

CURRICULUM VITAE

Name: Praveenkumar Shetty

Affiliation: **Research Co-Ordinator/Professor**
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Date of Birth : 20-07-1971

Education:

Post Doctorate: UT Health Science Center at Tyler, Texas, USA - Lung Fibrosis, Lung Cancer -2005-2008

: UNT Health Science Center at Fort Worth, Texas, USA- Cancer Biology - 2008-2011

Ph.D. (Biochemistry) Karnataka University, Dharwad, Karnataka, India, 2000

M.Sc. (Medical Biochemistry). Manipal University, Manipal, India, 1995

B.Sc. (Biology). Mangalore University, Mangalore, India, 1992

Academic Appointments:

July1- Till date **Research Co-ordinator/Professor**, Central Research Laboratory/ Department of Biochemistry, SDM College of Medical Sciences & Hospital, Dharwad, Karnataka

2011-June 2016 **Research Co-Ordinator/ Associate Professor**, Central Research Laboratory/Department of Biochemistry, SDM College of Medical Sciences & Hospital, Dharwad, Karnataka, India

2009- March 2011- **Research Scientist**, Dept. of Molecular Biology and Immunology, UNT Health Science Center at Fort Worth, Texas, USA

2008-June 2009- **Post Doctoral Research associate**, Department of Molecular Biology and Immunology, University of North Texas Health Science Center at Fort Worth, TX, USA "Analysis of different biomarkers in breast cancer and Prostate cancer."

2005-May 2008-**Post Doctoral Research Associate**, Department of Specialty Care Services, Biomedical Research Center, The University of Texas Health Center at Tyler, TX, USA "Lung Fibrinolysis, Injury and Cancer: Post transcriptional regulation of uPA, uPAR and PAI-I."

2004-2005- **Assistant Professor**, Dept. of Biochemistry, SDM college of Medical Sciences, Dharwad, India

2001-2003- **Assistant Professor**, Dept. of Biochemistry, SDM college of Dental Sciences, Dharwad, India

1996-2001- **Lecturer**, Dept. of Biochemistry, SDM college of Dental Sciences, Dharwad, Karnataka, India

1995-1996 - **Research Associate**, Department of Science and Technology, India

Teaching and Training Experience:

Twenty years of teaching Medical(PhD and MD students in USA) Dental and Physiotherapy graduate and post graduate students. Teaching theory and practical core classes on Chemistry, Metabolism, Nutrition and Clinical Biochemistry to Graduate and Postgraduate students.

- Curriculum development of the I year BPT, BDS and MBBS Biochemistry courses, pre PhD and PhD students
- Assignment of lecturers for the core courses
- Administration of exams and assignment of final grades

Worked as Examiner of Medical Biochemistry for Karnataka University, Dharwad, Rajiv Gandhi University of Health Sciences, Bangalore, Goa University and Manipal University

Recognised Ph.D guide in RGUHS Bangalore, Nitte University, Mangalore and BLDE University Vijayapura

Honors/Awards

Alcon Research award, for Triple Negative Breast Cancer research from University of North Texas Health Science Center-2009

Tech Fort Worth Research Innovation award -2009.

Research award-2010 from Cancer Research Foundation of North Texas

Areas of Special Interest:

Proteases & Protease inhibitors

Carbohydrate chemistry

Metabolic Disorders-Screening and further work up.

Diagnostic enzymology

Lung injury and fibrinolysis

Breast cancer Research (Triple Negative Breast Cancer)

Prostate Cancer Research

miRNA mediated regulation of Oncogenes and Tumor Suppressors

Stem cell Biology

Nanoparticle formulation and Characterization

Rheumatoid Arthritis

Invited Presentations at International meetings:

Gave a presentation on “Characterization of Biomarker and Therapeutic Target for Triple Negative Breast Cancer” in Global Cancer Summit-2015 held at J.N.Tata Auditorium, Indian Institute of Science, Bengaluru, India on 18-20th November 2015

Invited speaker in Carcinogenesis 2015 International conference organized by Carcinogenesis Foundation, USA and ACTREC Mumbai “Molecular pathways to Therapeutics: Paradigms and challenges in Oncology” 11-13th February 2015.

Gave a presentation in 41st National Conference of Association of Clinical Biochemists of India, “Integration in Lab Medicine: The emerging Paradigm” held at AIIMS Jodhpur Rajasthan from 10-13th December, 2014.

Gave a Lecture in 33rd Annual Convention of Indian Association for Cancer Research “Discovery, Innovation and Translation in Cancer Research” held in Rajiv Gandhi Center for Biotechnology, Thiruvananthapuram from 13-15th February, 2014.

Invited speaker in “Glycobiology of Cancer; Lectins as Tools and Targets” GCLTT 2013 (UK-India Education and Research Initiative) held in Karnataka University, Dharwad on 7-9th November 2013.

Worked as convenor and invited speaker in 33rd Annual Conference of Indian Association of Biomedical Scientists “Recent trends and advances in biomedical research-an integrated approach” held in Nitte University, Mangalore on November 1-3rd, 2012.

Reciprocal regulation of Her-2 and annexin A2 in Her-2 negative breast cancer. **Shetty PK** and Vishwanatha JK., Mechanisms and Models of Cancer held at Cold spring Harbour laboratories, New York, USA during August 2010.

Annexin A2 as a biomarker and potential therapeutic target for Triple Negative Breast Cancer. **Shetty PK** and Vishwanatha JK., 4th annual Texas Conference on Health Disparities held at University of North Texas Health Science Center at Fort Worth, USA during May 2009.

Attended Cellular energy metabolism and cancer symposium held in MD Anderson Cancer Research Institute, Houston, USA on April 3rd and 4th 2009.

Regulation of urokinase receptor expression by urokinase is through tyrosine phosphorylation of Phosphoglycerate kinase. **Shetty PK**, Velusamy T, Bhandary YP, Liu MC, Idell S, Shetty S. American Thoracic Society Conference held at Sanfransisco, USA during May 2007.

DNA damage in peripheral blood leucocytes in Tobacco users. **Shetty PK** and Pattabiraman TN. ACBI Conference held at Belgaum, India during December 2004.

DNA damage in squamous cell carcinoma. **Shetty PK** and Pattabiraman TN. ACBI conference held in Bangalore, India during January 2004.

Serum glycoproteins in Head and Neck Malignancy. **Shetty PK**, Keerthi N. and Pattabiraman TN. ACBI Conference held at Jaipur, India during February 2003.

Salivary glycoproteins as indicators of oral diseases. **Shetty PK** and Pattabiraman TN. ACBI conference held at Nagpur, India during January 2002.

Salivary proteases and protease inhibitors. **Shetty PK** and Pattabiraman TN. ACBI conference held at Vellore, India during February 2000.

Peer-reviewed publications:

Glucose Induced activation of canonical wnt signaling pathway in hepatocellular carcinoma is regulated by DKK4., SurbhiChouhan, Snahlata Singh, DiptiAthavale, Vimal Pandey, Jomon Joseph, Rajashekar Mohan, **Praveenkumar Shetty** and Manoj Kumar Bhat., **Scientific Reports** (In Press, IF: 6)

Annexin A2 and its Downstream IL-6 and HB-EGF as Secretory Biomarkers in the Differential Diagnosis of Her-2 Negative Breast Cancer., **Praveenkumar Shetty***¹, Vidya S Patil¹, Rajashekar Mohan, Leonard Clinton Desouza¹, Anil B¹, Basavraj R. Patil, Dinesh U. S, VikramHaridas, Srirang Kulkarni¹., **Annals of Clinical Biochemistry**(In Press, IF: 2.5)

Cell Surface Interaction of Annexin A2 and Galectin-3 Modulates Epidermal Growth Factor Receptor Signaling in Her-2 Negative Breast Cancer Cells., **PraveenkumarShetty**,Anil B, Basavraj R. Patil, Rajashekar Mohan, Dinesh U. S, JamboorK.Vishwanatha, Pramod B. Gai, Vidya S Patil, Amsavardani TS., **Mol Cell Biochemistry** (IF: 2.7) 2016, 411 (1), 221-233

MIEN1, a novel interactor of AnnexinA2, promotes tumor cell migration by enhancing AnxA2 cell surface expression. MarilyneKpetemey, SubhamoyDasgupta, SmtithiRajendiran, Sushoban Das, Lee D Gibbs, **PraveenkumarShetty**,ZygmuntGryczynski, Jamboor K Vishwanatha., **Molecular Cancer** (IF: 4.0) 2015, 14 (1), 1

Inhibition of Triple-negative and Herceptin-resistant Breast Cancer cell Proliferation and Migration by Annexin A2 antibodies. P Chaudhary, S I Thamake, **P Shetty**, J K Vishwanatha.,**British Journal of Cancer (IF: 5.0)**,111 (12), 2328-2341

Reciprocal regulation of AnxA2 and EGFR with Her-2 in Her-2 negative and Herceptin-resistant breast cancer.**ShettyPraveenkumar**,Thamake Sanjay, Biswas S, Johansson S, Vishwanatha JK **PLOS ONE**, (IF:4.0)7(9): 2012, e44299. doi:10.1371/journal.pone.0044299

Shwetha K. Shetty, Amarnath S. Marudamuthu, Daniel Abernathy, Rashmi S. Shetty, **PraveenkumarShetty**,Jian Fu, Steven Idell, Yashodhar P. Bhandary, HonglongJi, Ming-ChehLiu,andSreeramaShetty.,Regulation of Urokinase expression at the posttranscriptional level in lung epithelial cells, **Biochemistry**(IF:3.8), 2012, 51, 205-213

Signal transducer and activator of transcription 6 (STAT6) is a novel interactor of Annexin A2 in Prostate cancer cells. Susobhan Das, **PraveenkumarShetty**,MallikaValapala, SubhamoyDasgupta, ZygmuntGryczynski, and Jamboor K. Vishwanatha.,**Biochemistry (IF: 3.8)** 2010, 49, 2216–2226

Urokinase receptor expression involves tyrosine phosphorylation of phosphoglycerate kinase. **Shetty PK**,Velusamy T, Bhandary YP, Liu MC, Shetty S. **Mol Cell Biochem (IF: 2.7)**, 2010 *Feb*;335 (1-2):235-47. PMID: 19784757

Stabilization of uPA mRNA: a regulatory role of p53 in urokinase expression. **Shetty PK**, Velusamy T, Bhandary YP, Idell S, Shetty S. **American Journal of Respiratory Cell and Molecular Biol (IF:5.0)**, 2008. 39, 364-372.

Induction of tissue factor by urokinase in lung epithelial cells and in the lungs. Shetty S, Bhandary YP, Velusamy T, **Shetty PK**, Khalil B, Gyetko MR, Cines DC, Idell S, Neuenschwander PF, Clemens R, Gunther A, Abraham E and Shetty RS. *Am. J. Respir. Crit. Care Med.*, (IF:13.0)Volume 181, Number 12, June 2010, 1355-1366.

Posttranscriptional Regulation of Plasminogen Activator Inhibitor-1 Expression in Human Pleural Mesothelial cells. Sreerama Shetty, Thirunavukkarasu Velusamy, Rashmi S Shetty, Amarnath Satheesh Marudamuthu, Shwetha K. Shetty, Galina Florova, Torry Tucker, Kathy Koenig, **Praveenkumar Shetty**, Yashodhar P Bhandary and Steven Idell. *Am J Respir Cell Mol Biol.* (IF: 5.0), 2010 Sep; 43(3):358-67.

Posttranscriptional Regulation of uPAR Expression in Lipopolysaccharide induced Acute Lung Injury. Bhandary YP, Velusamy T, **Shetty PK**, Shetty RS, Idell S, Cines DB, Khalil B, Abraham E, Yuko T and Shetty S. *Am J Respir Crit Care Med.* (IF: 13), 2009 Feb 15;179(4):288-98.

Regulation of plasminogen activator inhibitor-1 expression by tumor suppressor protein p53. Shetty S, **Shetty PK**, Idell S, Velusamy T, Bhandary YP and Shetty RS. *J. Biol. Chem.*(IF:5.0), 2008, 283 (28), 19570-19580.

Posttranscriptional regulation of urokinase receptor expression by heterogeneous nuclear ribonuclear protein C. Velusamy T, **Shetty PK**, Bhandary YP, Liu MC, Shetty S. *Biochemistry*,(IF:3.8) 2008 47 (24), 6508–6517.

Regulation of urokinase receptor expression by protein tyrosine phosphatases. Shetty S, Velusamy T, Idell S, Tang H, **Shetty PK**. *Am J Physiol Lung Cell Mol Physiol.* (IF:4.0), 2007 Feb;292(2):L414-21.

Regulation of urokinase receptor expression by p53: novel role in stabilization of uPAR mRNA. Shetty S, Velusamy T, Idell S, Shetty PK, Mazar AP, Bhandary YP, Shetty RS. *Mol Cell Biol.* (IF:5.0), 2007; 27:5607-18.

Salivary proteolytic activities in gingivitis, periodontitis and diabetes mellitus, **Shetty PK** and Pattabiraman TN. *Indian Journal of Clinical Biochemistry*, 1998, 13(1), 46-51.

Evaluation of glycoproteins as prognosticators in head and neck malignancy, Keerthi N, Kannan N, **Shetty PK**, *Indian Journal of Dental Research*, 2001,12(2).

Salivary glycoproteins as indicators of oral diseases, *Indian Journal of Clinical Biochemistry*, **Shetty PK** and Pattabiraman TN. 2004, 19(1),97-101.

***Financial support received**

1. **From ICMR (Current, 2012-2015):** Adhoc research project on “Identification and Characterization of novel biomarker and therapeutic target for Triple Negative Breast Cancer”.

2. **From RGUHS (Current, 2015-2017):** “Standardisation of Ex-vivo Cultured Limbal Epithelial Stem Cell Transplantation - A Collaborative Study between Ophthalmologist and Cell Scientist”
3. **Rheumatoid Arthritis Research foundation, Hubli (private):** 2015-2018., “Identification of Proinflammatory Regulators and their Role in Pathogenesis of Rheumatoid Arthritis”

Other sources (Past): From ***Cancer Research Foundation of North Texas***, USA, (PI), 2009-2011. The research focus was on TNBC, towards understanding the mechanisms for prevalence of TNBC in African Americans (Health disparity) and to elucidate the signaling cascade at the molecular level.