



## Curriculum vitae of Dr. Mallikarjuna. B

### **Dr. Mallikarjuna. B**

#### **Lecturer in Chemistry**

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### **CAREER OBJECTIVE**

To work in a challenging and dynamic environment and to strive hard to contribute towards the progress of the institute.

### **MINOR RESEARCH PROJECT TITLE 2017-19**

**SYNTHESIS AND CHARACTERIZATION OF BIODEGRADABLE POLYMERIC MATRICES FOR CONTROLLED RELEASE OF BIOACTIVE MOLECULES**

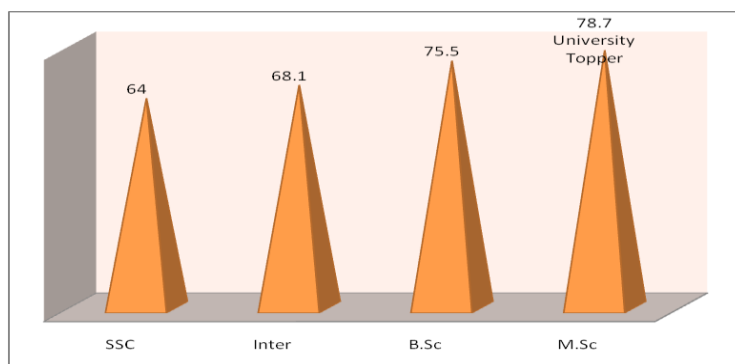
### **PH.D THESIS TITLE**

**SYNTHESIS AND CHARACTERIZATION OF BIODEGRADABLE POLYMERIC MATRICES FOR CONTROLLED RELEASE OF BIOACTIVE MOLECULES**

### **SUMMER PROJECT TITLE**

**Synthesis of Phloroglucinol based Poly (alkyl aryl ether) Dendrimers**

## EDUCATIONAL QUALIFICATIONS



Examination Passed	Name of the Board/ University	Year of Passing	% of Marks
M.Sc (Organic Chemistry)	Yogi Vemana University, Kadapa	2008	78.77
B.Sc (M.P.C)	S.V. University	2005	75.5
Intermediate	Board of Intermediate Education	2002	68.1
S S C (X)	Board of Secondary Education	2000	64.0

## ACHIVEMENTS

- Received UGC-Minor Research Project 2017-19
- Selected IAS Summer research fellowship-2013 in IISc, Bengaluru
- Selected as Asst. Professor in December-2011
- Selected CSIR-SRF in May-2011.
- Qualified CSIR-JRF in June 2008.
- Qualified NET in December 2009.
- Cleared GATE 2008 with rank 344 & percentile 94.64.
- IIT JAM 2007 succeeded with rank 207.
- Cleared NIT with 42 rank.

## TEACHING EXPERIENCE

- Working for PG and Degree students in the Dept of chemistry, Govt Arts College (Autonomous), Rajahmundry, 06/10/2014 to till date.
- Worked as Degree college lecturer in the Dept of chemistry, S. A. S. Govt Degree College, Narayanapuram, Westgodavari-A.P, India. (1/1/2012 to 5/10/2014).
- Dept. of Chemistry, Sri Krishnadevaraya University, Anantapur, INDIA. (07/2009 to 25/12/2011).

- I was worked as teaching assistant for PG courses in Yogi Vemana University, Kadapa, in the period (24-07-2008 to 10-04-2009).
- Instructed master students on basic concepts of chemistry.
- Guided master students in laboratory experiments and evaluated laboratory term reports.

#### POSITIONS HELD IN COLLEGE

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- DST-FIST Coordinator
- Nodal Officer-Community College
- JKC Coordinator
- NAAC Co coordinator
- BOS member and participated in the preparation of I. B.Sc CBSE syllabus
- Member of school and college cricket team. Sports enthusiast interested in playing Badminton and tennis.
- I won the two times first prize in the Dance competitions.
- BOS member and participated in the preparation of II. B.Sc CBSE syllabus
- Convener for National Seminar ABCDF-2016

#### RESEARCH INTEREST

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- Synthesis of dendrimers and its applications of drug delivery.
- Targeted polymeric drug delivery.
- Synthesis and characterization of modified biopolymeric nanoparticles for anti Cancer/anti HIV drug release.
- Preparation of silvernanoparicles loaded biohydrogels/membranes and its antibacterial studies.
- Development of Biopolymer hydrogel membranes for control drug delivery applications.

#### RESEARCH EXPERIANCE

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- Synthesis of poly (aryl alkyl dendrimers).
- Polymeric matrices (viz. environmentally responsive hydrogels) were developed in the form of micro and to use as drug carriers.

- Preparation of microspheres of polymer materials for controlled release of drug to the targeted site without side effects.

## MEMBERSHIP

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- Life time membership in IANCAS-BARC, Mumbai

## HANDS ON EXPERIENCE

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- Thin Layer Chromotography
- Column Chromotography
- Rotoevoparation
- Dissolution Test Apparatus (Tablet dissolution tester, Lab India)
- Fourier Transform Infrared spectroscopy (FTIR)
- UV-Visible Spectrophotometer
- Analytical instruments- potentiometer, conductivity, pH- meter, turbidity meter.

## COMPUTER SKILLS

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- 1) General Office Softwares : Windows 98/2000/XP, Ms-Office, DOS
- 2) Application Softwares : Paint, PhotoShop, Origin, Adobe's Photo Deluxe etc.
- 3) Professional Softwares : Chems sketch, Chem draw, Chem window etc.

## PERSONAL SKILLS

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A flexible novice ardent to learn innovative with good communicating skills, ability to handle fragile jobs with care and perfection, hardworking, ability to deal with people diplomatically, good team membership qualities.

## RESEARCH PUBLICATIONS

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(2018)

1. **B. Mallikarjuna**, K.Pallavi, O.Sreekanth Reddy, N. Madhavi. K.Chowdoji Rao and M.C.S. SUBha. **pH - sensitive biodegradable hydrogel membrane for controlled release of anti HIV drug. AIP Conf. Proc. 1992, 040038-1–040038-9; <https://doi.org/10.1063/1.5048003>**

(2015)

2. **B. Mallikarjuna**, K. Madhusudhan Rao, U. Sajjan, K. Sudhakar, K. Chowdoji Rao, M.C.S. Subha. Interpenetrating polymer network hydrogel membranes of Chitosan and Gelatin for Control release of Anti Cancer Drug. **Asian Journal of pharmacetics**,7(2015),118-124.

(2014)

3. S.Siraj, P.Sudhkar, **B. Mallikarjuna**, K. Chowdoji Rao and M.C.S. Subha. Biodegradable PHBV/PEO Blend Microspheres for Controlled Release of Bosentan Monohydrate: Preparation, Characterization and *In Vitro* Release Studies. *Int. J. Pharm. Sci. Rev. Res.*, 25(2), Mar – Apr 2014; Article No. 20, Pages: 103-109.

(2013)

4. **B. Mallikarjuna**, K. Madhusudhan Rao, P. sudhakar, K. Chowdoji Rao, M.C.S. Subha. Chitosan based biodegradable hydrogel microspheres for controlled release of an Anti HIV drug. **Indian Journal of Advances in Chemical Sciences** 1(3)(2013)144-151.
5. K. Madhusudana Rao, **B. Mallikarjuna**, K.S.V. Krishna Rao, S.Siraj, M.C.S. Subha and K. Chowdoji Rao. Novel thermo/pH sensitive nanogels composed from poly(N-vinylcaprolactam)for controlled release of an anticancer drug. **Colloids and Surfaces B: Biointerfaces**. 102 (2013) 891-897.
6. K. Madhusudana Rao , **B. Mallikarjuna** , K. S. V. Krishna Rao , K. Sudhakar , K. Chowdoji Rao & M. C. S.Subha. Synthesis and Characterization of pH Sensitive Poly (Hydroxy Ethyl Methacrylate-co-acrylamidoglycolic Acid)Based Hydrogels for Controlled Release Studies of 5-Fluorouraci. **International Journal of Polymeric Materials and Polymeric Biomaterials**. 62 (2013) 565-571.
7. K.Sudhakar, K. Madhu Sudhana Rao, **B.Mallikarjuna**, C.V.Prasad, M.C.S. Subha and K.Chowdoji Rao. Preparation and characterization of Nimesulide loaded Poly (methyl methacrylate)/Poly (ethylene oxide) blend microspheres: *in vitro* release studies. **Asian Journal of Pharmacetics**,7(2013),118-124.
8. A. Chandra Babu, M.N. Prabhakar, A. Suresh Babu, B. Mallikarjuna, M.C.S.Subha and K. Chowdoji Rao. Development and characterization of semi-IPN silver nanocomposite hydrogel for Antibacterial applications. **International Journal of Carbohydrate Chemistry**, Volume 2013, Article ID-243695

(2012)

9. **B. Mallikarjuna**, K. Madhusudhan Rao, S. Seraj, A. Chandra Babu, K. Chowdoji Rao, M.C.S. Subha. Sodium alginate/ Poly(Ethylene oxide) blend hydrogel membranes for Controlled release of Anti HIV Drug. **Designed Monomers and Polymers** **14** (2012) 445–459.
10. K. Madhusudana Rao, **B. Mallikarjuna**, K.S.V. Krishna Rao, M.N. Prabhakar, M.C.S. Subha and K. Chowdoji Rao, pH Sensitive Poly (vinyl alcohol)/ Sodium carboxymethyl cellulose IPN microspheres for In-Vitro release studies of an Anti cancer drug. **Polymer Bulletin** **68** (2012) 1905-1919.
11. C.Venkata Prasad, B.Yerriswamy, **B. Mallikarjuna**, K.Sreekanth, MCS.Subha, K. Chowdoji Rao. Preparation and characterization of IPN beads for Controlled Release of Acebutolol hydrochloride. **Advances in Polymer Technology**, **31**(2)2012,87-99.

(2011)

12. **B.Mallikarjuna**, K.Madhusudhana Rao, C.Venkata Prasad, K.Chowdoji Rao and M.C.S.Subha. Development of Triprolidine Hydrochloride loaded pH Sensitive Poly (Acrylamide-co-Acrylamidoglycolic acid) copolymer microspheres: *In vitro* release studies. **Designed Monomers and Polymers** **14** (2011) 445–459.
13. **B.Mallikarjuna**, K. Madhu Sudhana Rao, C.V. Prasad, K.Chowdoji Rao, K.S.V.Krishana Rao and M.C.S. Subha. Synthesis, characterization and use of Poly(N-isopropylacrylamide-co-N-vinylcaprolactam)crosslinked thermoresponsive microspheres for controlled release of Ciproflaxin hydro chloride drug. **J.App.Pharm.Sci.** **2011**, **1** ( 6 ), 171-177.
14. P.Ramakrishna, **B.Mallikarjuna**, A. Chandra Babu, P.Sudhakar, K.Chowdoji Rao, and M.C.S. Subha. Interpenetrating polymer network of cross-linked blend microspheres for controlled release of Acebutolol HCl. **J.App.Pharm.Sci.** **2011**, **1** ( 6 ), 212-219.
15. B.Yerriswamy, C.VenkataPrasad, C.L.N.Reddy, **B.Mallikarjuna**, K.Chowdoji Rao and M.C.S.Subha. Interpenetrating polymer network microspheres of hydroxyl propyl methyl cellulose/poly (vinyl alcohol) for control release of Ciprofloxacin hydrochloride. **Cellulose.** **2011**, **18**, 349-357.

(2010)

16. C.V.Prasad, K.M. Sudhan Rao, **B.Mallikarjuna**, M.C.S.Subha and K. Chowdoji Rao.Synthesis and characterization of SA-g-MAA co-polymer. Effect of grafting and process variables on controlled release of an Anti-bacterial drug. **Advanced Materials Research, Vol. 123-125(2010) pp 387-390.**
17. Effects of fluidized bed drying parameters On the physical properties of water-glassBased silica aerogel powder.T. Shobha Rani and Yong-Ha Kim, Venkatareddy,C.VenkataPrasad, B .Yerriswamy and **B. Mallikarjuna**<sup>1</sup>. Bull. Phy. Sci. Vol. VI, Iss. 1, p.p. 13-19, 2010.

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#### **PAPERS PRESENTED IN SYMOSIA/CONFERENCES**

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1. I Attended the National Conference on “**Recent Research Trends In Synthetic Organic And Natural Products Chemistry (RRTSONPC-08)**” held during February 25-26,2008.Department of Chemistry, S.V.University, Tirupathi
2. I Attended an International Conference on **Advances In Polymer Technology (APT-10)** held during 26-27<sup>th</sup> February-2010 in Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology, Cochin22.
3. I presented a poster in National Conference on **Recent Research Trends In Synthetic Organic And Natural Products Chemistry (RRTSONPC-08)** held during 29 &30<sup>th</sup> March-2010 in Department of Chemistry, S.V.University, Tirupathi.
4. I Attended workshop on “**Radio Chemistry and Applications of Radioisotopes**” held during August 17-25, 2009 in Yogi Vemana University, Kadapa.
5. Paper entitled “**Poly (N-isopropylacrylamide-co-N-vinylcaprolactam) crosslinked thermoresponsive microspheres for control release of Ciproflaxin hydro chloride drug**” accepted for oral presentation at international conference on Advancements in Polymeric materials held during March 25-27<sup>th</sup> 2011 at Chennai.
6. Paper entitled “**Development of Triprolidine Hydrochloride loaded pH Sensitive Poly (Acrylamide-co-Acrylamidoglycolic acid) copolymer microspheres: In vitro release studies**” accepted for oral presentation on National conference POLYCON’2011 held during April 25 & 26<sup>th</sup> 2011 at Mysore.
7. K. Madhusudana Rao, **B. Mallikarjuna**, K.S.V. Krishna Rao, M.N. Prabhakar, M.C.S. Subha and K. Chowdoji Rao, pH Sensitive Poly (vinyl alcohol)/ Sodium carboxymethyl cellulose IPN microspheres for In-Vitro release studies of an Anti cancer drug 5<sup>th</sup> **National Conference on Plastic and Rubber Technology (NCPRT) April ,22-23, 2011** at Mysore - 570 006, Karnataka, India (**Oral Presentation**)
8. Paper entitled “**Sodium alginate/Poly (Ethylene oxide) blend hydrogel membranes for Controlled release of valganociclovir hydrochloride**”

accepted for oral presentation on National conference CGP-2011 held during October 24 & 26<sup>th</sup> 2011 at Sri Krishnadevaraya University, Anantapur.

9. Paper entitled “**Interpenetrating polymer network hydrogel membranes of chitosan and gelatin for controlled release of anti cancer drug**” accepted for oral presentation on National conference APM’2012 held during March 16 & 17<sup>th</sup> 2012 at Sri Krishnadevaraya University, Anantapur.
10. I Attended an International Conference on "ROLE OF CHEMISTRY IN DRUG DISCOVERY" held during 6<sup>th</sup> July-2013 in Department of Chemistry, Krishna University, Krishna Dt, Andhra Pradesh .
11. I Attended the National Conference on “NEW FRONTIERS IN ECO-FRIENDLY CHEMISTRY” held during 27-28<sup>th</sup> September,2013,Department of Chemistry, Govt College for women, Guntur, Andhra Pradesh.
12. I Attended the National Conference on “Work shop on Gandhian vision-different facets” held during 2-3<sup>rd</sup> October,2013,S.C.I.M. Govt College, Tanuku, Andhra Pradesh.
13. I Attended the National workshop on "Green Chemistry, its need and role in our Society" organized by Department of Chemistry, Dharma Apparao College, Nuzvid, 10<sup>th</sup> and 11<sup>th</sup>February,2014.
14. I Attended UGC-Refresher Course from 09-05-2014 to 29-05-2014 Conducted by Andhra University, Vishakhapatnam., A.P
15. I Attended UGC-Refresher Course from 04-08-2014 to 23-08-2014 Conducted by Sri Venkateswara University, Tirupathi
16. I Attended the International workshop on "STRESS&RESILIENCE TECHNIQUES" held during 16<sup>th</sup> November,2014 in Govt College (A),Rajahmundry, Andhra Pradesh.
17. I Attended 88<sup>th</sup> workshop on “**Radio Chemistry and Applications of Radioisotopes**” held during November 24-29, 2014 in Govt College (A), Rajahmundry.
18. I Attended the National Conference on “Advanced Technology Oriented Materials, ATOM-2014” held during 8-9<sup>th</sup> December, 2014,Department of Physics, Govt College(A), Rajahmundry, Andhra Pradesh.
19. I Attended the National Seminar on Advanced studies on Polymeric Materials and Applications NSAPMA-2015 organized by Sri Krishnadevaraya University, Anantapur during 14-15<sup>th</sup>, March 2015
20. I Attended the National seminar on Advanced Molecular Spectroscopic Techniques AMST 2015 organized by Department of Chemistry, Government College (A), Rajahmundry during August 2015



21. I Attended the National Seminar on Current Research Trends and Developments in Organic Synthesis CRADIOS-2015 organized by Adikavi Nannaya University, Rajahmundry
22. I Attended the National Seminar on Advances in Polymeric Materials NSAPM-2016 organized by Sri Krishnadevaraya University, Ananthapur during 5-6<sup>th</sup>, March 2015
23. I Attended Orientation cum Workshop on Management of Diversity and Equity in Universities and Colleges organized by the Department of Educational Administration of this University from March 7-11, 2016 at NUEPA, New Delhi
24. I Attended National Conference on “Advances, Breakthroughs, Challenges, Developments in Foodomics-2016” organized by Govt College(A), Rajahmundry, Andhra Pradesh, during 10-11<sup>th</sup>, November, 2016
25. I Attended National Workshop on “Digital Science Lab Workshop” organized by Govt College(A), Rajahmundry, on 24<sup>th</sup> November-2016
26. I Attended National Workshop on “MOOCs” organized by Govt. College(A), Rajahmundry, on 30<sup>th</sup> November&1<sup>st</sup> December-2016
27. I Attended STEM Teacher Training Workshop on Research- Based Pedagogical Tools (Level-1) held from 26<sup>th</sup> February to 1<sup>st</sup> March,2017 at IISER, Pune
28. I Attended the 47<sup>th</sup> Orientation Programme from 08-05-2017 to 03-06-2017 in JNTU, Hyderabad
29. I Attended the National Conference on “Recent Trends in Chemistry and Physics of Materials- RTCPM-2017” held during 15<sup>th</sup> & 16<sup>th</sup> September , 2017, Conducted by Department of Chemistry, SRR & CVR, Govt. Degree College (A), Vijayawada, A.P.
30. I Attended the National Symposium on “Stereochemical Characterization of Vital Molecules” on 18-09-2017 organized by P.G. Department of Chemistry, J.K.C. College (A), Guntur, A.P
31. I Attended the National Workshop on “Biomass to Bioenergy” Organized at Government College (A), Rajamahendravaram, during 19<sup>th</sup>&20<sup>th</sup> December 2017
32. I Attended the International Conference on “RENEWABLE ENERGY RESEARCH & EDUCATION” organized by Faculty of Sciences, Government College (A), Rajamahendravaram, from 8-10<sup>th</sup> February 2018
33. I Attended the National Conference on “Recent Advances in Medicinal Chemistry” Organized by J.K.C.College (A), Guntur on 21<sup>st</sup> February, 2018

34. I Attended the National Workshop on “ New paradigms in Quality Measures of HEIs” organized by Government College (A), Rajamahendravaram, on 24<sup>th</sup> March 2018
35. I Attended the One day National Workshop on “Intellectual Property Rights & Its Education for Young Minds” organized by Board of Research Studies & Academic cell of Government College (A), Rajamahendravaram, on 21<sup>st</sup> April 2018

#### PERSONAL DATA

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Date of Birth : 15.06.1984  
Marital Status : Married  
Nationality : Indian  
Languages known : English, Hindi and Telugu.

#### References

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