Curriculum Vitae

Dr. Ashok Dattatray Chougale

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'Muktai' At/p- Murgud,
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Research Experience:

DBT-Research Associate-ship in National Chemical Laboratory, Pune on a project *"Identification and characterization of AGE-modified protein which elicit autoimmune response in STZ diabetic mice."* with Dr. M. J. Kulkarni

Identified the glycated proteins as autoantigen from rat kidney. Characterized post-translational modification in the glycated proteins from diabetic rat kidney.

Ph. D. in Biochemistry on the topic entitled*, "Study of Hypoglycemic Activity and Insulin Like Action of Plant Components in Treatment of Diabetes Mellitus.*" at Shivaji University, Kolhapur Under guidance of Dr. (Mrs.) A. U. Arvindekar,

Plant with mimetic action was discovered by *in vivo* and *in vitro* experiments. The active plant component was purified and putative structure proposed.

M. Sc. Dissertation on the topic entitled, *"Variation of superoxide dismutase levels in aging"* carried out under Guidance of Dr. S. D. Sontakke Shivaji University, Kolhapur, India.

Different levels of SOD were estimated in different tissues in different age group of animals.

Summer training on the project entitled, "Effect of Radioprotection on Yeasts" Under the Guidance of Dr. K. Pashupatthy Scientist 'G', Radiation Biology Division, Bhabha Atomic Research Center, Mumbai, India.

The compounds like Melatonin and Trigonellin were tested for their anti-radiation activity on yeast cells.

Educational Qualifications:-

Exam Passed	Board/ University	Subject offered	Year of passing	% of marks
Ph.D.	Shivaji University Kolhapur	Biochemistry	April 2008	----
M. Sc.	Shivaji University Kolhapur	Biochemistry	2004	59.50
B.Sc.	Shivaji University Kolhapur	Chemistry	2001	68.90

Employment Details:

- Assistant Professor at The New college Kolhapur India (9 January to present)
- **Research Associate** at National Chemical Laboratories, Pune India. (July 1, 2009 to June 2012)
- **Lecturer** at Department of Biochemistry, NAC&S college Ahmednagar, Pune University, India. (Jan 2008 to April 2009)
- **Teaching assistance** at Department of Biochemistry Shivaji University Kolhapur, India. (June 2005 to June 2008)

Professional training:-

1. **National Chemical Laboratory (Pune) -** Research Associate
2. **Department of Biochemistry** - M.Sc. project and Ph.D. training
3. **National Centre for Cell Science (Pune)** - Cell culture and beta cell isolation studies
4. **Bhabha Atomic Research Centre (Mumbai)** – Radio-protective studies and Plasmid DNA isolation and characterization
5. **Richardson Leprosy Hospital, Miraj** – 10 days training for ELISA, PCR and Southern hybridization studies

Methods Known:-

1. High abundant protein depletion by affinity chromatography approaches,
2. 2D gel electrophoresis,
3. Western blot, ELISA
4. Antibody isolation,
5. Trypsin digestion, Mass Spectrometry analysis by MALDI, LC-MS/MS
6. Protein identification by using tool- Protein Lynx Global Server (PLGS).
7. Histopathology, Enzyme purification and enzyme activity, Animal handling
8. Real time PCR
9. 3T3 adipocyte cell line and L6 rat muscle cell line
10. Plant component isolation and characterization (TLC, HPLC, IR, GC-MS)

Research Publications:-

1. N. M. Jangale , P. P. Devarshi , A. A. Dubal , A. E. Ghule, S. J. Koppikar, S. L. Bodhankar, **A. D. Chougale**, M. J. Kulkarni, A. M. Harsulkar 2013Dietary flaxseed oil and fish oil modulates expression of antioxidant 3 and inflammatory genes with alleviation of protein glycation status 4 and inflammation in liver of streptozotocin–nicotinamide induced diabetic rats. *Food Chemistry* 1;141(1):187-95

2. L. H. Gupta, **A. D. Chougale**, M. Kulkarni S. G. Sabharwal. 2013 Characterization of The A-Amylase Inhibitor From The Seeds Of *MacrotylomaUniflorum* and *VignaUnguiculata. Int J Pharm Bio Sci*; 4(2): (B) 127 – 137

3. M. M. Joglekar, S. N. Panaskar, **A. D. Chougale**, M. J. Kulkarni, A. U. Arvindekar 2013 A novel mechanism for antiglycative action of limonene through stabilization of protein conformation. *Mol Biosyst*. 9(10):2463-72.

4. S. B Bansode, **A. D Chougale**, R. Joshi, A. P Giri, A. Harsulkar, M. J Kulkarni 2013 AGE modification and decreased proteasomal activity contributes protease resistance in diabetic rat kidney *Molecular and Cellular Proteomics*. (In press PMID: 23118466)

5. H.S. Bhonsle, A.M. Korwar, **A. D. Chougale**, S. S.Kote, N. L.Dhande, A.P. Giri, K. Shelgikar, R. Boppana, M. Kulkarni, 2012 Proteomic study reveals down regulation of apolipoprotein A1 in plasma of poorly controlled diabetes. *Molecular Medicine Reports*. (In press PMID: 23232761)

6. A. M. Korwar, H. S. Bhonsle, **A. D. Chougale**, S. S. Kote, K. R. Gawai, V. S. Ghole, C. B. Koppikar, M. J. Kulkarni 2012. Analysis of AGE modified proteins and RAGE expression in invasive ductal carcinoma. *BBRC* 419, 490–494

7. H. S.Bhonsle, A. M. Korwar, S.S. Kote, S. Golegaonkar, **A. D. Chougale**, M. Shaik, N. Dhande, A. Giri,K. Shelgikar, R. Boppana, M. Kulkarni, 2012 Low plasma albumin levels are associated with increased plasma protein glycation and HbA1c in diabetes. *Journal of Proteomics Research* 3;11(2):1391-1396.

8. **A. D. Chougale**, S. P. Bhat, S. V. Bhujbal, R. S. Somani, R. Boppana, A. P. Giri and M. J. Kulkarni 2012 Proteomic Analysis of Glycated Proteins from Streptozotocin-Induced Diabetic Rat Kidney *Molecular biotechnology.* 50, (1):28-38.

9. M. V. Padul, M. T. Patil, **A. D. Chougale**., V. P. Zambare., et al., 2012 In Vitro Screening Of Proteinase Inhibitors (Trypsin, Chymotrypsin and Helicoverpa Gut Proteinase Inhibitors) In Different Plant Tissue Extracts *Trends in Biotechnology research* 1, No. 1.

10. M. V. Padul, **A. D. Chougale**, L. B. Dama, et al., 2012 Alpha-Amylase from Sugarcane Woolly Aphid (*CeratovacunaLanigeraZehntner*) *Trends in Biotechnology research* 1, No. 1.

11. **A.D. Chougale**, P M. Bhosale, U.U. Jadhav, M V Padul 2011 Antibacterial and antioxidant activity of plant latex. *Journal of Pharmacy Research*.4, (2), 406-407.

12. U Jadhav, S Kadu, N. Thokal, M. Padul, V. Dawkar, **A. Chougale**, A. Salve, M. Patil 2011. Degradation of tannic acid by cold adapted Klebsiellasp NACASA1 and phytotoxicityassessment of tannic acid and its degradation products. *Environmental Science and Pollution Research*. 18:1129–1138.

13. **A.D. Chougale**, V. A. Ghadyale, S. N. Panaskar and A. U. Arvindekar. 2009. Glucosidase inhibition by various extracts of stem of *Tinosporacordifolia*. *Journal of Enzyme Inhibition and Medicinal Chemistry*24, (4), 998-1001

14. **A. D. Chougale**, M. V. Padul, MdSaifulArfeen, S. L. Kakad 2009. Antibacterial Activity Directed Fractionation of*WoodfordiafruticosaKurz.* Leaves. *Journal of Medicinal Plants*. 8, 31. 75- 81

15. **A. D. Chougale**, MdSaifulArfeen, M. V. Padul 2009. I*n Vitro* Screening for Antibacterial Activity of Some Indian Plants. *Journal of phytological research*. 22, (2), 251-254.

16. **A.D. Chougale**, S. N. Panaskar, P. M. Gurao, A. U. Arvindekar. 2007 Optimization of Alloxan Dose is Essential to Induce Stable Diabetes for Prolonged Period. *Asian Journal of Biochemistry.* 2, (6), 402-408.

Book Chapter

V. V. Dawkar, U. U. Jadhav, **A. D. Chougale**, S. P. Govindwar (2011) Lignin: Properties and Applications in Biotechnology and Bioenergy. Biotechnology in Agriculture, Industry and Medicine. (Ryan J. Paterson Ed.). Nova Science Publishers.

Conferences:-

1. International Symposium on: Mass Spectrometry in Life Sciences at Bangalore. Date: September 27-29, 2009. Place:National Centre for Biological Sciences, TIFR, Bangalore.
2. 1st international conference organized by International Society of Ayurvedic Physicians and Teachers and Maharashtra University of Health Science on "Role of Ayurveda in treatment of Diabetes mellitus" at Nashik on Jan 13 –14th, 2006

3. UGC Sponsored National seminar on "Changing Biodiversity scenario in India: Initiatives for creation, sustainable utilization and retention of wealth" 14th &15th July 2008.

Workshops attended / Poster presentation:

1. Workshop on 'Basic techniques in animal cell culture' jointly organized by National Center for Cell Science, Pune and Department of Biochemistry, Shivaji University, Kolhapur, India.
2. Jadhav R.A., Padul M.V., **Chougale A.D**. and Tak R.D. *Syzygiumaromaticum*: A good source of antimicrobial compounds. UGC Sponsored National seminar on "Changing Biodiversity scenario in India:Initiatives for creation, sustainable utilization and retention of wealth" 14th &15th July 2008.
3. Jadhav R.A., **Chougale A.D**. and Padul M.V. Assessment of antibiotic resistance among the clinical isolates of selected pathogenic bacteria. UGC Sponsored National seminar on "Changing Biodiversity scenario in India: Initiatives for creation, sustainable utilization and retention of wealth" 14th &15th July 2008.
4. **Chougale A. D.** and Padul M.V. Antimicrobial activity of various extracts of *Tinospora cordifolia.* UGC Sponsored National seminar on "Changing Biodiversity scenario in India: Initiatives for creation, sustainable utilization and retention of wealth" 14th &15th July 2008
5. ***'Certificate of Excellence'*** for poster presentation in Shivaji University Kolhapur.

M. Sc. Dissertations Guided: - Around 20 different M. Sc. Research projects were guided successfully to the students for their degree fulfillment.

Personal Details: -

Date of Birth: - 16/10/1980 Gender: - Male
Nationality: - Indian Marital Status:-Married

References: -

Dr. (Mrs.) A. U. Arvindekar Reader, Department of Biochemistry Shivaji University, Kolhapur 416004 E-mail: auarvindekar@rediffmail.com	Dr. M. J. Kulkarni Scientist, Biochemical Sciences Division, National Chemical Laboratory, Pune -411008 E-mail: mj.kulkarni@ncl.res.in
Dr. A. P. Giri Scientist, Biochemical Sciences Division, National Chemical Laboratory, Pune -411008 E-mail: ap.giri@ncl.res.in	Dr. N. Y. Kadoo Scientist, Biochemical Sciences Division, National Chemical Laboratory, Pune -411008 E-mail: ny.kadoo@ncl.res.in