

	Name*		Parvesh Bubber
	Designation*		Professor
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	Web page		
EDUCATIONAL QUALIFICATIONS			
Degree	Year	Institute/University	
Ph.D.	1997	Dept of Biochemistry, Panjab University, Chandigarh, India	
Masters	1994	Dept of Biochemistry, Panjab University, Chandigarh, India	
Bachelors	1992	Dept of Biochemistry, Panjab University, Chandigarh, India	
CAREER PROFILE			
<p>Professor (June 2017) Biochemistry Discipline School of Sciences IGNOU New Delhi, India</p> <p>Associate Professor (June 2014--June 2017) Biochemistry Discipline School of Sciences IGNOU New Delhi, India</p> <p>Reader (June 2011--June 2014) Biochemistry Discipline School of Sciences IGNOU New Delhi, India</p> <p>Assistant Professor (April-2010- May 2011) School of Biotechnology Gautam Buddha University Gautam Buddha Nagar Greater Noida, UP, India</p> <p>Reader (July 2007- April 2010) Department of Bioscience and Biotechnology, Banasthali Vidyapeeth, Banasthali, Rajasthan, India</p> <p>Sr. Lecturer (May 2007- July 2007) Department of Bioscience and Biotechnology, BITS, Pilani Rajasthan, India</p>			

Research Scientist (March 2006- Feb 2007)

Lupin Research Park
Village Nande, Taluka Mulshi
Pune, Maharastra, India

Post Doc Fellow (Jan 2001- 2005)

W. Institute of Cornell University Medical College
White Plains, New York, USA

Senior Demonstrator (August 1998- Jan 2001)

Post Graduate Institute of Medical Education and Research (PGIMER)
Chandigarh, India

Research Associate (Jan1998-August 1998)

Institute of Microbial Technology (IMTECH)
Sector-39 A, Chandigarh, India

AREA OF INTEREST/SPECIALIZATION*

ENZYMOLGY AND MEDICAL BIOCHEMISTRY
NEURODEGENERATION AND DIABETES

ROLE AND RESPONSIBILITIES AT IGNOU

Discipline coordinator for the year 2011-2012, 2017-2018

Ph.D Coordinator (2015-2018)

Member of BDP Committee (2011-2012)

Member of School Board (2011-2012)

RESEARCH GUIDANCE

Supervision of	Year of completion	Students Name
Doctoral Students	2022	Shipra Gupta
	2021	Jyoti Rastogi
	2019	Charu Gupta
	2018	Abhishek Jha
	2017	Anisha and Naveen

NUMBER OF PUBLICATIONS (LIST FOR EACH ITEM COULD BE GIVEN UNDER SEPARATE FILES FOR LINKING)

A. Papers in Refereed/Peer reviewed Journals :

1. Anisha Chauhan and **Parvesh Bubber**. Abnormalities of metabolic enzymes in the tricarboxylic acid (TCA) cycle in Alzheimer's disease. Current Trends in Life Sciences; 2021;1: 35-42.
2. Shipra Gupta, Mariyam Gauhar **Parvesh Bubber**, Pratima Ray. Phylogenetic analysis of Rotavirus VP7 and VP4 Genes of the most predominant human group rota virus human group A rotavirus G12 identified in children with acute gastroenteritis in Himachal Pradesh, India during 2013-2016. J Med Virol; 2021; 93 (11): 6200-6209. ISSN No 1096-9071.
3. C Gupta, **P Bubber**, M Fahim, B Saidullah and S Omanwar. Adiponectin in onset and progression of T2DM with cardiac dysfunction in rats. Human and Experimental Toxicology; 2020, Vol. 39(11) 1463–1474. ISSN No 0960-3271.
4. Surender Singh, Shalini Kalra, **Parvesh Bubber**, Tirtha K. Datta, Ashok K. Mohanty & Jai K. Kaushik. Functional analysis of recombinant buffalo lactoferrin and monoferric lobes and their cytotoxic effect on buffalo mammary epithelial cells. Biometals (2019) DOI 10.1007/s10534-019-00209-0. ISSN 0966-0844
5. Shipra Gupta, Sanjeev Chaudhary, **Parvesh Bubber**, Pratima Ray. Epidemiology and genetic diversity of group A rotavirus in acute diarrhea patients in pre-vaccination era in Himachal Pradesh, India. Vaccines, (2019) 37 (36);5350-5356 ISSN no0276-393X.

6. Abhishek Jha, Bano Saidullah and **Parvesh Bubber**. A Study on Prooxidative and Neurotoxic Effects of Mercury Chloride in Rats. *EC Pharmacology and Toxicology* (2019) 6 (12) 112-124, ISSN No: 2893-6490.
7. Jyoti Rastogi, **P Bubber**, RK Singh and RB Singh. Determination of minimal inhibitory concentration of kanamycin as selective agents and marker genes for use in Agrobacterium mediated transformation in sugarcane. *Journal of Pharmacognosy and Phytochemistry* 2018; 7(6): 1861-1864. P-ISSN: 2349-8234.
8. Charu Gupta, Swati Omanwar, **Parvesh Bubber** and Bano Saidullah. ECG Alterations precedes Cardiac Hypertrophy in Rat Model of Diabetes. *Open Access Journal of Toxicology* (2018) 2 (5) DOI: 10.19080/OAJT.2018.02.555598. ISSN 2474-7599.
9. Chauhan A, Srivastva, N and **Bubber, P**. Thiamine deficiency induced dietary disparity promotes oxidative stress and neurodegeneration. *Ind J Clin Biochem.* (2017). ISSN 09701915. 33 (4)422-427. Impact factor-0.97.
10. Chauhan A, Srivastva, N and **Bubber, P**. Effect of thiamine nutritional deficiency on the energy metabolism and neurotransmission in mice brain *The Indian Journal of Nutrition and Dietetics* (2017). 6 (2), 82-87. ISSN-0022-3174.
11. Naveen Kumar Gupta, Nidhi Srivastva, Sanjeev Puri, **Parvesh Bubber**, Veena Puri (2017) Neuroprotective potential of *Azadirachta indica* leaves in diabetic rats. *Asian Journal of Phramceutical and Clinical Research* Vol 10, Issue 4, (2017). 243-248. Print ISSN- 0974-2441 Online ISSN- 2455-3891. Impact factor-0.48.
12. Naveen Kumar Gupta, Nidhi Srivastva, **Parvesh Bubber**, Owais Mohammad Bhat and Sanjeev Puri (2016). Antioxidant Potential of *Azadirachta indica* Ameliorates Cardioprotection following Diabetic Mellitus Induced Microangiopathy". *Pharmacognosy*, 371-378, 46 (12), impact factor 1.2) **ISSN: 0975-3575. Impact factor-1.2**
13. Gupta N K, Srivastva N, Puri S, **Bubber P**, Garg S and Mohammad, O. Protective and curative effect of *Azadirachta Indica* Leaf Extract in Streptozotocin Induced Diabetic Rat Liver. *International journal of pharmacognosy and Phytochemical Research* 2016; 8(7); 1142-1148 ISSN 09754873.
14. J. Rastogi, R.K. Singh **P. Bubber** and B.L. Sharma (2016). Effect of BAP on multiplication rate of sugarcane using mature axillary bud. *Procc. STAI*, 74: 213-221.
15. J Rastogi, Siddhant, **P Bubber** and Brij Lal Sharma. Somoclonal variation: a new dimension for sugarcane improvement. *GERF Bulletin of Biosciences*, 2015, 6(1):5-10. ISSN: 2229 6433.
16. J Rastogi, N N Tiwari, R N Pandey **P Bubber** and R K Singh (2014). Refinement of Cost Reduction Technology in Sugarcane Micro propagation. *Vegetos-* 2014, 27:3 Online ISSN: 2229-4473; Print ISSN: 0970-4078. ISSN: 1536-383X Online ISSN: 1536-4046.
17. Arora Shweta, Kaur Harmanmeet, Kumar Rajendra, , Kaur Rupinder, Rana Deepa, Charan S. Raya, Kaur Inderpreet, Arora K. Sunil, **Bubber Parvesh**, Bharadwaj Lalit M, *In Vitro* Cytotoxicity of Multiwalled and Singlewalled Carbon Nanotubes on Human Cell Lines. *J of Fullerenes, Nanotubes and Carbon Nanostructures*, DOI: 10.1080/1536383X.2013.812638, 9th Jan 2014. Print ISSN: 1536-383X Online ISSN: 1536-4046.
18. J. Rastogi, N.N. Tiwari, S. Gupta, A. Kumar, **P. Bubber** and R.K. Singh. Eco-friendly dose of antibiotics for elimination of *Agrobacterium tumefaciens*. *Asian journal of microbiology, biotechnology and environmental science (AJMBES)* Vol. 16, No. (1) : 2014 : 85-87. Print 09723005.
19. Sharma A, Bisht R, **Bubber P**. Thiamine deficiency induces oxidative stress in brain mitochondria of *Mus musculus*. *J Physiol Biochem.* 2013; 69: 539-546. ISSN:1138-7548. Impact factor-1.711
20. **Bubber P**, Sharma A, Chauhan A, and Bansal DD. Effect of growth hormone on plasminogen activator and inhibitor activity in rat. *Ind J Clin Biochem.* 2013; 28 (2) 193-196. ISSN 09701915. Impact factor-0.97
21. **Bubber P**, Chauhan A, Sharma A, Bubber N and Bansal DD. Effect of thyroxine on fibrinolytic system in rat, *Indian J Physiol Pharmacol.* 2012; 56(3): 267-272.
22. Arora Shweta, Renu Saharan, Harsirat Kaur, Inderpreet Kaur, **Parvesh Bubber** and Lalit. M. Bhardwaj.

Attach-ment of Docetaxel to Multiwalled Carbon Nanotubes for Drug Delivery Applications 2012. *Advanced Science Letters*, 2012; 5, 1–6. ISSN: 1936-6612 (Print); EISSN: 1936-7317. Impact factor-1.2.

23. **Bubber P**, Tang J, Haroutunian V, Xu H, Davis KL, Blass JP, Gibson GE. TCA cycle in schizophrenia. *European Journal of Neuropsychopharmacology*. 2011 Mar; 21(3):254-60. ISSN0924-977X. Impact Factor-4.4

24. **Bubber P**, Bubber N and Bansal DD. Effect of thyroxine on plasminogen activator and inhibitor activity in rat. *Indian J Exp Biol*. 2009, 47, 147-150.

25. Zhang L, Cooper AJ, Krasnikov BF, Xu H, **Bubber P**, Pinto JT, Gibson GE, Hanigan MH. Cisplatin-induced toxicity is associated with platinum deposition in mouse kidney mitochondria in vivo and with selective inactivation of the alpha-ketoglutarate dehydrogenase complex in LLC-PK1 cells. *Biochemistry*. 2006 Jul 25; 45(29): 8959-71.

26. Kim SY, Marekov L, **Bubber P**, Browne SE, Stavrovskaya I, Lee J, Steinert PM, Blass JP, Beal MF, Gibson GE, Cooper AJ. Mitochondrial aconitase is a transglutaminase 2 substrate: transglutamination is a probable mechanism contributing to high-molecular-weight aggregates of aconitase and loss of aconitase activity in Huntington disease brain. *Neurochem Res*. 2005 Oct; 30(10): 1245-55.

27. **Bubber P**, Haroutunian V, Fisch G, Blass JP, Gibson GE. Mitochondrial abnormalities in Alzheimer brain: mechanistic implications. *Ann Neurol*. 2005 May; 57(5): 695-703.

28. **Bubber P**, Tang J, Haroutunian V, Xu H, Davis KL, Blass JP, Gibson GE. Mitochondrial enzymes in schizophrenia. *J Mol Neurosci*. 2004; 24(2): 315-21.

29. Gibson, G. E., **Bubber, P.**, Haroutunian, V., Davis, K. L. and Blass, J. P. Abnormalities in the tricarboxylic acid (TCA) cycle in schizophrenic brain. *Journal of Neurochemistry*. 90 Supplement 1:37, August 2004.

30. **Bubber P**, Ke ZJ, Gibson GE. Tricarboxylic acid cycle enzymes following thiamine deficiency. *Neurochem Int*. 2004 Dec; 45(7): 1021-8.

31. Klivenyi P, Starkov AA, Calingasan NY, Gardian G, Browne SE, Yang L, **Bubber P**, Gibson GE, Patel MS, Beal MF. Mice deficient in dihydrolipoamide dehydrogenase show increased vulnerability to MPTP, malonate and 3 nitropropionic acid neurotoxicity. *J Neurochem*. 2004 Mar; 88(6): 1352-60.

32. **Bubber P**, Singh KP, Arora S, Bansal DD. Effect of growth hormone on fibrinolytic system in rat. *Indian J Exp Biol*. 1998 May; 36(5): 514-6.

33. Surender Singh, Ramanjeet Kaur, S.Shankar Soni and **Parvesh Bubber**. Microbial activities of Rhizosphere Bacteria. *Rev Proc on Seminar on Internet: Applications in Research* (2011);1; 29-32. ISSN No: 92004519.

B. **Books/Monographs (Authored/Edited)/ Book Chapter/ Lecture Notes :**

1. **Bubber, P.** and Bansal D.D. (1997) *Molecular Vaccines*. Invention Intelligence National Research Development Corporation, New Delhi (General Article).

2. **Bubber, P.** (1996) *Testing Cancer causing Chemicals*. Invention Intelligence. National Research Development Corporation, New Delhi (General Article).

3. **Bubber, P.** and Bansal D.D. (1995) *Balancing Enzymes to regulate heart disorders*. Invention Intelligence. National Research Development Corporation, New Delhi (General article).

4. **Bubber P.** (1995) *New hope for blind diabetics*. Indian Express. Chandigarh (General article).

5. **Bubber P.** (2007) *Downside Road-Indian Pharma*. Indian Express Pharma, 16th to 30th June, 2007, Mumbai (General Article).

6. A book chapter entitled “*Agrobacterium tumefaciens: A natural engineer for gene transfer*” in plants by Jyoti Rastogi, N.N.Tiwari, R.N.Pandey, **P.Bubber** and R.K.Singh in the forthcoming book entitled “*Microbial Biodiversity: A boon for Agriculture Sustainability to be published by Biotech Books, New Delhi, India.*”

7. Two Videochapters for UGC E-pathshala project on Biotherapy of fungal diseases and Fungal Infections June 2017

C. Papers in Conference Proceedings:

1. Poster presentation on Thiamine Deficiency Induced Energy Metabolism Imbalance promotes oxidative stress in the International Conference on Mitochondria in Health and Diseases from 10-11 February, 2017 of 6th Annual Conference of Society for Mitochondrial Research and Medicine-India at School of Life Sciences, Jawaharlal Nehru University, New Delhi, India. A. Chauhan, Nidhi Srivastva and **Parvesh Bubber**

2. Poster presentation on 5th Biennial Conference on New Developments in Drug Discovery From Natural Products and Traditional Medicines in NIPER from 18th-20th Nov, 2016 : 1. Protective potential of *A. indica* in Diabetic Neuropathy. Naveen Gupta, Sanjeev Puri, Nidhi Srivastva and **Parvesh Bubber**

3. UGC sponsored National Conference in Chemistry on Environment and Harmonious Development on April 7-8th, 2016 at Department of Chemistry, Sham Lal College, University of Delhi in Collaboration with NIFTEM. Thiamine deficiency induced nutritional imbalance promotes oxidative stress. A. Chauhan, Nidhi Srivastva and **Parvesh Bubber**.

4. Poster presentation in 19th Punjab science congress (7-9 Feb. 2016), on the topic Hepatoprotective potential of *Azadirachta indica* in diabetic microangiopathy. Naveen Gupta, Sanjeev Puri, Nidhi Srivastva and **Parvesh Bubber**.

5. Poster presentation in national seminar (**consolation prize**) on current issues in public health (11 march 2015), on the topic *Azadirachta indica* and diabetes. Naveen Gupta, Sanjeev Puri, Nidhi Srivastva and **Parvesh Bubber**.

6. Poster presentation in national seminar (**First prize**) on Sustainable renewable energy generation current scenario (11 march 2015). Naveen Gupta, Sanjeev Puri, Nidhi Srivastva and **Parvesh Bubber**.

7. Poster presentation in national conference prospective trends in plant sciences and biotechnology (21- 23 Feb. 2014), on the topic Anti oxidative and cardioprotective potential of *Azadirachta indica* in diabetes rats. Naveen Gupta, Sanjeev Puri, Nidhi Srivastva and **Parvesh Bubber**.

8. Poster presentation in 8th CHASCON (26-28 Feb. 2014), on the topic *Azadirachta indica* a neuroprotective herb in STZ induced diabetic rats. Naveen Gupta, Sanjeev Puri, Nidhi Srivastva and **Parvesh Bubber**.

9. Gupta, N.K., Puri S, **Bubber P**. Antioxidative and Hypoglycemic potential of *Azadirachta indica* in microangiopathic tissues in Diabetes. 7th Chandigarh Science Congress (CHASCON). March 1-3th, 2013 (Poster Presentation).

10. Anupama Sharma, Renu Bist, **Parvesh Bubber** (2011) Oxidative stress in brain mitochondria of *Mus musculus* following thiamine deficiency, 6th Biyani International Conference -2011 BICON-11 on Innovations in the latest Health care issues, Sept 19-21 (First Prize, Oral Presentation).

11. Surender Singh, Ramanjeet Kaur, Sarina Panghal, Shashi Shanker Soni and **Parvesh Bubber** Microbial Activities of Rhizosphere Bacteria. Reviewed Proceedings of National Seminar on MDU Rohtak, Haryana. (**Full paper Publication**) Applications in Research, 29-32 (2011). ISBN: 978-81-920945-1-9

12. **Bubber P**, Tang J, Haroutunian V, Xu H, Davis KL, Blass JP, Gibson GE. TCA cycle enzymes in AD. Annual Meeting of Society of Neuroscience (Aug 25-27, 2004), New York, NY, USA.

13. Kim, S.-Y., Marekov, L., **Bubber, P.**, Browne, S. E., Stavrovskaya, I., Son, J. H., Beal, M. F., Blass, J. P., Gibson, G. E., Cooper, A. J. L. Mitochondrial Aconitase as a Transglutaminase Target: Implication for Mitochondrial Dysfunction in Huntington Brain. Annual Meeting of Society of Neuroscience (Nov 8-12, 2003), New Orleans, USA

14. **Bubber.P**, Zun-Ji Ke., G. E. Gibson. Thiamine deficiency induces selective alterations in citric acid cycle enzymes. Annual Meeting of Society of Neuroscience (Nov 8-12, 2003), New Orleans, USA.

15. **Bubber P**, Tang J, Haroutunian V, Xu H, Blass JP, Gibson GE. Genes of energy metabolism and schizophrenia. (Poster Presentation) XIth World Congress of Psychiatric Genetics (4-8 October 2003), Québec City, Canada.
16. **Bubber, P.** and Bansal, D.D. (1996) Higher plasminogen activator activity in induced hyperglycemic condition. 65th Annual Meeting of Society of Biological Chemists. India IISc. Bangalore, India (Poster presentation).
17. **Bubber P.** (1995) Plasminogen activation. National Symposium on Biosciences. M.D. Univ. Rohtak, India (Oral paper presen).
18. **Bubber, P.** and Bansal D.D. (1995) Interrelationship of tPA and PAI with blood glucose, lipids and lipoproteins fractions in diabetic patients. National Symposium on Biosciences, M.D. Univ. Rohtak, India (Oral paper presentation).
19. **Bubber, P.** and Dani H.M. (1995) Biochemical studies on carcinogenicity of soaps and shampoos. Seminar on Chemistry Industry relationship. K.U. Kurukshetra. India (Poster presentation).

A. Conferences/Seminars/Workshops participated/Presented:

1. Radiation Safety Course conducted by BARC, Trombay, Mumbai from June 21-29th, 2006 (Workshop).
2. Annual Neuroscience Meeting in New York, NY, USA from August 27-29, 2004 (Conference).
3. 65th Platinum Jubilee Annual meeting of Society of Biological Chemists organised by IISc., Bangalore in Nov., 1996 (Conference).
4. National Symposium on Recent Advances in Biosciences organised by M.D.University, Rohtak in Nov, 1995 (Conference).
5. 7th National Electron Microscopy Workshop conducted by Panjab University in Jan, 1995 (Workshop).
6. National Workshop on Biological Databases and Data Mining at Dept. of Biosciences & Biotechnology, Banasthali University, Banasthali, 22nd- 24th December 2007.
7. National Seminar on Medical Biotechnology-Vision 2020 by MDU Rohtak, India from 16th -18th April 2010.
8. National Symposium on Natural Products in Health and Disease: Biochemical and Molecular mechanisms by Punjab University, Chandigarh, 5-6 March 2010.
9. National Seminar on Open and Distance Learning (ODL) and Curriculum Design & Development in ODL held on 29th -31st October, 2013, IGNOU, Maidan Garhi, New Delhi.
10. National Symposium on Neuroscience, November 13-14th, 2015, Department of Zoology Ravenshaw University, Cuttack-753003. Thiamine deficiency impairs oxidative metabolism in brain. (Oral presentation).
11. International Conference on Mitochondria in Health and Diseases from 10-11 February, 2017 of 6th Annual Conference of Society for Mitochondrial Research and Medicine-India at School of Life Sciences, Jawaharlal Nehru University, New Delhi, India.

RESEARCH PROJECTS

Sponsoring Agency	Period	Amount of grant (in Lakhs)	Title of Project	Co-investigator(s) (if any)
UGC	2009	9.8 Lakh	Mitochondrial abnormalities in thiamine deficiency with clinical reference to	

			neurodegenerative diseases	
DST	2010	13 Lakh	Role of TCA cycle in thiamine deficiency	
HONOURS/AWARDS/DISTINCTIONS				
<p>Awarded research fellowship and lecturership by University Grants Commission, Govt. of India in life sciences section in Dec 1992.</p> <p>Invited as external examiner for PG exam in HPU, Shimla, Kurukshetra University, Haryana and Pauri-Garhwal Engineering college.</p> <p>Observer for UGC-NET exam and NEET exam conducted by CBSE as well as TEE of IGNOU</p>				
PROFESSIONAL ASSOCIATIONS				
<p>Life Member of Research Society of Diabetes in India</p> <p>Annual member of Society of Neurosciences, USA</p> <p>Reviewer for National and International Journals such as Indian Journal of Physiology, AIIMs, India, Journal of Traditional Medicine etc.</p>				