology	2012 May
35	Anup Kumar	Screening and characterization of anticancer biomolecules	M.Sc	Cancer Biology	2011 June
36	Mayank Pathak	Screening of edible plant materials for antimicrobial activity	M.Tech	Internal guide	2011 May
37	Ambika S. Kurbet	Use of in vitro colony forming assay and cytogenetics as a plausible predictive parameter in prognosis of chronic myeloid leukemia	M.Tech	Internal guide	2011 May
38	Jay Prakash Kumar	Cloning, expression, purification and crystallization of thioredoxin (Trx) and thioredoxin reductase (pTrxR and TrxR) from hydra magnipapillata	M.Sc	Internal guide	2012 June
39	Vikas Malik	Model organism to demonstrate cellular senescence in organismal aging	M.Sc	Internal guide	2012 June
40	Shalini Pal	To study the association between iron deficiency anaemia and stroke and its impact on stroke severity and outcome	M.Sc	Internal guide	2012 June
41	R. Karunya	Development of a potency assay for therapeutic monoclonal antibody anti CD6	M.Sc	Internal guide	2012 June
42	Gunjan Singh	Role of vitamin D in the regulation of Cathelicidin (hCAP-18/LL-37), antimicrobial peptide in visceral leishmaniasis patients	M.Sc	Internal guide	2011 June
43	Kumari Neha	Changes in the level of replication proteins due to depletion of protein associated with ubiquitin ligase in HELA cell	M.Sc	Internal guide	2011 June

44	Kumari Soni	Detection of mutation in alpha globin gene in thalassemia patients	M.Sc	Internal guide	2011 June
45	B. Komathi	Molecular characterization of <i>Candida sp.</i>	M.Sc		2011 June
46	Arpita Maheshwari	To study the role of carbohydrate domains in host-parasite interaction by using synthetic glycoconjugates	M.Sc	Internal guide	2011 June
47	Archan Chakraborty	A study of neurodegeneration involved in SCA1 using <i>Drosophila melanogaster</i> as a model system	M.Tech	Internal guide	2011 June
48	Ruchi Bansal	Post-transcriptional gene silencing by siRNA in cancerous cell-line	M.Tech	Internal guide	2011 May
49	Manisha	Genetic diversity studies in <i>Brassica carinata</i> using microsatellite markers	M.Tech	Internal guide	2011 May
50	Girisaran Gangatharan	Cellular and molecular mechanisms of Zebrafish fin regeneration	M.Tech	Internal guide	2011 November
51	Gunjan Singh	<i>In silico</i> analysis of stress gene in breast cancer	M.Tech	Internal guide Cancer Biology	2016 August
52-53	Priya Chatterjee and Apporva Baluapuri	Pathophysiological study of cerebrospinal fluid (CSF) in Parkinson's disease	B.Tech	Neuroscience	2010 May
54-56	Mayank Malhotra Bhumesh Tanwar and Vishal Singhal	System biology of neuroblastoma: <i>in silico</i> drug targets identification, structure prediction and development of online neuroblastoma database of Protein-Protein interaction	B.Tech	Neuroscience	2013 May
57-58	Jashpreet Singh and Jayshree	ECG signal analysis, Denoising and characterization of heart disease	B.Tech	Cardiology	2014, May
59-61	Ashutosh Kumar, Bhavesh Gulia, Gaurav	Intellectual property rights, Law, case studies and analysis with Indian Laws	B.Tech	IPR and patenting	2015, May
62	Himanshi Allahabadi	Neurogene: A platform to analyze the genetics of	B.Tech	Neuroscience	2015, May

		neurodegeneration			
63	Rajat Gupta	Calpain Dysregulation in Neurodegenerative Disorders	B.Tech	Neuroscience	2016, May
64	Piyush Sawhney	In silico docking of ROCK2 protein with Rho kinase inhibitor SR3677 in Alzheimer's disease	B.Tech	Neuroscience	2016, May
65	Parul Yadav	Therapeutic relevance of LARK2 inhibitors in pathophysiology of Parkinson's disease: an in silico study	B.Tech	Neuroscience	2016, May
66	Shashank Gunjan	Metal ion toxicity in Alzheimer's disease	B.Tech	Neuroscience	2016, May
67	Pooja Pabari	A DYRK1A protein based in silico association study between Down's Syndrome and Alzheimer's disease	B.Tech	Neuroscience	2016, May
68	Vanshika Bawa	Predictive modeling for diagnosis of Dementia in mild-and moderate TBI patients	B.Tech	Neuroscience	2018, May
69	Ananya Pathak	Translation of spiking Neural Network in Python	B.Tech	Neuroscience	2018, May
70	Garima Gulati	Unique Protein Targets of Multi Drug Therapy in Diabetes Type II and III	B.Tech	Metabolic syndrome Neuroscience	2019, June
71	Raghav Bhardwaj	Implementation of Python-based Artificial Neural Network System & its Application in Malaria Detection	B.Tech	Neuroscience	2019, June
72	Nikita	"Effects of Sitagliptin on Various Receptors in Diabetes"	B.Tech	Diabetes	2019, June
73	Yuvraj Singh	Effects of Sulfonylurea and Plant Products on Diabetes	B.Tech	Diabetes	2019, June
74	Rahul Yadav	Effect of flax seed in male breast cancer	B.Tech	Cancer	2019, June
75	Urvi	Detecting early Alzheimer's disease using R programming and computational tools	B.Tech	Neuroscience	2018, May
76	Priya	Molecular pathophysiology of dystrophin deficient muscle in duchenne muscular dystrophy	B.Tech	Internal guide Neuroscience	2010 June

PROFESSIONAL MEMBERSHIPS

1. Society for Neuroscience, Washington, USA
2. Alzheimer forum, USA
3. Indian Academic of Neurosciences, (India)-LK92 Life member
4. Society for Biotechnologist (India)-L494, Life member
5. Society for Neurochemistry (India); LM-I 265, Life member
6. Asia Pacific Society for Neuroscience (APSN), 10-4-043-022.
7. International Society for Neurochemistry (ISN)
8. American Society of Neurochemistry (ASN)

SUBJECTS TAUGHT AT DOCTORAL, MASTERS AND BACHELOR LEVELS

SUBJECT TAKEN	CLASS	STUDENT STRENGTH
Application of genomics in Medicine Theory and Lab	Master of Technology (M.Tech.) Bioinformatics 2014-current@DTU	43
Advanced Genetic Engineering	Master of Technology (M.Tech.) Bioinformatics 2014-Current @DTU	45
Human Anatomy and Physiology Theory and Lab	Master of Technology (M.Tech.) Bio- medical Engineering, 2013-current@DTU	43
Advanced Proteomics	Master of Technology (M.Tech.) Bioinformatics 2013-current @DTU	45
Protein Engineering	Master of Technology (M.Tech.) Industrial Biotechnology 2013-current @DTU	10
Genomics in Medicine	Master of Technology (M.Tech.) Bio- medical Engineering, 2013@DTU	43
Genomics and Proteomics (Theory and Lab)	Bachelor of Technology (B.Tech.) Biotech. 2013 @DTU	24
Genetic Engineering (Theory and Lab)	Bachelor of Technology (B.Tech.) Biotech.2012 @DTU	20
High throughput and structural Biology Lab	Master of Technology (M.Tech.) Biotech. 2012@DTU	23
Signal Transduction	Master of Science (M.Sc.) Biotech. 2012	65
Genetic Engineering	Master of Science (M.Sc.) Biotech. 2011	185
Medical Biotechnology	Master of Science (M.Sc.) Biotech 2011	190
Genetic Engineering	Master of Technology (M.Tech.) Biotech. 2010	37
Animal Biotechnology	Master of Technology (M.Tech.) Biotech. 2010	52
Medical Biotechnology	Master of Science (M.Sc.) BMG 2009	83
Medical Biotechnology	Master of Science (M.Sc.) Biotech.2010	70
Molecular Medicine	Bachelor of Technology (B.Tech.) Biotech.2009	134

Molecular Medicine	Bachelor of Technology (B.Tech.) Biotech.2010	200
Genomics and Proteomics	Bachelor of Technology (B.Tech.) Biotech.2009	120
Molecular Biology	Bachelor of Technology (B.Tech.) Biotech.2010	40
Recombinant DNA Technology	Bachelor of Technology (B.Tech.) Biotech.2009	40
Cell Biology	Bachelor of Technology (B.Tech.) Biotech.2009	14
Medical Biotechnology	Bachelor of Technology (B.Tech.) Biotech.2009	15