

**CURRICULUM VITAE**

**NAME: P. RAMARAO**  
**Dean, Academic Affairs**  
 Dean, School of Basic and Applied Sciences  
 Professor, Centre of Chemical and Pharmaceutical Sciences  
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Date of Birth: **30.06.1955**

**EDUCATION:**

|      |                           |  |
|------|---------------------------|--|
| 1977 | <b>B. Pharm.</b>          | Banaras Hindu University, Varanasi                 |
| 1979 | <b>M. Pharm.</b>          | Banaras Hindu University, Varanasi                 |
| 1986 | <b>Ph. D.</b>             | Banaras Hindu University, Varanasi                 |
| 1987 | <b>Research Associate</b> | University of Illinois, Chicago                    |
| 1989 | <b>Research Fellow</b>    | Harvard Medical School, Harvard University, Boston |

**HONORS AND AWARDS**

1. University Grants Commission Fellow, Government of India, 1977- 1979.
2. Prof. M.L. Schroff's Memorial Award for the best paper presentation at 34th Indian Pharmaceutical Congress along with Golden Jubilee Celebrations of Pharmaceutical Education in India, Varanasi, December, 82.
3. Postdoctoral fellowship of NIDA research scheme in Department of Pharmacodynamics, College of Pharmacy, University of Illinois at Chicago, U.S.A. 2nd Feb., 1987 to 31st August, 1989.
4. Research Fellowship in Department of Surgery, Harvard Medical School, Harvard University, U.S.A. 1st Sept. 1989 to 31st August, 1990.
5. UGC Career Development Award, 1995. Not availed and joined NIPER
6. Dr. I. C. Chopra Award 2003, Regional Research Laboratory, Jammu
7. Dr. G. S. Sidhu Science Lecture 2005, Indian Institute of Chemical Technology
8. AICOI's Punjab Ratan Award 2005, All India Conference of Intellectuals, Punjab
9. CDRI Oration Award 2005, Central Drug Research Institute, Lucknow
10. Mrs P.P.Suryakumari Prize (Gold Medal), 2005, Indian Pharmacological Society (IPS)
11. Rajbhasha Award 2008, Town official Language Implementation Committee (TOLIC), Chandigarh, Home Ministry, Govt. of India
12. ISCB Award for Excellence 2009, Indian Society of Chemists & Biologists.
13. Pharma-Bio 2009 Award, CHEMTECH Foundation, Mumbai

**POSITIONS HELD**

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| 3 <sup>rd</sup> Mar. 14- 4th Spet., 14 | <b>Acting Vice Chancellor, Central University of Punjab, Bathinda</b>                              |
| 2011 –Till date                        | <b>Dean Academic Affairs, Central University of Punjab, Bathinda</b>                               |
| October 2010 – till date               | <b>Professor of Chemical and Pharmaceutical Sciences, Central University of Punjab, Bathinda</b>   |
| 2010-October 2010                      | <b>Professor of Biosciences, Central University, Punjab, Bathinda</b>                              |
| 2004-2009                              | <b>Director, NIPER, S.A.S. Nagar, Punjab</b>   |
| 2000-2009                              | <b>Professor and Head, Department of Pharmacology &amp; Toxicology, NIPER, S.A.S. Nagar</b>        |
| 1995-2000                              | <b>Associate Professor, Department of Pharmacology &amp; Toxicology, NIPER, S.A.S. Nagar</b>       |
| 1990-1995                              | <b>Reader in Pharmacology, Department of Pharmaceutics, Banaras Hindu University, Varanasi</b>     |
| 1989-1990                              | <b>Research Associate, Department of Surgery, Beth Israel Hospital, Harvard University, Boston</b> |
| 1987-1989                              | <b>Research Associate, Dept. of Pharmacodynamics, The University of Illinois at Chicago</b>        |
| 1980-1987                              | <b>Lecturer, Department of Pharmaceutics, Banaras Hindu University, Varanasi</b>                   |
| 1979-1980                              | <b>Pharmacologist, Analytical Testing Services, New Delhi</b>                                      |

**Committee Members**

- (i) Chairman, Expert Committee to examine the applications for exemption from price control for drugs (DPCO, 95) constituted by the Ministry of Chemical & Fertilizers, Sept. 2004- 2009
- (ii) Chairman, IDPL Revival Committee, Sept. 2004- Sept. 2005
- (iii) Chairman, Sub-group on Pharmacy Education of the working group on technical education for formulation of 11<sup>th</sup> five year plan under Ministry of HRD, Sept. 2006.
- (iv) Chairman, Board of Studies- Pharmacy, AICTE, March 2005- Aug. 2006
- (v) Chairman, Project Review and Steering Group (PSG) of Department of Information Technology, Oct. 2005- 2011.
- (vi) Chairman, Committee for setting up of new Institutes on the lines of NIPER, Dec. 2005- Jan. 2006
- (vii) Chairman, Sub Group III on R&D of The Working Group on Drugs & Pharmaceuticals, MCF. 11<sup>th</sup> Five Year Plan (2007-2012), GoI, June 2006- Sept 2006
- (viii) Member, PRDSF, DST, Feb. 2004 – Feb. 2007
- (ix) Member, DPRP, DST, Sept 2004- 2009.
- (x) Member, Investigational New Drug Committee, DCGI, GOI, Sept 2004- 2009.
- (xi) Advisory Member, USP-India, March, 2005
- (xii) Member, Working Group on Drugs & Pharmaceuticals, MCF. 11<sup>th</sup> Five Year Plan (2007-2012), May 2006- 2009.
- (xiii) Member, Steering Committee on “Development of Potential Drugs from the Ocean” (Drugs from the Sea), Feb. 2006- till date
- (xiv) Member, Expert committee of Drugs and Pharmaceutical Research Program, DST. 2007- 2009.
- (xv) Member, Indian Pharmacopoeia Commission, 2007 – 2009
- (xvi) Member, Selection Committee for Faculty Positions of Panjab University (Nominee, Vice President of India), April 2009- March 2011
- (xvii) Member, Board of Studies in Human Genomics, Panjab University, Chandigarh, April 2009- March 2011
- (xviii) Member, Board of Studies in Biotechnology, Panjab University, Chandigarh, April 2009- March 2011
- (xix) Member, Advisory Committee, Nanotechnology/Biotechnology/Information Technology, Sri Guru Granth Sahib World University, Fatehgarh, Near Chandigarh, May 2009.
- (xx) Organising Secretary, Indian Pharmacology Society -Annual Conference, November, 2007
- (xxi) Member, Executive Council of the Central University of Punjab, Bhatinda, August 2009 – 2010
- (xxii) Member, DOP, MCF Committee to review the report of Deloitte April 2009-June 2009

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## **GRADUATE STUDENT TRAINING/EXPERIENCE**

Thesis advisor of Ph. D. – Ten

Thesis advisor of M. Pharm./M.Tech. /M.S. (Pharm.)/M.B.A. (Pharm.) Forty three

## **COUNTRIES VISITED**

USA, Canada, Japan, Tunisia, Belgium, Netherland, Finland

## **RESEARCH GRANTS/PROJECTS**

### **A. Industry sponsored project**

#### **1) TITLE : "Mechanism of action of PRO-IMMU"**

SOURCE: Envin Bioceuticals, Sharada Nagar, Saharanpur

PROIMMU, a polyherbal formulation, containing immunomodulatory plant materials' action on mitogen induced lymphocyte proliferation and NK cell activity. The lymphocyte proliferation was estimated by thymidine incorporation using radiolabelled compound. Study of NK Cell activity with Pro-Immu treated mice against K 562 cell line. Chronic administration of PROIMMU in vivo is having an inverted U shaped dose response curve on mitogen induced proliferation. The effect of PRO IMMU on different hematological parameters is also investigated. Evaluation of antimutagenic activity of Pro-Immu against cyclophosphamide. The total funding of the project is Rs 1.40 lakhs

#### **2) Title: Screening of Herbal Compounds**

**Source : Dabur India Ltd., New Delhi**

Screening of polyherbal compounds and their formulations for anti-inflammatory, analgesic, immunomodulatory, anti-diabetic activity. The total funding of the project is Rs 6.00 lakhs

### **B. CSIR sponsored work**

#### **Title: Opioid Tolerance and Dependence**

- 1) To establish the cause and relationship in opioid tolerance and dependence and to inhibit and reverse the development of tolerance and dependence to opioid agonists and establishment of their mechanism of action.

#### **Title: Oral Delivery of Insulin**

- 2) NMITLI Project "Oral delivery of insulin" March, 2006 to Dec, 2008(Principal Investigator). The total funding of the project is Rs 22.40 lakhs.

C. **DST Sponsored**

- i) **Transdermal Iontophoretic delivery of peptide /proteins** : Aim of this proposal is to standardize the technique of transdermal iontophoresis for peptide/protein drugs working as co-principal investigator. The total funding of the project is Rs 13.64 lakhs.
- ii) **National Centre for Pharmacoinformatics (NCPI) for setting up of computational facility for pre clinical drug discovery**: Principal Investigator (2005-2008). The total funding of the project is Rs. 1.5 Crores.
- iii) **Center for Pharmaceutical Nanotechnology (July 2006 – Dec 2009)**: Centre for pharmaceutical nanotechnology (CPN) establishment: (Principal investigator) objectives are “preparation, characterization pharmacodynamic & toxicity evaluation of drug loaded nanoparticles to treat cancer, hypertension, diabetes and metabolic syndrome” and Development of in vitro and in vivo models for the toxicological studies of nanoparticles used in drug delivery and biomedical applications. The total funding of the project is Rs. 9.59 Crores.
- iv) Nano-toxicology project: “Facility Development for the toxicity screening of nanoparticles used for drug delivery and to elucidate its mechanism of action”: 2008-2011, 3 years (co-investigator). The total funding of the project is Rs. 2.24 Crores.
- v) “Design and synthesis of dual PPAR  $\gamma/\alpha$  agonist having novel carbazol moieties with antidiabetic and hypolipidemic activity” : (2005-2008) (co-investigator). The total funding of the project is Rs. 17.5 lacks.

vi) D. **NIPER sponsored**

I) **Genotoxicity testing**

*In vivo* genotoxicity models, chromosomal aberrations and micronuclei testing in mouse were established and poly herbal formulations were screened for their inhibitory effects on cyclophosphamide induced genotoxicity in mice.

II) **Title: Role of angiotensin II in hypertension.**

Characterization of subtypes of angiotensin II (AT<sub>1</sub> and AT<sub>2</sub>) receptors in hypertension and to determine the role of AT (1-7) in blood pressure regulation.

• **Title: Mechanisms underlying the insulin Resistance and screening of NCE for their anti-diabetic activity.**

Development of animal models for the insulin resistance and investigating the mechanisms involved in insulin resistance and screening the NCEs for their anti-diabetic activity.

• **Title: 28 day sub-chronic toxicity of NCE.**

Carried out the sub-chronic toxicity studies of NCE as per the OECD guide lines.

vii) **Title: PG Diploma (post PG) in Translational Biomedical Research, UGC to be started from next financial year, 2012-2013**

## **OTHER ACTIVITIES**

- Instrumental in Initiation and Implementation of Institute's policies in Central Animal Facility, NIPER. Well acquainted with CPCSEA Rules and regulations.
- Instrumental in Initiation and Implementation of Institute's policies in NIPER Library.
- Implementation of Information Technology applications in NIPER. Establishing the Internet connectivity and e- mail facilities and coordinating them. Acquainted with WWW, HTML language and web page design.
- Responsibility delegated as Head, management for the implementation of OECD GLP Principles . National Toxicology Centre of NIPER is the first Government Institute declared as GLP certified laboratory.
- Instrumental in initiating the Department of Pharmacy Practice as per Institutes' policies

## **PATENTS: NINE**

1. Venkat Ratnam D, Chandaraiah G, Sonaji K, Viswanad B, Bharadwaj V, Ramarao P, Ravi Kumar MNV. Design of biodegradable nanoparticles containing ellagic acid and coenzyme Q10 and their evaluation in Streptozotocin induced diabetic rats: A potential treatment strategy for diabetes and its complications. **WTO Indian Patent No.1691/DEL/2006**
2. Ravi Kumar MNV, Kashyap N, Viswanad B, Bharadwaj V, Ramarao P, Neeraj Kumar. Design of glucose sensitive in-situ gelling system based on chitosan for pulsatile deliver of insulin, **WTO Indian Patent No. 36/DEL/2006**
3. Ravi Kumar MNV, Ankola DD, Viswanad B, Bhardwaj V, Ramarao P. Biodegradable nanoparticles for oral delivery of coenzyme Q10. **Indian Patent No. 18/DEL/2006**
4. Jain, R.; Jain, M.; Singh, P. P.; Singh, S.; Sachdeva, S.; Misra, V.; RamaRao, P.; Kaul, C. L. Ring-substituted 8-aminoquinoline analogues as antimalarial agents. **2003, Indian Patent No. 459/DEL/2003.**
5. Jain, R.; Jain, M.; Singh, P. P.; Singh, S.; Sachdeva, S.; Misra, V.; RamaRao, P.; Kaul, C. L. A process for preparation of ring-substituted 8-aminoquinoline analogues as antimalarial agents. **Indian Patent No. 473/DEL/2003.**
6. Ramachandran U., Kumar, R. Mittal, A., Ramarao, P. Srinivasan, K. T., Dey, C.S., Ishrath, A, Chawla, H.P.S., Kaul,C.L., Tricyclic compounds having antioxidant properties. **WTO Indian Patent No. 1268/DEL/2003.**
7. Jain, R.; Jain, M.; Singh, P. P.; Singh, S.; Sachdeva, S.; Misra, V.; RamaRao, P.; Kaul, C. L., Tikoo, K. A process for preparation of ring-substituted 8-aminoquinoline analogues as antimalrial agents. **2003. European Patent No. EP1606263.**
8. Jain, R.; Jain, M.; Singh, P. P.; Singh, S.; Sachdeva, S.; Misra, V.; RamaRao, P.; Kaul, C. L., Tikoo, K. A process for preparation of ring-substituted 8-aminoquinoline analogues as antimalrial agents. **2003. US Patent No. 6979740.**
9. Jachak S.M.; Ramachandran, U.; Mittal, A.; Srinivasan, K.; Ramarao, P.; Kaul, C.L. Naphthoquinone as antidiabetic agents. **2004. India WTO Patent No. 669/DEL/2004**

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**Referee:**

- 1) Prof. R. K. Kohli, Vice Chancellor, Central University of Punjab
- 2) Prof. Dr. Jai Rup Singh, EX-VC, Central University of Punjab, Mohali.

**Citation Index:**

**Citation indices As Per: Google Scholar**

<http://scholar.google.co.in/citations?user=QzCxL2MAAAJ&hl=en&oi=ao>

|                  | All  | Since 2010 |
|------------------|------|------------|
| <u>Citations</u> | 4667 | 2871       |
| <u>h-index</u>   | 36   | 25         |
| <u>i10-index</u> | 85   | 54         |

**149 papers cumulative citations is 4667 as on 4th July.2015**

**Average citations per paper is 28.37**

The following papers are having more than 100 citations

| <b>I. No.</b> | <b>Citation</b>  | <b>No. of Citations</b> |
|---------------|--|-------------------------|
| 1.            | K. Srinivasan, B. Viswanad, L., C.L. Kaul, and <b>P. Ramarao</b> (2005). Combinat of high-fat diet-fed and low-dose streptozotocin-treated rat: a model for type 2 diabetes and pharmacological screening. <i>Pharmacol Res.</i> , 52(4):313-20.                               | <b>684</b>              |
| 2.            | M. M. Lerch, A. K. Saluja, R. Dawra, <b>P. Ramarao</b> , M. Saluja and M.L. Steer (1992). Acute necrotizing pancreatitis in the opossum: earliest morphological changes involve acinar cells. <i>Gastroenterology.</i> ,103(1):205-13.   | <b>149</b>              |
| 3.            | R Panchagnula, PS Salve, NS Thomas, AK Jain, <b>P. Ramarao</b> (2001) Transdermal delivery of naloxone: effect of water, propylene glycol, ethanol and their binary combinations on permeation through rat skin. <i>International journal of Pharmaceutics</i> 219 (1), 95-105 | <b>110</b>              |
| 4.            | K. Srinivasan and <b>P. Ramarao</b> (2007) Animal models in type 2 diabetes research: an overview. <i>Indian J Med Res.</i> ,125(3):451-72. <b>(Review)</b>  | <b>434</b>              |
| 5.            | S.K. Sonkusare , C.L. Kaul and <b>P. Ramarao</b> (2005). Dementia of Alzheimer's disease and other neurodegenerative disorders--memantine, a new hope. <i>Pharmacol Res.</i> , 51(1):1-17. <b>(Review)</b>   | <b>276</b>              |