

Curriculum Vitae

Name: Dr. (Mrs.) SUCHETA PRAKASH DANDEKAR

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Date of Birth 11th August, 1957 .

Education

- 1977: B.Sc., K.C. College, Mumbai University, Maharashtra
- 1979: M.Sc., Haffkine Institute, Mumbai University, Maharashtra
- 1982: Ph.D., Institute for Research in Reproduction (ICMR), Mumbai University, Maharashtra.

Professional experience

- 1983-1989: Lecturer in Biochemistry, Wilson College, Mumbai , Maharashtra
- 1989-1991: Lecturer in Biochemistry, Seth G.S. Medical College, Mumbai, Maharashtra
- 1991-1995: Associate Professor, BYL Nair Ch Hospital, Mumbai, Maharashtra
- 1995-to date: Professor and Head, Department of Biochemistry, Seth G.S. Medical College, Mumbai, and Maharashtra.
- 1996- to date: In-charge, Central Clinical Biochemical Laboratories & Emergency Laboratory, K.E.M. Hospital, Mumbai, Maharashtra
- 2002-2008: Acting Deputy Director, National plasma Fractionation Centre, Mumbai, Maharashtra
- 1989-to date: Recognized guide / Teacher for M.Sc. (by Papers & Research) and Ph.D. in Biochemistry.

Awards

- Effect of Radiation and photolysis in intracellular protease. Jamdar VK, Jamadar SN., Dandekar SP, Hari Mohan, Harikumar P, Asian Photochemistry Conference – 2002, Best Poster Award.
- Seth G.S. Medical College Oration Award at the National Conference of Association of Clinical Biochemists of India at Patna in December 2005.
- Best Teacher award by the Maharashtra University Of Health Sciences June 2007. Judged among 236 colleges from all over Maharashtra.
- Fellowship in Advancement in International Medical Education and Research (FAIMER), Philadelphia, 2010.
- President Association of Clinical Biochemists of India 2010 -2011.
- Awarded the international fellowship in Medical Education to pursue a Masters in Health Professions Education, Keele University, UK. 2014.
- University of Mumbai oration, 160 years celebration, January 2017.

Licenses and Accreditations

- Assessor for National Accreditation Board for Testing and Calibration Laboratories (NABL) since 2006.
- Assessor for National Accreditation Board for Hospitals and Healthcare Workers (NABH) since 2007.

Professional memberships

- Life Member of Association of Clinical Biochemists of India. (ACBI)
- Life Member of International Federation of Clinical Chemistry (IFCC)
- Life Member of Endocrine Society of India
- Life Member of Indian Society for Study of Reproduction & Fertility (ISSRF)
- Life Member of Asian Society of Andrology.

Publications

A) International:

1. Presence of specific receptor binding sites for inhibin in rat spermatids. Dandekar SP, Sheth AR and Ghosh D. *Andrologia*. 1983; 15 (3): 274-278
2. Correlation of serum immunoreactive inhibin gonadotropins to spermatogenesis. Dandekar SP, Sheth AR, Mody Ae and Phadke AM. *Andrologia*. 1984 ; 16(2) : 141-145
3. Levels of Immunoreactive inhibin-like material in urine during the menstrual cycle. Dandekar SP, Vanage GR, Arbatti NJ and Sheth AR. Paper selected for inclusion in POPLINE produced by the Population Infirmatiuon Programme at Johns Hopkins University. *Int. J. Gynaecol. Obstet.* 1983; 21(6) : 443-450
4. Relationship between creatine kinase activity, sperm count, lipid peroxidation and water test in human semen. S Dandekar and G Parker. *The Clinical Biochemists Reviews*. 1999; 21 (iii) 65-104, Pg 99
5. Occurrence of bio-immunoactive inhibin in rat spermatids. Sheth AR, Dandekar SP and N Seethalakshmi. *Andrologia*, 1981; 13: 232
6. Biological characteristics of low and high molecular weight inhibin preparations. Vijayalakshmi S, Sheth PR, Dandekar SP, Vaze AY, Moodbidri SR and Sheth AR. *Int. J. Androl.* 1981; 4: 691-702
7. Inhibin interaction with LHRH receptors at the pituitary level. Sheth R, Dandekar SP, N Seethalakshmi and Sheth AR. *Arch. Androl.* 1982; 8: 185-188
8. Physiology of Inhibin. Sheth AR, S. Vijayalakshmi, Arbatti NJ. Vanage GR, Dandekar SP, Moodbidri SB. *Arch Androl*, 1982: 9: 62-63
9. Regulation of Follicle stimulating Hormone action at the Gonadal level in Hormone receptors in Growth and Reproduction. Edited by BB Saxena et al. Sheth AR, Vanage GR, Vijayalakshmi S, Sheth PR, Krishnan KA, Sarvamangala BS, Moodbidri SR, Dandekar SP, Bandivdekar AH and Arbatti NJ. Raven Press. 1984: 257-270
10. Taux d'une substance immune reactivement identique a L'inhibin chez des femmes et infecondes., Hurkadli KS, Dandekar SP and Sheth AR. *Fertilite*. 1986 ; 14(3): 229-234.
11. Presence of Hypophysial-pituitary, intestinal hormones in normal and abnormal tests. *Assisted Reproductive Technology / Andrology, ARTA, Volume III issues 3,4., MC Chang Festschrift II, 273-280 (1992),* Garde SV, Mehta MK, Sheth AR and Dandekar SP.
12. Development and Validation of an ELISA for Haemoglobin A2: A novel method for b-Thalassemia Screening in Developing Countries. Shyla R Menon, M Ikram Khatkhatay, Sucheta P Dandekar, Zarine Mpatel. *Journal of Immunoassay & Immunochemistry*. 2004; 23(2) 135-146.
13. Radiation inactivation study of aminopeptidase: probing the active site. VK Jamadar. SN Jamdar, Hari Mohan, SP Dandekar, P Harikumar. *Radiat. Phys and Chem*. 2004; 69: 473-479.

14. Role of proteases in the pathophysiology of cardiac disease. Raja B Singh., SP Dandekar, Vijayan Eliban, Suresh K Gupta and Niranjan S Dhalla. *Molecular and Cellular Biochemistry*. 2004; 263; 241-256
15. B-Thalassaemia carrier detection by ELISA – A simple screening strategy for developing countries. Dr. M Shyla Ravindran, Dr. Zareen M Patel, Dr. Ikram Khatkhatay, Dr. SP Dandekar. *Journal of Clinical Laboratory Analysis*. *Journal of Clinical Analysis* 2005; 19: 22-25.
16. “The importance of accreditation in biochemistry set-up.” Lead article in International Conference in proceedings of “Quality of healthcare in changing environment: opportunities and challenges.” Dr. SP Dandekar and Dr. BN Dave
17. Iron deficiency anemia and obesity : incidence, consequences and therapeutic implications in shift workers. Sucheta Dandekar and G Ibrahim. *Chinese Medical Journal*. 2007 ; 120(2) : 203.
18. Detection of molecular prognostic factors in acute myeloid leukaemia by protease chain reaction. Sucheta Dandekar and S. Mahadik. (P18-05) *Chinese Medical Journal*. 2007 ; 120(2) : 262.
19. Selection of viable spermatozoa from testicular biopsies: a comparative study between pentoxifylline and hypoosmotic swelling test .Vijay Mangoli, Ranjana Mangoli, Sucheta Dandekar, Kavita Suri, Sadhana Desai *Fertility and Sterility* Volume 95, Issue 2 , Pages 631-634, February 2011
20. The basic structural motif and major biophysical properties of Amyloid- β are encoded in the fragment 18-35 *Chemical Physics*, Volume 422, p. 80-87. Muralidharan Chandrakesan; Bidyut Sarkar; Venus S Mithu; Rajiv Abhyankar; Debanjan Bhowmik; Suman Nag; Bankanidhi Sahoo; Riddhi Shah; Sushma Gurav; Raja Banerjee; Sucheta Dandekar; Jaya C Jose; Neelanjana Sengupta; Perunthiruthy K Madhu; Sudipta Maiti
21. Subramani E, Basu H, Thangaraju S, Dandekar S, Mathur D, and Chaudhury K. Rotational Dynamics of Optically Trapped Human Spermatozoa. *The Scientific World Journal*, 2014, 154367.
22. Development of an ELISA for sPSP94 and utility of the sPSP94/sPSA ratio as a diagnostic indicator to differentiate between benign prostatic hyperplasia and prostate cancer . *Clinica Chimica Acta* 436 (2014) 256–262 Deepa R. Mhatre, Smita D. Mahale, Mohammed I. Khatkhatay, Swapna S. Desai, Dhanashree D. Jagtap, Jayesh V. Dhabalia , Hemant B. Tongaonkare, Meena P. Desai, Sucheta P. Dandekar , Anand M. Varadkar
23. Dandekar, S., Gibson, F. and Jamieson, S. (2014) Learning basic sciences. FAIMER-Keele Master’s in Health Professions Education: Accreditation and Assessment. Module 6, Unit 3. FAIMER Centre for Distance Learning, CenMEDIC, London
24. MURZELLO, K., KAUNDINYA, J. O., & DANDEKAR, S. (2014). SIMPLIFIED METHOD FOR PURIFICATION OF C-FRAGMENT FROM TETANUS TOXIN AND TOXOID BY ENZYMATIC FRAGMENTATION AND CHROMATOGRAPHY. *INDO AMERICAN JOURNAL OF PHARMACEUTICAL RESEARCH*, 4(10), 4060-4066.
25. Maksane, S. N., & Sucheta, P. (2015). Influence of age, body fat distribution, alcohol consumption and smoking on liver enzymes activity in apparently healthy western Indian males. *International Journal of Recent Trends in Science and Technology*; 13(3): 546-551.
26. Maksane S.N, Guhasarkar S, Banerjee R. & Dandekar S.P. (2015). Evaluation of surface properties of erythrocyte membranes in liver diseases." *IJRMS*; 3(3), 593-601.
27. Dandekar SP, Maksane SN and McKinley D. (2015). Design of Medical Biochemistry Undergraduate Laboratory Based Curriculum to Address Unmet Needs. *SEAJME*. [In Press].
28. Significance of Expression of PSP94 Isoforms in Etiology of Benign Prostatic Hyperplasia and Prostate Cancer. Deepa R Mhatre, Smita D

- Mahale, Jayesh V Dhabalia, Hemant B Tongaonkar, Gwendolyn C Fernandes, Sucheta P Dandekar, Anand M Varadkar. *IJSS Journal of Surgery*. 2015;1(3):1-7.
29. Mhatre D, Mahale S, Khatkhatay M, Achrekar S, Desai S, Jagtap D et al. The rs10993994 in the proximal MSMB promoter region is a functional polymorphism in Asian Indian subjects. *SpringerPlus*. 2015;4(1).
 30. Rajopadhye S, Mukherjee S, Dandekar S, Chowdhary A. Oxidative stress in HIV/AIDS patients in Mumbai, India. *J Virol Curr Res*. 2015; 1(1):001-006.
 31. P. H. Paradkar, S. P. Dandekar, J. V Joshi, A. J. Amonkar, and A. D. Vaidya, "Assessment of In vitro - In vivo Antimigratory and Anti-angiogenic Activity of Curcuma longa Linn. and Tinospora cordifolia Willd. Extracts in Cervical Cancer," *Int. J. Pharm. Sci. Rev. Reseach*, vol. 42, no. 17, pp. 87-93, 2017.
 32. Nilanjana Guha Niyogi, S. P. Dandekar, Shalini Maksane, V. W. Patil, L. G. Abhichandani. "Predictive value of serum cystatin C in post-operative renal dysfunction coronary artery bypass grafting." *Med Pulse-International Medical journal*. March 2017; 4(3): 373-378.
 33. Nilanjana Guha Niyogi, S. P. Dandekar, Shalini Maksane, V. W. Patil, L. G. Abhichandani. "Study of serum Cystatin c, beta- 2 microglobulin and protein carbonyl in diabetic nephropathy." *Med Pulse- International Medical journal*. March 2017; 4(3): 387-393.

B) National:

1. Ketone bodies – How good ,How bad ? – Clinical Review. Dandekar SP., *Int J Int Med*. 1992 December: 3: 163-164
2. Management of Male infertility – an assay used to assess sperm membrane function. – our experience. Dandekar SP. *Ind J Endocrinol Metabol*. 1997; 11:(1)
3. Seminal profiles of lysosomal enzymes in normal and infertile men. Dandekar SP and Harikumar P. *J of Postgrad Med*. 1997; 43(ii): 33-36
4. Lipid peroxidation and antioxidant enzymes in male infertility. Dandekar SP, Nadkarni GD, Kulkarni VS and Punekar S. *J Postgrad Med*. 2002; 48: 186-190
5. The history of Biochemistry in India. Deshmukh UD, Phatarphekar GV, Dandekar SP. *Journal of Postgraduate Medicine*. 2001;47(3): 222-225
6. Radiation and photoinduced inactivation of aminopeptidase. Jamadar VK, Jamadar SM, Harimohan, Dandekar SP, Harikumar P. *ISRPS Bulletin*. 2003; Feb: 20-24
7. Influence of Radiation and photolysis on Intracellular proteases. Jamadar VK, Hari Mohan, Dandekar SP. *BARC Newsletter*, Issue No. 237, October 2003
8. Purification and characterization of aminopeptidase from chicken intestine. Jamadar VK, Jamadar SM, Harimohan, Dandekar SP, Harikumar P. *Journal of food science*. 2003; 68: 438-443
9. Identification and purification of an aspartic proteinase from human semen. Pardesi SR, Dandekar SP, Jamdar SN and Harikumar P. *Indian Journal of Clinical Biochemistry*. 2004; 19(2) : 96-102
10. Oxidative stress and antioxidants in Chronic Renal Failure (CRF). Dandekar SP, Yogesh Shah, A Chowdhary and A. Almeida. *Trends Clin Biochem Lab Med*. 2003; 612-617
11. Influence of Blood specimen collection method on various preanalytical sample quality indicators. Tester F Ashavaid, Sucheta P Dandekar, Bhamini Keny and Vishaal R Bhambhwani. *Indian Journal of Clinical Biochemistry*,

2008, Vol. 23 (2),144-149.

12. The outcome of ART in males with impaired spermatogenesis. Mangoli VS, Dandekar SP, Desai SK, Mangoli RV. *J Hum Reprod Sci* 2008;1:73-6
13. Influence of Method of Specimen Collection on Various Preanalytical Sample Quality Indicators in EDTA Blood Collected for Cell Counting - Tester F.Ashavaid,Sucheta P Dandekar, S Khodaiji, M H Ansari and Adarsh Pal Singh. *Indian Journal of Clinical Biochemistry*, 2009, Vol. 24 (4),356-360.
14. Dandekar SP, Maksane SN, McKinley D: A Survey Validation and Analysis of Undergraduate Medical Biochemistry Practical Curriculum in Maharashtra, India. *IJCB* 2012, 27(1): 52-60.
15. The Dynamic Roles Played by a Biochemist *IJCB*, <http://link.springer.com/article/10.1007/s12291-014-0454-0>
16. Maksane SN, Dandekar SP, Shukla A and Bhatia S. (2015). Hepatic Enzyme's Reference Intervals and their modulating factors in Western Indian population. *IJCB* (Jan-Mar 2016) 31(1):108-116.
17. P. Paradkar, M. L S, J. J. V, S. P. Dandekar, R. Vaidya, and A. B. Vaidya, "In vitro macrophage activation: A technique for screening anti-inflammatory , immunomodulatory and anticancer activity of phytomolecules," *Indian J. Exp. Biol.*, vol. 55, no. March, pp. 133–141, 2017.

C) Books:

1. Author of "Concise Medical Biochemistry" Published by Elsevier. 3rd Edition 2010. Sole Author.
2. The art of teaching medical students., 2nd Edition – Teaching Learning Methods, Page 95. 2002.
3. Author- "Introduction to clinical biochemistry" Dandekar SP. Sole author. 2001. Career Publications.
4. Practical Biochemistry and Viva Voce, Dandekar SP and Dr Rane SA. Elsevier Publications.
5. From Mastery to Excellence. In the heart and soul of ARTs in the laboratory – The inside story. Vijay Mangoli, Sadhana Desai, Sucheta Dandekar. Edited by Prakash Trivedi and Priti Trivedi. Published by Jaypee. Chapter 24, Pages 210-216: 2004.
6. Nutrition and Biochemistry for Nurses by Sreemathy Venkatraman and Sucheta Dandekar Elsevier 2011. Nutrition and Biochemistry for Nurses, 2e, Venkatraman and Dandekar. Elsevier publication, 2015
7. The Art of Teaching Medical Students, 3e, Bhuiyan, Rege, Supe. Chapter on Large group teaching: Lecture as a teaching tool by Munira Hirkani and Sucheta Dandekar. Elsevier publication, 2015

Experience Abroad:

1. Study tour to Population Council, New York : Royal Veterinary College, London Institute of Zoology, Institute of Animal Physiology, and Cambridge, in November, 1985 .
2. Presented paper entitled " Presence of Hypophysial - Pituitary, intestinal hormones in normal and abnormal testis " at International Conference, ARTA ; held at Tossa de Mar, Barcelona, Spain, August, 1992 .
3. Visit to Prof. Aldo Isidori's Infertility laboratory in Rome, Italy in September, 1992.
4. Attended Quality Control update Workshop at Melbourne, Australia, October 1999.

5. Visiting Scientist / Professor to Institute of Cardiovascular Diseases, University of Manitoba, Canada, May – July 2003 .
6. Workshop on Cardiovascular diseases , WHO. Turkey. October 2007.
7. Fellowship in Advancement In International Medical Education and Research (FAIMER), Philadelphia, 2010.
8. Invited lecture at Department of Laboratory Medicine of U C Davies Medical school, California, U S A on ‘setting up quality goals for the laboratory and beyond’ in May 2011.

Conferences Organised :

- Conference on “Vas deferens holistic andrology perspective”, K.E.M. Hospital, Parel, Mumbai 400 012, 23rd - 24th November 2004”. In collaboration with IIT Kharagpur and Andrology Society of India.
- International Conference on “Quality Health in Changing Environment : Opportunities & Challenges” at K.E.M. Hospital, Parel, Mumbai 400 012, 4th February 2005. In collaboration with Nuffield International Health and Development Group, University of Leeds, UK.
- Started Certificate course in Good Laboratory Practises October 2005. Continued till date every year.
- Organized workshop on Quality Control at the “ Asia Pacific Federation of Clinical Biochemistry - Beckman Coulter- Educational Symposia “at K. E. M. Hospital and G. S. Medical College, on 15th December 2005. Dr. Ken Sikaris, chair, Melbourne Pathology, Melbourne, Australia was the visiting scientist.
- Organized the 37 National Conference of Association of Clinical Biochemists of India, December 11 to 15 2010 at the World Trade Centre.

Other Activities :

- a) Invited to Chair session at seminar on “Emerging opportunities and challenges for Women in the nineties ”. Sponsored by International Labour Organisation, September 1993 at Hotel President, Mumbai.
- b) Talks on All India Radio Science Broadcast Executive committee Member of ACBI 1997- 2000.
- c) All India Radio - Answers to scientific queries
- d) Convener for Inspection of pharmaceutical factories by M. C. G. B. for giving ‘star status’.
- e) Medical education technology cell member at Seth G. S. Medical College.
- f) Student Counseling cell member at Seth G. S. Medical College.
- g) Foundation day committee member at Seth G. S. Medical College.
- h) Scientific advisory board of Siro research foundation.

Activities related to medical education

- Invited by Medical Council of India for preparation of the curriculum of the Ist, IInd and final professional MBBS course and preparation of integrated teaching modules (Horizontal & Vertical) with related Clinical/Pre-Clinical & Para Clinical disciplines –the UG working group in 2011.