

CURRICULUM VITAE

Dr. GOVERDHAN PUCHCHAKAYALA

University of Houston, College of Pharmacy,
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PROFILE

International researcher with 14 years of experience in *in vitro* and *in vivo* renal pharmacology and hypertension research. Comprehensive knowledge in basic principles of preclinical drug development, derived from extensive graduate and undergraduate training in Pharmacology. Conducted multi-year research focused on **attenuation/prevention of obesity or chronic kidney disease, diabetes mellitus, Alzheimer's disease and hypertension in animal and human**. Research provided pivotal information in understanding the key roles of SGK1, metabolic syndrome or obesity and associated kidney damage as potential therapeutic targets for the treatment of chronic kidney diseases and hypertension. Key research expertise areas include: Animal models development and validation. Obesity, colon cancer, Alzheimer's, end stage kidney damage, diabetes and hypertension.

EDUCATION:

University College of Pharmaceutical Sciences Kakatiya University Warangal, India	2002	Bachelor of Pharmacy
University College of Pharmaceutical Sciences Andhra University Visakhapatnam, India	2002-2004	Master of Pharmacy (Pharmacology)
University College of Pharmaceutical Sciences. Kakatiya University Warangal, India	2004-2009	PhD in Pharmaceutical Sciences
University of Tuebingen Dept. of Physiology Tuebingen, Germany	2009-2010	Postdoctoral Training (Advisor: Dr. Florian Lang)
University of Houston Dept. of Pharmacology and Pharmaceutical Sciences Houston, USA	2018-tillnow	Postdoctoral Training (Advisor: Dr. Krishna M Boini)
Professional Licensure:		Pharmacist(India)

RESEARCH SUPPORT:

1. Received project grant from AICTE under MODROBS. Ref.No. 8024/RIFD/MOD-354(Pvt.)/Policy-III/2011-12
2. Received senior research fellow (SRF) award from ICMR. No.45/36/2005/BMS/TRM.

RESEARCH EXPERIENCE:

Aug 2003-April 2004

As a graduate student worked on research project entitled “Pharmacological evaluation of some Indian medicinal plants for antidiabetic activity in normal and Alloxan induced diabetic rats” as part of **M.Pharmacy thesis** at Pharmacology Division, University College of Pharmaceutical Sciences, Andhra University, Visakhapatnam, India.

April 2004 –April 2009

As a graduate student worked on research project entitled “**studies on some Indian medicinal plants for antidiabetic activity**” as part of **Ph.D thesis** at University College of Pharmaceutical Sciences. Kakatiya University Warangal, India.

June 2009–June 2010

Worked as a **Postdoctoral Research Scientist** on various projects involving **genetically modified mice**, studies on their renal functions, blood pressure and glucose metabolism. I also worked in the projects involving specific SGK1 inhibitors for reproductive system, hypertension, diabetes, colon cancer, cardiac and renal fibrosis in mouse models at Institute of Physiology, Tuebingen, Germany.

June 2010–Oct 2013

Worked as an associate **Professor and head department of Pharmacology** on various projects involving in **mice**, rat with, special emphasis on diabetes hypertension, Alzheimer and obesity.

Oct 2013–Oct 2018

Worked as an associate **Professor and head department of Pharmacology clinical pharmacology** on various projects involving pre-clinical and clinical studies in **mice**, rat with, special emphasis on the kidney related disorders, diabetes hypertension and obesity.

NOV 2018 – Present

Working as a **Postdoctoral Research Scientist** on various projects involving **genetically modified mice**, studies on their renal functions special emphasis on the kidney related disorders, hypertension and obesity with focus on the ceramide and acid sphingomyelinase signaling, inflammasomes pathway by using various novel techniques like Telemetry, *In vivo* Imaging, and Electron spin resonance, Confocal microscopy, Immunohistochemical and Immunofluorescence analysis and Molecular biology techniques (PCR, Elisa, western blot etc.) at department of Pharmacology and Pharmaceutical Sciences, Houston, TX, USA.

PROFESSIONAL SKILLS:

- Expertise in kidney related diseases models such as diabetic nephropathy, acute kidney failures

- Experience with *in vivo* surgery like nephrectomy and implantation techniques in mice and rats.
- Extensive experience in using invasive and non-invasive methods of Blood pressure measurements like Telemetry
- Small animal handling, surgery and development of animal models for various diseases.
- Experience in conducting *In vivo* Glucose uptake studies, Glucose, insulin tolerance tests and Renal clearance studies
- Hands on Experience in *In vivo* molecular imaging, immune histochemistry, immune fluorescent and confocal microscopy
- Evaluation of anti inflammatory agents, anti diabetics, anti hypertensive and anti ulcer drugs
- Hands on experience in the generation of double knockout mice
- Biochemical assays: Elisa, Microplate reader, UV spectrophotometer, HPLC, flame photometer, Radioimmuno assays and biochemical analysis of blood and urine
- Experience in molecular biology techniques like Western blot analysis, PCR, Cell culture and Immunofluorescence.
- Insulin signaling (insulin receptors and IRS-1)
- Extensive experience with pharmacological experimental designs and application of suitable statistical methods Computer aided Analysis and interpretation of data

RESEARCH INTERESTS:

Development of acid sphingomyelinase inhibitors for chronic kidney diseases and hypertension: Obesity has become a major global health concern, and its incidence has increased sharply in recent years. Obesity is a strong and independent risk factor for cardiovascular disease that causes mortality and for the development of microalbuminuria and end-stage renal disease. Development of acid sphingomyelinase inhibitors for the treatment of obesity and associated kidney damage and hypertension. Also development of ASMase inhibitors for hyperhomocysteinemia induced chronic kidney diseases.

Identification of early markers for obesity and hyperhomocysteinemia induced kidney diseases: The mechanisms of obesity induced kidney diseases especially the early changes that occur prior to development of diabetes are still poorly understood. Thus elucidation of molecular mechanisms related to obesity induced renal disease and novel therapeutic approaches for treatment of renal diseases are urgently required. The development of strategies that target the activation of podocyte NALP3 inflammasomes may be a promising therapeutic intervention to prevent hHcys and obesity-associated kidney damage.

COMPUTATIONAL SKILLS:

Good working knowledge in scientific, statistical and reference management software like Sigma stat 2.0, Graph pad prism 7.0, Endnote plus 3.0 and Reference Manager 10, Canvas X, Microsoft office tools, Windows and Macintosh based operating systems.

PROFESSIONAL TRAINING:

Industrial training in Costal Pharmaceuticals, Kakinada, India.
Clinical pharmacist training in MGM hospital, Warangal, A.P., India.

AWARDS / HONORS:

Professional Contribution:

1. Managing editor for **Clinical Magazine. 2014 to 2018**
 2. Honoured with the appointment as '**Editorial Board Member**' of Austin Journal of Endocrinology and Diabetes march 2014 to till now.
 3. **Reviewer for Journal of pharmacy and chemistry.**
 4. **Reviewer for International Journal of Pharmacy and Pharmaceutical Sciences.**
 5. Received senior research fellow (SRF) award from ICMR. No.45/36/2005/BMS/TRM.
1. Received project grant from AICTE under MODROBS. Ref.No. 8024/RIFD/MOD-354(Pvt.)/Policy-III/2011-12
 2. Treasurer of The Crystal Research Society (CRS)

RESEARCH AREA:Diabetes mellitus, colon cancer, reproductive biology and Alzheimers disease), Pharmacokinetic & Pharmacodynamic interactions and toxicology

Work experience in years

Teaching

UG level : 10 Years

PG level : 08Years

Research Guidance Number

M. Pharm Projects Guided : 41

Pharm D Project Guided : 14

Ph. D Project Guided : 04(working)

RESEARCH PUBLICATIONS:

Full Research Papers : 62

Research Citations : 550

Institute First Auther(University of Houston):

1. MadhuriSalker, Mark Christian, Jennifer Steel,StuartLavery, Geoffrey Trew, Jaya Nautiyal, Zoe Webster, Marwa Al-Sabbagh, Raj Rai, **Goverdhan Puchchakayala**, **Michael Föller**, Christian Landles, Siobhan Quenby, Lesley Regan,**Florian Lang** and Jan Brosens. Deregulation of the serum- and glucocorticoid-inducible kinase SGK1 in the endometrium causes reproductive failure. *Nature medicine*(2011), 17,1509–1513.<http://www.nature.com/nm/journal/v17/n11/full/nm.2498.html>, Impact Factor: 29.886

2. NarendarDudhipala & Goverdhan Puchchakayala.Capecitabine lipid nanoparticles for anti-colon cancer activity in 1, 2-dimethylhydrazine induced colon cancer: Preparation, cytotoxic, pharmacokinetic and pathological evaluation. Drug Development and Industrial Pharmacy,DOI: [10.1080/03639045.2018.1445264](https://doi.org/10.1080/03639045.2018.1445264). Impact Factor 2.295. Print ISSN: 0363-9045 Online ISSN: 1520-5762

First Author or Corresponding Author Publications:

1. **Goverdhan Puchchakayala**, LaxmiPodili, Diwakar Bobbala, K Thirupathi, Krishna M Boini, Narasimha Reddy Yellu, Ravi Kumar Bobbala, Krishna Mohan Gottemukkala, RajeshwaraRaoPragada. Antinociceptive and anti-inflammatory effects of *Cleome chelidonna*Linn. roots in experimental animals. *Ph.cog.Mag.* Vol. 13 (1) (2008).
2. **P. Goverdhan** and E. N. Murthy. Antidiabetic effect of *Cleome aspera* in type 2 diabetic rats. *Journal of Pharmacy Research*, 2009, 2(6),1072-1074.
3. **GoverdhanP.**, Sandhya RaniM., ThirupathiK., Swaroopa RaniV., SatheshS., KrishnaD. R., Ravi Kumar B.and Krishna MohanG. Hypoglycemic and Antihyperglycemic effect of *Aristolochia indica* in normal and alloxan induced diabetic rats. *Pharmacologyonline*3: 461-469 (2008).
4. **P.Goverdhan** and Diwakar Bobbala. Antinociceptive and anti-inflammatory effects of *Vitex trifolia* leaves in experimental animals. *Ethnobotanical leaflet*. Vol. 13 (2009).
5. RamuluJadhav and **Goverdhan Puchchakayala**. Hypoglycemic and Antidiabetic Activity of Flavonoids: Boswellic Acid, Ellagic Acid, Quercetin, Rutin on Streptozotocin-Nicotinamide Induced Type 2 Diabetic Rats. *Int J Pharm PharmSci, Vol 4, Issue 2, 251-256*. Impact (Cites per doc)- 0.51
6. PurnaChander Are, Raghuramreddy and **Goverdhan Puchchakayala**. Hypoglycemic and antidiabetic activity of glichidionvelutinum on streptozotocin-nicotinamide induced type 2 diabetic rats. *European Journal of Biological Sciences* 3 (4): 126-130, 2011.
7. **P. Govardhan**, JagdeeshBandari, Suresh Bandari, K. Praveen Kumar, toxicological evaluation of ethanolic extract of *Geniostoma rupestres*.l. forst. *International Journal of Pharmacy, 1(1), 2011, 32-36*.
8. **P. Govardhan**, Jagdeesh Bandari, Suresh Bandari, K. Praveen Kumar. *In vitro* evaluation of effect of *cassythafiliformis*l. Extracts on brain neurotransmitters in albino rats. *Journal of Science / Vol 1 / Issue 1 / 2011 / 21-25*.
9. **P. Govardhan**, JagdeeshBandari, Suresh Bandari, K. Praveen Kumar, Anti-seizure activity of methanolic extracts of *rorippas armentosa*(dc.) Macbr. *International Journal of Pharmacology & Toxicology / 1(1), 2011, 11-15*.
10. **Puchchakayala Goverdhan**, Akina Sravanthi, and ThatiMamatha. Neuroprotective Effects of Meloxicam and Selegiline in Scopolamine-Induced Cognitive Impairment and Oxidative Stress. *International Journal of Alzheimer's Disease*, (2012) Volume 2012, 974013, 8.

11. Rajeev Reddy E, Jeevan N, Nagaraju R, Venkateshwarlu E, Achyut Bharadwaj S, **Goverdhan P.** Development and Validation of RP-HPLC Method For Protease Inhibitor – Ritonavir, *Journal of Chemical and Pharmaceutical sciences* Volume 4 Issue 3, 111-113.
12. Sravanthi Akina, Mamatha Thati and **Goverdhan Puchchakayala**, Neuroprotective Effect of Ceftriaxone and Selegiline on Scopolamine Induced Cognitive Impairment in Mice, *Advances in Biological Research* 7 (6): 266-275, 2013.
13. Kalyani Pitta, Ajith Booshi, Sravanthi Akina, **Goverdhan Puchchakayala** Neuroprotective Effect of Pyritinol and Fluvastatin in Cerebral Ischemic Reperfusion Injury and Memory Dysfunction. *Advances in Biological Research* 8 (2): 68-78, 2014.
14. Rohith N Thota, Dilip Paruchuru, Ravindar Naik R, Anantha S Metlakunta, Benarjee G, **Goverdhan Puchchakayala.** Effect of polyherbal formulation on metabolic derangements in experimental model of high fructose diet induced metabolic syndrome. *International Journal of Applied Biology and Pharmaceutical Technology.* 2014; 5(3): 247-55.
15. 21st CENTURY THERAPEUTIC CHALLENGE. *Int. J. Ayur. Pharma Research,* 2015;3(2):1-10
16. Reddy, K. Ranga; Reddy, D. Narendar; Botla, Shirisha; Reddy, **P. Goverdhan.** Development, Characterization and *In Vivo* Performance of Saquinavir Loaded Lipid Microspheres, *Advanced Science, Engineering and Medicine (American Scientific Publishers),* Volume 7, Number 11, November 2015, pp. 944-951(8)
17. **Goverdhan Reddy Puchchakayala,** Kumara Swamy Damerakonda, Renuka. B. Evaluation of anti-arthritis activity of aqueous extract of leaves of chloroxylon swetenia in adjuvant induced arthritis in rats. *Int. J. of res. In Pharmacology and Therapeutics.* 2015; 4(3):320-328.
18. **Goverdhan Puchchakayala,** Shrvanthi Manthri, Naresh Rayarakula. Assessment of metabolic syndrome in patients with hypovitaminosis D, *International Journal of Pharmaceutical Letters and Reviews* (2015), 1(1), 14-17.
19. Hemanth Kumar Namburi, Charitha Kaithala, Sampath Raj Peraboina, Juweriya, Nagaraju Morem, **Goverdhan Puchchakayala.** **A cross sectional assessment of knowledge on hepatitis B among pharmacy students in warangal, india,** *Indo American Journal of Pharmaceutical Research.* 2015:5(09).
20. Ashok Reddy Rapaka, Srividya Veeramalla, Mounika Gollamandala, Ravindhar Nayakmaloth, Samuel Prabhuthra, Nagesh Adla, Amulya Gade, Sharvanabhava Bandaru and **Goverdhan Puchchakayala,** A Prospective Observational Study of Microbiological Analysis and Antibiotic Sensitivity Patterns in Diabetic Foot Ulcer Patients. *Advances in Biological Research* 10 (4): 248-256, 2016. (pubmed cited)
21. Priya Darshini Adavala, Yeswanth Reddy Musukula, **Goverdhan Puchchakayala.** Neuroprotective Effect of Aegle Marmelos Leaf Extract in Scopolamine Induced Cognitive Impairment and Oxidative Stress in Mice, *Advances in biological research* Volume 10 Number 2, 2016. (pubmed cited)
22. Charitha Kaithala, Hemanth Kumar Namburi, Siva Subrahmanyam Bandaru, Sharvana Bhava Sheshagiri Bandaru, Nagesh Adla, **Goverdhan Puchchakayala.** Prevalence of

- dyslipidemia and its association with glycemic control in indian type 2 diabetes population. *Romanian Journal of Diabetes Nutrition and Metabolic Diseases*, Volume 23, Issue 3 (Sep 2016), 227-83. (The Journal of Romanian Society of Diabetes Nutrition and Metabolic Diseases.).
23. Dileep Reddy Gottimukkula, Rakesh Chakinala, Surender Kagitapu, **Goverdhan Puchchakayala**, Nagesh Adla¹, Sudhakar Ajmeera² and Balram. CASE REPORT ON COLLODION BABY. *European Journal of Biomedical AND Pharmaceutical sciences* Volume: 3, Issue: 9, 364-366, 2016.
 24. Dileepreddy Gottimuukula, Rakesh Chakinala, SurenderKagithapu, YogiMorishetty, **Goverdhan Puchchakayala**. Case Report on Epidermolysis Bullosa- A RARE DISORDER. *Journal of Advancesin Natural Sciences*, Vol 3: Num 3, Nov 2016, 298-300.
 25. Dileep Reddy Gottimukkula, Rakesh Kumar Chakinala, Sudhakar Kagithapu, Yogi Morishetty and **Goverdhan Puchchakayala**. Down's Syndrome - Case Series. *SM J Case Rep*. 2017; 3(1): 1037.
 26. Dileep Reddy Gottimukkula, Navya Sri Devulapelly, Rakesh Chakinala, Surender Kagitapu, Yogi Morishetty, Nagesh Adla, **Goverdhan Puchchakayala**. Congenital rubella syndrome—Case report. *Recent Adv Biol Med*. 2016; 2:128-130.
 27. Dileep Reddy Gottimukkula, Navya Sri Devulapelly, Rakesh Chakinala, Surender Kagitapu, Yogi Morishetty, Nagesh Adla, **Goverdhan Puchchakayala**. (2017) A Rare Congenital Silver Russell Syndrome- Case Report. *J Anal Pharm Res* 5(2): 00135. DOI: 10.15406/japlr.2017.05.00135.
 28. Navyasri Devulapelly, Poornima Anumala, Dileep Reddy Gottimukkula, Rakesh kumarChakinala, Nagesh Adla, Yogi Morishetty, Surender Kagithapu, Goverdhan Puchchakayala. Encephalocele- Case Report. *Journal of Medical and Health Research* 2016.
 29. AdepuAnusha, DudhipalaNarendar, Boini Krishna Murthy, **PuchchakayalaGoverdhan**. Influence of Single and Multi Dose Treatment of Glipizide on Pharmacokinetics and Pharmacodynamics of Irbesartan in Normal and Hypertensive Rats. *High Blood Press CardiovascPrev*. 2017 Jun;24(2): 179-185.
doi:10.1007/s40292-017-0195-2. (IMPACTFACTOR 1.36.) Springer Publication.
 30. Dileep Paruchuru and Goverdhan Puchchakayala Melioration of Fertility in High Fat Diet Induced Obese Male Wistar Rats using Polyherbal Formulation. *Glob J Pharmaceu Sci*. 2017; 3(3): 555615.
 31. Vishwanath Reddy Ganpala, Sampath Raj Peraboina, Sudhakar Agmira, Nageshadla, Sirisha kallem, **Goverdhan Puchchakayala**. Evaluation of sodium valproate levels in malnourished childhood epilepsy and its consequences. *R Journal of NEUROLOGY* Volume XVI, No. 2, 2017.
 32. BindhuTene, Jagadeeshwar.K, **Goverdhan Puchchakayala**. Pharmacological evaluation of *Sesbania grandiflora* for anticolon cancer activity in 1, 2 dimethylhydrazine induced colon cancer. *J. Global Trends Pharm Sci*, 2017; 8(1): 3727 – 3741.
 33. GIRIJA PASHIKANTI, MAKULA AJITHA, **GOVERDHAN PUCHCHAKAYALA**. NEUROPROTECTIVE EFFECT OF CITRULLUS LANATUS SEED EXTRACTS ON CEREBRAL ISCHEMIC REPERFUSION INJURY INDUCED COGNITIVE

- IMPAIRMENT AND OXIDATIVE STRESS. *Int J Pharm Pharm Sci*, Vol 11, Issue 6, 38-44.
34. GirijaPashikanti 1, MakulaAjitha 2, Goverdhan Puchchakayala. STUDY TO FIND THE BEST EXTRACTION SOLVENT FOR USE WITH CUCUMBER PEEL (CUCUMIS SATIVUS) FOR HIGH NEUROPROTECTIVE ACTIVITY IN COGNITIVE IMPAIRED RATS. *J Sci Res Pharm*, 2019;8(4):34-41.
 35. Nithisha Reddy Katkuri1 , Laxmi Sankalpa Bhaganagarapu1 , Mamatha Reddy Chandupatla , Goverdhan Puchchakayala. A STUDY ON EFFECTS OF IVABRADINE IN ST-ELEVATED MYOCARDIAL INFARCTION AFTER INTRAVENOUS THROMBOLYTIC THERAPY. *Int. Res. J. Pharm.* 2019, 10 (3)
 36. GIRIJA PASHIKANTI, MAKULA AJITHA, **GOVERDHAN PUCHCHAKAYALA**. NEUROPROTECTIVE EFFECT OF VARIOUS PHYTOCHEMICALS AND ITS POTENTIAL APPLICATION OF THREE MEDICINAL PLANTS IN NEURODEGENERATIVE DISEASES. *J Pharm Res* 2019;8(5):373-378.

Second Author Publications:

1. Bharath Reddy, **Goverdhan P**, JagadeeshwarK Antidiabetic Activity of Ethanolic extract of *PremnaTomentosa*Root in Rat Model. *Jour. of Sci. Res. in Phar.* 2012, 1(1), 23-28.
2. VasuKandati, **P Govardhan**, Ch Siva Reddy, A RavinderNath, R R Reddy *In-vitro* and *in-vivo* anti-inflammatory activity of *Andrographisserpyllifolia* (Rottl. Ex Vahl.) Wt. *International Current Pharmaceutical Journal* 2012, 1(8): 199-204.
3. VasuKandati, **GovardhanP**, Siva ReddyCh, RavinderNath Aand ReddyR. R. *In-vitro* and *in-vivo* anti-inflammatory activity of *Syzygiumalternifolium*(wt) Walp. *Journal of Medicinal Plants Research* Vol. 6(36), pp. 4995-5001.
4. KalamSirisha, **Puchchakayala Goverdhan**, GuggulothuHimabindu, MeesaMadhaviComparative Evaluation of Antioxidant and Hepatoprotective Activities of SomeNewPolyherbal Formulations. *Int. J. Pharm. Phytopharmacol. Res.* 2013; 3 (3): 190-195[Impact Factor – 0.7826]
5. Raghuram Reddy A, **Goverdhan P**, RamyaCh, DheerajGopu, Evaluation of anti-diabetic activity of ethanolic extract of argemonemexicana in streptozotocin-nicotinamide induced type-ii diabetes mellitus.*International Journal of Advances in Pharmaceutical Research*, May 2014;Vol. 5 (5) 283 – 289. **Impact :0.51**

Other Publications

6. Daniela S. Kempe, MiribaneDermaku-Sopjani, Henning Fröhlich, Mentor Sopjani, AnjaUmbach, **Goverdhan Puchchakayala**, Ana Capasso, Florian Weiss, Michael Stübs,

- Michael Föller and Florian Lang. Rapamycin-induced phosphaturia. *Nephrol Dial Transplant* 25: 2938–2944 (2010) 1 of 7, doi: 10.1093/ndt/gfq172. Impact factor: **4.470**
7. AnandRotte, MadhuriBhandaru, Daniela S. Kempe, **Goverdhan Puchchakayala**, David Pearce, Morris J. Birnbaum and Florian Lang. Regulation of gastric acid secretion by PKB/Akt2. *Cellular Physiology & Biochemistry*.(2011), 25:695-704. **Impact Factor:** 4.652
 8. Nasir Omaima, EbrahimAmmar, **Goverdhan Puchchakayala**, UmbachAnja, Artunc, Ferruh, Daniela S. Kempe, Bhandaru, Madhuri, Amal Saeed, Kambal Osman, Florian Lang. Effects of Gum Arabic (*Acacia senegal*) on Renal Function in Diabetic Mice. **Kidney and blood pressure research**. Vol. 35, No. 5, 2012. **Impact Factor:** 2.123
 9. Muttineni Radha Krishna, Mahender Aileni, **P.Goverdhan**. Mysterious viral deaths among tribals in northern Telangana forest region of Andhra Pradesh. *CURRENT SCIENCE*, VOL. 96, NO. 8, 2009. **Impact factor:** 0.756
 10. Thirupathi, Kaluvala; Sathesh Kumar, S; **Goverdhan, P**; Ravikumar, B; Rama Krishna, D and Krishna Mohan, G. Protective Effect of *Momordica Dioica* against Hepatic Damage Caused By Carbon Tetrachloride in Rats. *Acta Pharmaceutica Scientia* 48, 213-222, 2006.
 11. Thirupathi, K; Sathesh Kumar, S; **Goverdhan, P**; Ravikumar, B; Rama Krishna, D and Krishna Mohan, G. Hepatoprotective action of *Cordia dichotoma* against Carbon Tetrachloride induced liver injury in rats. *Nigerian Journal of Natural products and Medicine* 11, 37-40 (2007).
 12. Venkateshwarlu E, Raghuram Reddy A, **P Goverdhan**, Swapna Rani K, Jayapal Reddy G. *In Vitro* and *In Vivo* Antioxidant activity of Methanolic Extract of *Solenan amplexicaulis* (Whole Plant). *International Journal of Pharmacy and Biological Sciences* (2011). 1 (4) 522-533.
 13. Srinivas N, Narsimha Reddy Y, **Goverdhan P**, Venkateshwarlu K. Development and validation of HPLC method for determination of Embelin in rat plasma and its application to pharmacokinetic study. *Journal of Pharmacy Research* (2011), [4\(10\)](#), 3660-63.
 14. Jacob Shiny, Thadkapally Ramchander, **Puchchakayala Goverdhan**, Mohammad Habibuddin, Jithan Venkata Aukunuru. Development and evaluation of a novel biodegradable sustained release microsphere formulation of paclitaxel intended to treat breast cancer. *Int J Pharma Invest*, 2013; 3: 119-25.
 15. Rama Krishna V, Prashanth S, **Goverdhan P**, Vidya Sagar J. Pharmacokinetic and pharmacodynamic drug interactions of eprosartan and glibenclamide in healthy albino wistar rats. *International Journal of Pharmaceutical Sciences Review and Research* Volume 12, Issue 1, January – February 2012; Article-016

16. Gangula Mohan Rao, BaruVijaya Kumar, P. Naresh, KondaSravya, **Puchchakayala Goverdhan**, VandanaRathore, GirdharSinghDeora and SeelamVenkataReddy. *Med.Chem. Commun.*,[Issue5](#),2014,[DOI:10.1039/C3MD00377A](#). Impact Factor 2.72.
17. Raghuram Reddy Adidala, Mounika Arrabelli, Jayanth Regula, **Goverdhan Puchchakayala**, Srinivasa Reddy Karka. Pharmacokinetic and pharmacodynamic drug interaction of simvastain with trigonelline. *Asian Journal of Pharmaceutical Analysis and Medicinal Chemistry*. 2014,2(3), 106 - 118.
18. Nimmakayala Sridhar, Suguna Lakshmi Duggirala and **Goverdhan Puchchakayala**. Antimicrobial activity of ethanolic extracts of *Justicianeesii*. *Bangladesh J Pharmacol* 2014; 9: 624-27.
19. *Nimmakayala Sridhar, Suguna Lakshmi Duggirala, Goverdhan Puchchakayala*. Analyzing the phytochemical composition of *Justicianeesii* (Ramam). *The Journal of Phytopharmacology* 2014; 3(5): 348-352.
20. Nimmakayala Sridhar, DuggiralaSuguna Lakshmi, **Puchchakayala Goverdhan**. Effect of ethanolic extracts of *Justicianeesii*Ramam. against experimental models of pain and pyrexia. *Indian J Pharmacol* 2015;47:177-80.
21. Nimmakayala Sridhar, Suguna Lakshmi Duggirala and **Goverdhan Puchchakayala**. Evaluation of Antioxidant and Anti-Inflammatory Activities of *Justicianeesii*Ramam Whole Plant Extract. *Journal of Pharmaceutical Technology, Research and Management*. 2014; 2(2): 171–187.
22. RohithNagendraThota, **Goverdhan Puchchakayala**, Sathya N. Dornala. DIABESITY –
23. ShrvanthiManthri, DussaVeena, Ramesh babuAmbari, **Goverdhan Puchchakayala**. A Prospective Interventional Study on Clinical Effects of Cilnidipine in Hypertensive Patients. *International Journal of PharmTech Research CODEN (USA): IJPRIF, ISSN: 0974-4304 Vol.8, No.10, pp 70-76*.
24. AmulyaYalagandula, Ramya Krishna Alabotharam, SurenderKagithapu, NageshAdla, SudhakarAjmeera, **Goverdhan Puchchakayala**, B. S.SharavanaBhava, Balram. B, Amulya Reddy Gade. Prevalence Of Types Of Anemia In Pediatric Population – An Observational Study, *Volume 11, Issue 2 Ver. II (Mar.- Apr.2016), PP 04-07*.
25. DivyaJyothiMadipally, NageshAdla, **GoverdhanPuchchakayala**. Epidemiology and Vaticination of Breast Cancer in Young Women. *Ijsrm.Human, 2015; Vol. 1 (4): 8-21*.
26. Eedula Rajeev Reddy, SiddoAchyutBharadwaj, KarukaSrinivas Reddy, SrirangamPrashanth, Jenugu Vincent VidyaSagar, **Puchchakayala Goverdhan**, *Possible Influences of Standardized Herbal Extract of Ashwagandha on the Pharmacokinetics and Toxicity of Ritonavir in Rats*, *American journal of ethnomedicine*, Vol 2, No 3 (2015).
27. Chiranjeevi Jannu, S Prathap, **Goverdhan Puchchakayala**,Vahini Ch, K Balaraju. Efficacy of Stability Trainer Exercises versus Wobble Board Exercises in Balance Re-Education in Patients with Diabetic Neuropathy. *Indian Journal of Physiotherapy and Occupational Therapy*, 201711(3), 12-16.

28. Akram Ahmad, Muhammad Umair Khan, Shazia Qasim Jamshed, Bandari Deepak Kumar, Gogikar Sudhir Kumar, Puchchakayala Goverdhan Reddy, Sudhakar Ajmera. **Are healthcare workers ready for Ebola? An assessment of their knowledge and attitude in a referral hospital in South India.** *J Infect Dev Ctries* 2016; 10(7):747-754.
29. Alapati Yedukondala Rao, Gouthami, Ayesha, Nagesh Adla, **Goverdhan Puchchakayala. Therapeutic Drug Monitoring of 5-Fluorouracil In Tertiary Care Teaching Hospital.** *Journal of Dental and Medical Sciences, Volume 15, Issue 6 Ver. XIV (June 2016), PP 134-137.*
30. Alapati Yedukondala Rao, Naresh Yadav Rasala, Raj Kumar Mandarapu, Bavith Pakeerupalli, **Goverdhan Puchchakayala. Adverse Effects of Anticancer Drugs in A Tertiary Care Hospital in South India.** *Journal of Dental and Medical Sciences, Volume 15, Issue 6 Ver. XIV (June 2016), PP 129-133.*
31. Vanjari Nikhil Kumar, Sandeep Reddy Konyala, Siva Subrahmanyam Bandarul , Goverdhan Puchchakayala. Comparison of Efficacy of Add-on Therapy of Teneligliptin Versus Pioglitazone among Type 2 Diabetes Mellitus Patients Ineptly Controlled on Dual Therapy of Metformin Plus Sulfonylurea. *Journal of Diabetology* | Volume 10 | Issue 2 | May-August 2019, 76-82.
32. Nagesh Adla, Amulya Gade, **Goverdhan Puchchakayala¹, Shravana Bhava¹, Surendar Kagitapu², Sowjanya Madanu¹, Alekhya Nune** Assessment of Health Related Quality of Life in Children with Epilepsy Using Quality of Life in Childhood Epilepsy Questionnaire (Qolce-55) in Tertiary Care Hospital.
33. Chiranjeevi Jannu ,Vahini devi , Prathap Suganthirababu , Goverdhan Puchchakayala. EFFECT OF THERAPEUTIC LASER IN THE MANAGEMENT OF DIABETIC NEUROPATHY PAIN. *Ethiop. J. Health Dev.* 2019; 33(2)..
34. Chiranjeevi Jannu, Goverdhan Puchchakayala, Pratap Suganthira Babu, Vahini Devi Chandupatla. **Comparison of Efficiency of Electromyography and Nerve Conduction Velocity Studies in Diagnosis of Diabetic Neuropathy.** *International Journal of Innovative Science and Research Technology, Volume 3, Issue 3, March– 2018*

Training Programmes Attended:

- Two week QIP Staff Development program in UCPSc, Kakatiya University. From 30-01-2012 to 10-02-2012. sponsored By AICTE
- Two week QIP Staff Development program in UCPSc, Kakatiya University. From 02-08-2014 to 10-02-2014. Sponsored By AICTE
- Three week Refresher course on Academy-Industry interface transforming research thoughts into practice 09-06-2014 to 28-06-2014. UGC, Academic Staff college, JNTUH, Hyderabad.

Invited lecturer in conference:

- Pharmacovigilance- an overview presented in Readdressing research in pharmaceutical sciences: A Global perspective (National Seminar) 1st to 3rd March, 2012.
- “Screening Models for Diabetes Mellitus” in emerging trends in pharmaceutical education, research and development (National). At Mallareddy Group of Institutions on 23rd Sep 2013.
- “Gum Arabic for renal impairment” in QIP Staff Development program in UCPSc, Kakatiya University. From 30-01-2012. sponsored By AICTE
- “Role of the Pharmacist in health care system” in one day symposium held in Jayamukhi pharmacy college, Narsampet, Warangal, T.S. on 22nd Nov 2014.

- “Advances in treatment of AIDS” in and re-emerging Viral outbreaks in India-Clinical challenges and Management” on 20-22 January, 2015 at CSIR-IICT-CCMB Auditorium, Tarnaka, Hyderabad, Telangana State

Seminars organized:

Organized one day “National Seminar on “ **Pharmacovigilance**” on 4th March 2014 at Vaagdevicollege of Pharmacy, Hanamkonda, Telangana State.

Organized as a Convener in three day “National conference on emerging and re-emerging Viral outbreaks in India-Clinical challenges and Management” on 20-22 January, 2015 at CSIR-IICT-CCMB Auditorium, Tarnaka, Hyderabad, Telangana State.

Organized one day “National Seminar on “ **Role of Clinical Pharmacists in health care system**” on 12th April 2017 at Vaagdevicollege of Pharmacy, Hanamkonda, Telangana State

Chairperson/ Poster evaluator

Act as a Chairperson in one day national seminar organized by TallaPadmavathi college of Pharmacy and TallaPadmavathi Pharmacy College on 13th Dec-2013

Act as a **Poster** evaluator in one day national conference organized by ACPI on 1-2 Aug-2015, Hyderabad, Telangana State.

Act as a Poster evaluator in 66th Indian pharmaceutical congress, on 23-25 January, 2015, Hyderabad, Telangana State.

Act as a Poster evaluator in AICTE SPONSORED Three day national conference organized by Vaageswari College of Pharmacy on 6-8 April-2015, Hyderabad, Telangana State .

Act as a Chairperson in one day seminar organized by Vaagdevi college of on 13th Dec-2013.

Patents

1. Patent filed on “Methanolic extract and defferent fractions of *Mutingiacalabuara* for diabetes mellitus in diabetic rats. **Application No. 2309/CHE/2014A**, Published on 8th January 2016.
2. Patent filed on “Methanolic extract and defferent fractions of *Cipadessabaccifera* for diabetes mellitus in diabetic rats. **Application No. 2340/CHE/2014A**, Published on 8th January 2016.
3. Patent filed on “Methanolic extract and defferent fractions of *Bryonopsisilaciniosa* for diabetes mellitus in diabetic rats. **Application No 2341/CHE/2014A**, Published on 8th January 2016.

Memorandum of Understanding

The memorandum of understanding is made and entered on the day of 09th May, 2013 with National Centre for Laboratory Animal Sciences (NCLAS), NIN, Hyderabad, TS.

RESEARCH WORK CITED BY OTHER EXPERTS

Citations Based on the Database, Research Gate=407

https://www.researchgate.net/profile/Goverdhan_Puchchakayala

Citations Based On the Database, google citation

<https://scholar.google.co.in/citations?user=gwd3gd4AAAAJ&hl=en>



RESEARCH ABSTRACTS PRESENTED IN CONFERENCES: 43

1. "Hypoglycemic and Antihyperglycemic effect of *Gynandropsisgynandra*(Linn.) root in normal and alloxan induced diabetic rats. **Goverdhan P.**, Rajeswara Rao P, Krishna Mohan G, Krishna M. B, Poster Presented at 57th Indian Pharmaceutical Congress, Hyderabad, India
2. Alternative therapy for type-2 diabetes mellitus .**P.Goverdhan**, M.W. Carey and G. Krishna Mohan. Poster Presented at 7th Indian Pharmaceutical Association, Coambatore , India
3. Diabetes and its complications –Therapy Ratna Sushmitha, **P.Goverdhan** and G. Krishna Mohan, Poster Presented at 1st Women pharmacist convention at Vanitha College of Pharmacy, Hyderabad.
4. Hypoglycemic and Antihyperglycemic activity of *Beuteamonosperma* **P.Govardhan**, M. Ratna Sushmitha, B. Ravi Kumar, K. thirupathi, D.R. Krishna and G. Krishna Mohan, *BMC Complementary and Alternative Medicine (communicated)*. (2006)
5. A Survey On The Diabetic Patients And The Dietary Management William Carey. M, **Goverdhan.P**, Raghuram Reddy. A, S. Sathesh Kumar, Krishna Murthy B, Krishna Mohan. G, Presented a poster at Chennai on 4th November 2006 in Indian Pharmacy Graduates Association.
6. Large-conductance, calcium-activated potassium channels: Structural and functional Implications. **Goverdhan Puchchakayala**, Saisudha Koka, Srinivas Ghatta, Deepthi Nimmagadda, Ramesh Alluri, Eshwar K. Kilari and Krishna M. Boini. Presented a poster at Bhimavaram In National

Conference on Current Strategies in Pharmaceutical Education and Research on 24th & 25th February 2006 Breast Cancer-An overview on its current perspectives and treatment options.

7. Saisudha Koka, **Goverdhan Puchakayala**, Annapurna A, Ramesh Alluri, Eshwar K. Kilari and Krishna M. Boini. Oral Presented at Bhimavaram In National Conference on Current Strategies in Pharmaceutical Education and Research on 24th & 25th February 2006
8. Anti-inflammatory and Anti-nociceptive Activity effects of extract of *Vitex trifolia* Linn leaves in experimental animals. Diwakar Bobbala, G. Srilakshmi, Asha Samuel, Dr. AK Dey, **P. Goverdhan** poster Presented at 57th Indian Pharmaceutical Congress, Mumbai, India
9. Antinociceptive and anti-inflammatory effects of the stem bark of *Butea monosperma* in experimental animals. William Carey M, **Goverdhan P**, Krishna Mohan G poster Presented at J.S.S. College of Pharmacy, Ooty, India.
11. "Importance of computer aided drug design" Rajeev reddy. E, Achyutbharadwaj, Venkateshwarlu. E, **Goverdhan. P**, Poster presented at Vaagdevi college of pharmacy, Hanamkonda, India on "National symposium on insights into medicinal chemistry" on 21-23, 2010.
12. "Importance and need for the investigation of herb-drug interaction" **Goverdhan Puchchakayala**, Bhardwaj SA, Srinivas N, Ramulu J, Naga R, Rajeev reddy. E Poster presented at Lalitha College of Pharmacy, Hyderabad, India on International conference on "Imbibing pharmaceutical knowledge to The professionals" on 28th-31st, January, 2011.
13. "Importance of flavonoids in clinical management of diabetes" **Goverdhan. P**, Srinivas. N, Bharadwaj. S, Rajeev. E, Nagaraju. R, Ramulu. J, Poster presented at Lalitha College of Pharmacy, Hyderabad, India on International conference on "Imbibing pharmaceutical knowledge to the professionals" on 28th-31st, January, 2011.
14. "Diabetic nephropathy- pathogenesis and newer targets in treatment" **Goverdhan Puchchakayala**, Jayanth Regula, Poster presented at Lalitha College of Pharmacy, Hyderabad, India on International conference on "Imbibing pharmaceutical knowledge to the professionals" on 28th-31st, January, 2011.
15. "Diabetic neuropathy-pathogenesis and newer targets in treatment" **Goverdhan Puchchakayala**, Ajith Reddy Booshi, Poster presented at Lalitha College of Pharmacy, Hyderabad, India on International conference on "Imbibing pharmaceutical knowledge to the professionals" on 28th-31st, January, 2011.
16. "Hypertension of renal origin" **Goverdhan Puchchakayala**, Priyanka Vemu, Sindu Thumma, Poster presented at Lalitha College of Pharmacy, Hyderabad, India on International conference on "Imbibing pharmaceutical knowledge to the professionals" on 28th-31st, January, 2011.
17. "Pathophysiology, advanced screening techniques and pharmacotherapy of diabetic retinopathy" **Goverdhan Puchchakayala**, Shoeib Afroz Mohd, Poster presented at Lalitha College of pharmacy, Hyderabad, India on International conference on "Imbibing pharmaceutical knowledge to the professionals" on 28th-31st, January, 2011.

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

- Association of Ethnopharmacological society of India.
- Association of Pharmacy Teachers of India
- Crystal Research Society,

- Telangana Pharmacist Association
- Andhra Pradesh State Pharmacy Council – 2002-present

REVIEWING RESEARCHPAPER IN PROFESSIONAL JOURNALS (Last 4 Years only):

S. NO	Journal Name	Number of Manuscripts Reviewed
1	Cellular Physiology and Molecular Biochemistry	6
2	<i>International Journal of Pharm Pharm Sci</i>	4
3	<i>International Journal of Pharmacy and Biological Sciences</i>	9
4	Kidney and dialysis	1
5	Oncology target	1
6	Annual Review & Research in Biology	1
7	<i>Mediators of inflammation</i>	2
	Total	24

PERSONAL DETAILS

Name : **Dr. P. Goverdhan**
Father name : **Sri Ramaiah**
Date of Birth : 06th January 1977
Nationality / Religion : Indian / Hindu
Languages known : Telugu, English and Hindi
Marital Status : Married
Sex : Male
Permanent Address : P. Goverdhan, Vittalapur (Post), Chinnakodoor (Mandal),

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Reference

- **Prof. G. Krishna Mohan ,**
Professor in Pharmacy,
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Declaration:

I hereby declare that the information furnished above is true to best of my knowledge.

Goverdhan P