

# ***CURRICULUM VITAE***

## **Dr. Ramgopal Mopuri**

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## **Educational Qualification**

Ph. D	Biochemistry	Sri Venkateswara University, India	2010-2014
M. Sc	Biochemistry	Yogi Vemana University, India	2007-2009
B. Sc	Biochemistry	Sri Krishnadevaraya University, India	2004-2007

## **Teaching Experience**

Associate Professor in Biochemistry/Animal Science, BEST innovation University, Anantapur, Andhra Pradesh, India

Year 2021-Do

Guest lecturer in Biochemistry, Krishna Teja Degree and PG College, Tirupati, India 2010-2012

## **Research Experience**

1. 2 Years 4 months (May-2018 to Aug-2020) of visiting scientist/Postdoctoral research experience. Institute of Animal Science, Agricultural Research Organization, Volcani Center, Israel.

**Title:** Non-alcoholic fatty liver disease and therapeutic applications.

Fellowship&Grant: 2 Years 4 months NIS 2,40,000 Israel New Shekel (equal to INR: 48,00,000/-)

2. 8 Months (Sep-2017 to Apr-2018) of Postdoctoral research experience (SERB-NPDF). Dept. of Biotechnology Sri Krishnadevaraya University, India.

**Title:** Isolation of phytochemicals from *Caralluma adscendens* var. *gracilis* and their activities on type 2 diabetic rats.

Fellowship and Research Grant: 19,20,000/- (For 2 Years)

3. 2 Years (Apr-2015 to Mar-2017) of Postdoctoral research experience. Dept. of Biochemistry, University of KwaZulu-Natal, South Africa.

**Title:** Bioactive fractions of *Ficus carica* fruit on obesity and type 2 diabetes.

Research Grant and Fellowship: ZAR 4,00,000/- (equal to INR 20,00,000/-) for 2 years

**Research Interest:** Metabolic dysregulation (Obesity, Type 2 diabetes & NAFLD), Phytomedicine and Molecular Biology.

### **Membership in Peer Reviewed Journals**

1. Guest editor (Invited) in *Frontiers in Pharmacology* (in process)
2. Editorial Board member in *Microbiology* research and reviews
3. Editorial member in *Pharmacognosy Magazine* (PubMed)
4. Editorial and reviewer in *Journal of Intercultural Ethnopharmacology* (PubMed)
5. Reviewer for *Biomedicine & Pharmacotherapy* (Elsevier)
6. Reviewer for *Biocatalysis and Agricultural Biotechnology* (Elsevier)
7. Reviewer in *Journal of Diabetes* (Wiley)
8. Reviewer in *BMC Complementary and alternative Medicine* (BioMed Central)

### **Research Publications**

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

#### **1<sup>st</sup> and equal 1<sup>st</sup> author papers**

1. Mugagga K<sup>#</sup>, **Ramgopal Mopuri<sup>#</sup>**, Rosov A, Nir E, Uzi M, Dvir H. "High-dose vitamin B1 therapy prevents the development of experimental fatty liver driven by overnutrition". *disease models & mechanisms*. 2021; 18;14(3): **#Equal 1<sup>st</sup> author.** (IF 5.7).
2. **Ramgopal Mopuri**, Mugagga Kalyesubula, Alexander Rosov, Nir E, Uzi Moallem, Hay Dvir. Improved Folch method for liver-fat quantification. *Frontiers in Veterinary Science*. doi: 10.3389/fvets.2020.594853. (IF: 3.4).
3. **Ramgopal Mopuri**, Muniswamy G, Balaji Meriga, Neil Anthony Koorbanally, Islam MS. The effects of *Ficus carica* on the activity of enzymes related to metabolic syndrome. *J of food and drug analysis* 2018 (26) 201-210 (IF 4.7).
4. **Mopuri R** and Islam MS. Medicinal plants and phytochemical compounds with anti-obesogenic activity: A Review, *Biomed & Pharmacoth*. 2017; 89:1442-1452. (IF 6.5)
5. **Ramgopal Mopuri** and Islam MS. Antidiabetic and anti-obesity activity of *Ficus carica*: In vitro experimental studies. (Abstract) *Diabetes & Metabolism*, 2016; 42(4): 300. (IF: 4.6).

6. **Ramgopal Mopuri**, Muniswamy G, BS. Kruthika, and Balaji Meriga. *Terminalia paniculata* regulates adipogenesis through inhibition of lipogenic genes in high fat diet fed obese rats. *BMC complementary and alternative medicine*, 2015; 54: 12. **(IF 2.8).**
7. **Ramgopal Mopuri** and Balaji Meriga. In vitro anti-oxidant activity and acute oral toxicity of *Terminalia paniculata* bark ethanolic extract on Sprague Dawley rats. *Asian Pac J Trop Biomed* 2014; 4(4): 294-298 (Elsevier) **(IF: 1.9).**
8. **Ramgopal Mopuri**, BS. Kruthika, D. Surekha and Balaji Meriga. *Terminalia paniculata* bark extract attenuates nonalcoholic fatty liver via down regulation of fatty acid synthase in high fat diet-fed obese rats. *Lipids in Health and Disease* 2014, 13:58 **(IF: 3.5).**
9. **Ramgopal Mopuri** and Balaji Meriga Anti-Lipase and Anti-Obesity Activities of *Terminalia Paniculata* Bark in High Calorie Diet-Induced Obese Rats. *Global Journal of Pharmacology* 8 (1): 114-119, 2014. (Scopus).
10. **Ramgopal Mopuri** and Balaji Meriga (2012). Hypolipidemic and Anti-Obesity Effects of *Terminalia paniculata* ehanolic extract on Sprague-Dawley rats Fed with High Fat Diet. *Behavioural Pharmacology*. (Abstract) 23(5): 634-634. **(IF: 2.02)**

### **Co-corresponding author publications**

1. Maruthi Prasad E, **Ramgopal Mopuri\***, Madhusudhana P, Kareem M, Dase Gowda KR, Mackraj Irene, Yingli Lu, Md. Shahidul Islam, Lakshmi Devi Kodidhela Molecular assessment of protective effect of *Vitex negundo* in ISO induced myocardial infarction in rats. *Biomedicine & Pharmacotherapy*. 2017 (92): 249-253. **(IF 6.5)**
2. Prasad E, **Ramgopal Mopuri**, Md. Shahidul Islam, Lakshmi Devi Kodidhela Cardioprotective effect of *Vitex negundo* on Isoproterenol induced myocardial necrosis in wistar rats: A dual approach study. *Biomed & Pharmacother*, 2017; 85:601-610. **(IF 6.5).**

### **Co-author publications**

1. Kalyesubula M, **Ramgopal Mopuri**, Alexander Rosov, Guy Van Bommel and Hay Dvir. Metabolic Effects of Vitamin B1 Therapy under Overnutrition and Undernutrition Conditions in Sheep. *Nutrients* 2021, 13, 3463. **(IF 5.71).**

2. Mugagga Kalyesubula, **Ramgopal Mopuri**, Alexander Rosov, Tamir Alon, Nir E, Uzi Moallem, Hay Dvir. Hyperglycemia-stimulating diet induces liver steatosis in sheep. *Scientific Reports* 2020 10(1)1-12. **(IF 3.99)**.
3. Snivasulu C, **Ramgopal Mopuri** et al., Syringic acid (SA) – A Review of Its Occurrence, Biosynthesis, Pharmacological and Industrial Importance. *Biomed&Pharmacother* 2018 (108) 547-557 **(IF 6.5)**
4. Chukwuma CI, **Ramgopal Mopuri**, Anil Chuturgoon, Nagiah Savania, Islam MS. Erythritol reduces small intestinal glucose absorption, increases muscle glucose uptake, improves glucose metabolic enzymes activities and increases expression of Glut-4 and IRS-1 in type 2 diabetic rats, *Eur J Nutr.* 2018 Oct; 57(7):2431-2444 **(IF: 4.66)**
5. Erukainure OL, **Ramgopal Mopuri**, Chika I. Chukwuma, Neil AK, Md. Shahidul Islam. Phaseolus lunatus (lima beans) abates Fe<sup>2+</sup>-induced hepatic redox imbalance; inhibits intestinal glucose absorption and major carbohydrate catabolic enzymes; and modulates muscle glucose uptake. *J Food Biochem.* 2018 (42) issue 6; e12655. **(IF 1.8)**
6. Erukainure O, **Ramgopal Mopuri**, Islam MS., Dacryodes edulis Enhances Antioxidant Activities, Suppresses DNA Fragmentation in Oxidative Pancreatic and Hepatic Injuries; and Inhibits Carbohydrate Digestive Enzymes linked to Type 2 Diabetes. *Biomed&Pharmacother*, 2017 (96) 37-47 **(IF 6.5)**
7. Suhas A. Shintre, Deresh Ramjugernath, Islam MS, **Ramgopal Mopuri**, Chunderika Mocktar, Neil A. Koorbanally. Synthesis, in vitro antimicrobial, antioxidant, and antidiabetic activities of thiazolidine–quinoxaline derivatives with amino acid side chains, *Medicinal Chemistry Research.* (2017) 26, 2141-2151. **(IF: 1. 9)**
8. Nomandla Ngcoya, **Ramgopal Mopuri**, Nagaraju Kerru, Oluwakemi Ebenezer, Neha Manhas, Shahidul Islam, Parvesh Singh,  $\alpha$ -Glucosidase inhibition, antioxidant and docking studies of hydroxycoumarins and their mono and bis O-alkylated/acetylated analogs. *Letters in Drug Design & Discovery.* 2018, 15 (2), 127-135. **(IF: 1.16)**
9. Meriga Balaji, Ganjai MS, Hanuma Kumar Gali E.N, Parim BN, **Ramgopal Mopuri** and Sreenivasulu Dasari. A review on possible therapeutic targets to contain obesity: The role of phytochemicals. *Obesity Research & Clinical Practice*, 2016; 10 (4) 363-80. **(IF: 2.3).**

10. Balaji Meriga, **Ramgopal Mopuri**, T. MuraliKrishna (2012). Insecticidal, antimicrobial and antioxidant activities of bulb extracts of *Allium sativum*. Asian Pac J Trop Med. 2012 May;5(5):391-5 **(IF: 1.9).**

### **Books and Book chapters**

1. **Mopuri Ramgopal**, Chakka L R Jaidev, Golla Narasimha. Impact of Hydrocarbon Industrial Wastes on Soil Microbial Activities. LAP Lambert Academic Publishing (17 Dec. 2014).
2. Kirti Chawla<sup>#</sup>, **Ramgopal Mopuri<sup>#</sup>**, Sharma AK, Pawan Kumar. Chapter 3 - Arnebia euchroma. Himalayan Medicinal Plants. Advances in Botany, Production & Research 2021; 27-41. #Equal 1st author (Book chapter).

### **Fellowships, Honors and Awards**

- ✓ Research excellence award from Institute of Scholars INSC, India 2020
- ✓ Recipient of SERB National Postdoctoral fellowship, Govt. of India 2017-2019
- ✓ Received Research office travel grant to present Paper at 9<sup>th</sup> Diabetes and cardiovascular disease conference held in France on June 29<sup>th</sup>-2<sup>nd</sup> 2016
- ✓ Received travel bursary of Obesity summit-2015 held in O2 city, London, April 14-16 2015
- ✓ CSIR- Senior Research Fellowship, New Delhi, India 2013-2014
- ✓ Received ICMR Young scientist travel fellowship (to present paper, NTU, Singapore) 2013
- ✓ Received DST-SERB Young scientist travel fellowship (to present paper at Sapienza University of Rome, Italy) 2012
- ✓ CICS travel fellowship (presentation at Sapienza University of Rome, Rome, Italy) 2012
- ✓ Best participant Certificate in “TRendys 2011 in Biochemistry, S.V. University, Tirupati 2011
- ✓ 1<sup>st</sup> rank in B. Sc Biochemistry 2007

### **Foreign country Visits**

Italy, Singapore, France (Paris), Qatar, South Africa, China and Israel

### **Analytical instrumentation and technical experience**

**Animals:** Handling of experimental rodents and Sheep. Development of diseases models, Drug dose interventions on *in vivo* models (Oral, SC, and IP, etc.,) and histopathology studies.

- Diet Induced – Obesity using SD and Wistar rats

- STZ Induced – Streptozotocin alone and Streptozotocin + Nicotinamide model for Type 2 diabetes and Type 1 diabetes
- Fatty liver model by overnutrition
- Carbon tetrachloride induced liver fibrosis (Rat)

**Biochemical assays:** Glucose estimation, fat extraction quantification, Glucose tolerance test, enzymatic assays, micro plate reader (96wells) and ELISA assays. Colorimetric assays, Histopathology.

- Cell and tissue-based assays
- Fat extraction and quantification (Mopuri et al 2020, Frontiers in Veterinary Science)
- Ex vivo studies for target engagement using different tissue samples

**Analytical:** Medicinal plant compounds isolation, rotary evaporator, Auto analyzer, Microplate reader, Spectrophotometer, Column chromatography, GC-MS/MS and LC-MS/MS (phytochemical analysis).

**Molecular biology:** Protein, RNA, DNA isolation, Gel Electrophoresis, PCR and qPCR.

### Conferences attended/presented papers

#### **International conferences:**

1. Presented a paper in international conference on “Eating Behaviour and Obesity” held on 7-9 Sept 2012 at Rome, **Italy**.
2. Presented a paper at international conference on “Natural products and health” held at School of biological sciences, Nanyang Technological University, **Singapore**, on 5-7<sup>th</sup> Sep, 2013.
3. Participated in University research day meeting held at University of KwaZulu-Natal, Durban, **South Africa** in Sep 7<sup>th</sup>, 2015.
4. Presented a paper at 9th Annual meeting of the diabetes & cardiovascular disease held in **France** on 29<sup>th</sup> to 2<sup>nd</sup> July, 2016.
5. **Co-chair and presenter** 2nd International Conference on Ayurveda Traditional Medicine and Medicinal Plants at **Srilanka**, Dec, 22-2017.

#### **National conferences:**

6. Participated in National seminar on “Current trends in biological chemistry” held at Dept of Biochemistry, Sri Krishna Devaraya University on 17-19<sup>th</sup> of Dec-2006.

7. Participated in International seminar on “Medicinal plants and herbal products” held at Dept of Botany, Sri Venkateswara University, Tirupati, India on 7-9<sup>th</sup> march, 2008.
8. Presented a paper entitled “Effect of Dairy effluents on soil enzymes” at national conference on recent advances in Molecular biology and microbial technology, Dept of Microbiology, Kakatiya University, Warangal, India on 22-24 Jan, 2009.
9. Presented a paper in international conference on Plant Biotechnology and Genomics, Dept of Biochemistry, Yogi Vemana University, India on 6-7<sup>th</sup> Feb, 2009
10. Presented a paper in international symposium on Environmental pollution ecology and human health held at Dept of Zoology, Sri Venkateswara University on 25-27 July, 2009.
11. Presented a paper in 2<sup>nd</sup> AP Science congress held at Sri Venkateswara University on 14-16<sup>th</sup> Nov, 2009
12. Participated in “XIX national conference on Recent trends in viral Disease Problems and Management” held at Dept of Virology, Sri Venkateswara University on 18-20 march, 2010.
13. Presented a paper in National seminar on “application of microbes in management of agriculture and environment” held at Dept of Microbiology, Sri Krishna Devaraya University, on 4-6<sup>th</sup> March, 2011.
14. Participated in international meeting on “Theoretical and experimental immunology” held at Indian Institute of science, Bangalore, on 16<sup>th</sup> August, 2011.
15. Presented a paper in National conference on “Modern innovations and approaches in Biotechnology” held at Dept of Biotechnology, Sri Padamavathi Mahila University, on 29-1 march, 2012.
16. Presented a paper at national conference on “Biotic and abiotic molecules-their health effects and therapeutic applications” held at Sri Venkateswara university, on 24-25<sup>th</sup> Feb, 2012.
17. Oral presentation at international conference on “Emerging threats and challenges to Biodiversity: Policy framework for sustainable management” held at Dept of Botany, Sri Venkateswara University, on 2-4<sup>th</sup> march, 2012.
18. Participated in international conference on “Environmental impact on Human health and therapeutic challenges” held at Dept of Virology, Sri Venkateswara University, on 20-22<sup>nd</sup> Dec, 2012.
19. Presented a paper in international conference on “Role of plant Biochemistry and biotechnology I food and nutritional security” held at Dept of Biochemistry, Sri Venkateswara University, on 11-14<sup>th</sup>, 2013.

20. Participated in Colloquium on “Stem cell research and human therapeutics” held at Sri Venkateswara University, on 19<sup>th</sup> April, 2014.

### **Workshops**

2. Attended a national workshop on “Importance of Medicinal plants in human health care” Organized by Dept of Botany, Sri Padmavathi Degree and PG College, Tirupati, India, on 19-20<sup>th</sup> March, 2011.
3. Participated in a national Workshop on Biostatistics- Theory and practice, Organized by Dept of Statistics, S.V. University, Tirupati, A.P. India, on 17-19<sup>th</sup> Feb, 2011.
4. Attended a training programme on Fifth UGC-NRC-workshop in Biological Science-May 1-25, 2012.Organized by Division of Biological Science, **Indian Institute of Science**, Bangalore, India
5. Participated in Science academies’ lecture workshop on “Biotechnology for sustainable development” held at Dept of Zoology, Sri Venkateswara University, on 29-30<sup>th</sup> Aug, 2012.
6. Attended a training programme on Genomics workshop held at Dept of Animal Science, University of Hyderabad, India on October, 2012.
7. Participated in national workshop on “Trends and techniques in isolation of Bio-active molecules” held at Dept of Zoology, Annamalai University, on 31<sup>st</sup> Jan-2<sup>nd</sup> Feb, 2013.
8. Participated in Science academies lecture workshop on “Advances in biology and biotechnology” held at Biochemistry, Sri Venkateswara University, on 2-4<sup>th</sup> April, 2014.

Sincerely

***Dr. Ramgopal Mopuri***

### **List of referees**

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