

## **BIODATA**

**Dr. Jorige Archana** M.Pharm, Ph.D

Associate Professor

Department of Pharmacology

RBVRR Women's College of Pharmacy

Barkatpura, Hyderabad, Telangana State.

*Mail Id: archanacology@gmail.com*



---

### **Objective**

To attain integral subject knowledge in theoretical, practical aspects and to utilize my knowledge and skills of pharmacology in research and applications. In achieving this, would be self-motivated, committed and determined. To inculcate interest in students towards higher order learning through implementing innovative teaching learning methods.

### **Academic Record**

- Bachelor of Pharmacy in 2000 from Bapatla College of Pharmacy, JNTU.
- Qualified GATE-2001 with All India 257<sup>th</sup> Rank
- Master of Pharmacy (Pharmacology) in 2003 from Department of Pharmaceutical Sciences. Andhra University, Visakhapatnam.
- Ph.D in Pharmaceutical Sciences in 2015 from University College Of Pharmaceutical Sciences, Andhra University, Visakhapatnam.

### **Teaching Experience: 15 Years**

- Worked as a Lecturer in the Bapatla College of Pharmacy for 5 months and as an Assistant professor in the Shadan Women's College of Pharmacy for 1 year.

- Worked as an Assistant professor in R.B.V.R.R. Women's College of Pharmacy, since 1-11-07 to 5-6-2016
- Presently working as an Associate professor in R.B.V.R.R. Women's College of Pharmacy, since 6-6-16 till date

### **Subjects Handled**

B.Pharm & Pharm D: Pharmacology (Theory and Lab)

Anatomy, Physiology and Health Education (Theory and Lab)

Biopharmceutics and Pharmacokinetics

Hospital and Clinical Pharmacy

Pathophysiology

Pharmacotherapeutics(Theory and Lab)

M.Pharm: Intellectual Property Rights and Regulatory affairs

Drug screening methods

Modern Bioanalytical Techniques

### **Other Academic and Administrative assignments**

- Head, Department of Pharmacology
- Faculty –In-Charge, Animal House
- NBA Coordinator
- Chief examiner for University exams, Oct/Nov 2017
- Observer, O.U and Padmavathy Mahila University examinations
- SWAYAM mentor

### **Honours and Awards**

- Qualified GATE-2001 with All India 257<sup>th</sup> Rank (92.43 percentile) and received UGC scholarship for Masters.
- Reviewer for Evidence-Based Complementary and Alternative medicine (Hindwai)
- Infectious Disorders - Drug Targets(Bentham science)
- Reviewer for Journal of Hormonized Research

**Skills/Techniques:**

- Animal handling, Experimentation, Pyrogen testing, Toxicity, Biological Assays, Screening methods, etc.
- Expertise in using various Pharmacocological screening equipment
- Analytical methods: Sound theoretical knowledge and interpretation of Titrations, spectrophotometry, chromatography (paper, thin layer, column chromatography,HPLC).
- problem-solving skills and the ability to find and employ creative solutions when carrying out experiments

**Research Areas:**

- ✓ Diabetes and its complications
- ✓ Molecular and biochemical Pharmacology
- ✓ Traditional and alternative medicine
- ✓ Bioanalytical Techniques

**Papers Published: 17****Total Number of Citations: 84****International – 15**

1. Shaik Bima Benazir, **Jorige Archana**, Mogili Sumakanth. Method Development and Validation of Empagliflozin in Bulk and Pharmaceutical Dosage Form using UV Spectroscopy Asian Journal of Pharmaceutical Analysis. 11(2): April - June, 2021
2. Shaik Bima Benzir AND **Jorige Archana**. Development and Validation Of UV Spectroscopic Method For Estimation Of Empagliflozin In Rat Plasma For Pharmacokinetic Applications IJBPAS, December, 2020, 9(12): 3406-3415
3. Rajeshwari K, Anantha Lakshmi PV, **Archana J**, Sumakanth M. Ternary Cobalt (II), Nickel (II), and Copper (II) complexes containing metformin and

ethylenediamine: Synthesis, characterization, thermal, in vitro DNA binding, in silico molecular docking, and in vivo antihyperglycemic studies. *Applied Organometallic Chemistry*. 2021 Feb;35(2):e6100.

4. **Jorige A**, Lohitha B, Lavanya SL. A cross sectional study on prescribing pattern for children at primary health care clinics. *Int J Community Med Public Health* 2020;7:3149-52.
5. Ashwini P, **Archana J** and Sumakanth M: Development and validation of UV spectrophotometric method for simultaneous estimation of empagliflozin and metformin hydrochloride in combined dosage form. *Int J Pharm Sci & Res* 2020; 11(5): 2173-80. doi: 10.13040/IJPSR.0975-8232.11(5).2173-80.
6. **Archana J**, Mellacheruvu PK. The need to confront antimicrobial resistance in India. *European journal of clinical pharmacy: atención farmacéutica*. 2019;21(4):213-20.
7. M.P.Kusuma\* and **J.Archana**. Curcumin Nanoconjugates- A Restitutive Therapeutics. *International journal of Pharmacy and Biological sciences*. 2019; 9(2): 47-51.
8. **Archana J**, Kusuma MP, Vijayabhargavi C. Antioxidant and Anti Cholinesterase Potential of Red Cabbage (*Brassica oleracea* var. capitata f. rubra). *European Journal of Medicinal Plants* 22 (1): 1-7, 2018; Article no.EJMP.38169 ISSN: 2231-0894.
9. Bhargavi MV, Shashikala P, Sumakanth M, **Archana J**. Synthesis, Molecular Docking and Biological Evaluation of Novel N-(Benzyloxy)-6-Fluro-Chromone-2-Carboxamides and N-(Benzyloxy)-Chromone-3-Carboxamides as Analgesic and Anti-inflammatory Agents. *Der Pharma Chemica*, 2018, 10(5): 94-103
10. Kusuma, M.P., **Archana Jorige** and Vijaya Bhargavi,M., 2016. "A Comparative study of Myrosinase Activity in selected Cruciferous Vegetables after

Conventional Heat and Microwave Treatments”, International Journal of Current Research, 8, (12), 43668-43670

11. **Jorige Archana** and Akula Annapurna. "Neuroprotective And Antioxidant Role Of Pregabalin in Streptozotocin Induced Neurotoxicity." International Journal of Pharmaceutical Sciences and Research 7.11 (2016): 4494.
12. **Jorige Archana** and Annapurna Akula. "Neuroprotective Role of Wheatgrass Powder in Experimental Diabetic Neuropathy via Modulating Oxidative Stress Markers in Rat Sciatic Nerves." American Journal of Phytomedicine and Clinical Therapeutics 3.7 (2015): 529-540.
13. **J. Archana** and M.P. Kusuma “A study of Cardiovascular and Antimicrobial effects of *Tinospora cordifolia*”, International Journal of Pharmaceutical Sciences and research. ; 2012; Vol. 3(9): 3486-3489 (IF: 2.14).
14. M.P.Kusuma, **J.Archana** and B.Archana, “Comparative study of various entrapped techniques of immobilization using amylase”, Biosciences, Biotech. Research Asia; 2010;Vol 7 (2) : 995-998.
15. Radhika, Parvataneni, Pragada Rajeswara Rao, **Jorige Archana**, and Nalamolu Koteswara Rao. "Anti-inflammatory activity of a new sphingosine derivative and cembrenoid diterpene (lobohedleolide) isolated from marine soft corals of *Sinularia crassa* TIXIER-DURIVAULT and *Lobophytum* species of the Andaman and Nicobar Islands." *Biological and Pharmaceutical Bulletin* 28, no. 7 (2005): 1311-1313.

#### **National -2**

16. Sushmitha, C., M. P. Kusuma, and **J. Archana**. "FORMULATION AND EVALUATION OF RUTIN TRIHYDRATE EMULGEL." (2020).
17. **Archana, J.**, and C. Vijaya Bhargavi. "Retinoids-an overview of clinical applications in dermatology." *J Pharm Sci Res* 2 (2010): 376-383.

#### **Books:**

Neuroprotective Role of Pregabalin In Experimental Diabetic Neuropathy. LAP LAMBERT Academic Publishing. ISBN No.978-620-2-00860-0.2017.

## Projects Handled:

### Consultancy/Collaborative Projects

S.NO	Project title	
1	Evaluation of antihyperglycemic effect of Ternary Cobalt (II), Nickel (II), and Copper (II) complexes containing metformin and ethylenediamine.	Collaborative project

### M.Pharm Projects

S.No	Title of Project	Student Name
1	Development and Validation of New Analytical and Bioanalytical Methods for the estimation of Empagliflozin	Shaik Bima Benazir R.No:170618885004
2	A New Validated UV And RP-HPLC Method For Simultaneous Estimation of Empagliflozin and Metformin Hydrochloride in Combined Tablet Dosage Form	Potdar Ashwini R.NO: 170617885009

### Mini projects: B.Pharm

1. A comparative study of anti-depressant activity of selected marketed ayurvedic formulations.
2. Effect of riboflavin on anti-nociceptive effect of diclofenac in animal models of nociception.
3. A cross sectional study on prescribing pattern in pediatrics in primary health care clinics
4. Study of Antihyperglycemic effect of cobalt metal complex in STZ-Nicotinamide induced Diabetes in Albino male wistar rats
5. A comparative study of chemically induced Animal models of Diabetes mellitus
6. Quality control of and *in vivo* antidepressant activity of selected Ayurvedic formulations.
7. Attenuation of CNS deficits in Diabetic rats on metformin treatment
8. Evaluation of prescribing patterns of cephalosporin antibiotics in primary health care

clinics.

### **List of Conference Papers**

1. National Level Conference on “Pharmacy and Health Care: Paradigm Shift From Traditional Knowledge to Modern Techniques” on 19<sup>th</sup> to 20<sup>th</sup> February, 2020 at St Paul's College of Pharmacy, Hyderabad.
2. Presented a Poster on “Evaluation of Acetylcholine esterase inhibitor activity and antioxidant activity of *Brassica oleracea var capitata f. rubra* extract using **TLC autobiographic assay**” in 68<sup>th</sup> IPC held at Visakhapatnam.
3. Presented a Poster on “**Evaluation of Antioxidant and Anti proliferative potential of Cruciferous vegetables**” in International Conference on “Biochemistry, Nutrition & Pharmacy in Human Welfare: Recent Trends and Future Challenges(ICBNP-2015)” organized by the Department of Biochemistry, Osmania University, Hyderabad, T.S.(3<sup>rd</sup> -5<sup>th</sup> September 2015)
4. Presented a paper on “**Antioxidant potential of vegetable oils**”, in UGC sponsored national conference organized by the Department of Zoology and Department of Food and nutrition, OU College for Women, Koti, Hyderabad(10<sup>th</sup> and 11<sup>th</sup> April 2014)
5. Presented a paper on “**Neuroprotective role of Wheatgrass powder in Experimental Diabetic Neuropathy**” in scientific session in ICECPS-2014 Organized by CSIR-Indian Institute of Chemical Technology, Hyderabad and Science Foundation, Bangalore (15-17<sup>th</sup> October 2014).
6. Poster Presentation on “**Pathology of Cancer**” in National Seminar held at Siddhartha College of Pharmacy, Vijayawada in the Year 1998.

### **FDPs/STTC and Hand on Workshops Attended and Completed**

1. FDP on **Effective use of ICT Tools in Teaching - Learning(Moodle Platform)** by Modern college of Pharmacy, Pune association and APTI from 8-6-20 to 7-7 - 20.

2. **"Hands on Workshop on Pharmacogenomics"** at ICMR-CAR, Department of Haematology, CMC, Vellore from 5-11-19 to 8-11-2019
3. **"Teaching and Learning of Molecular Biology and Enzymology through Hands-on Experience"** at Dept of Biotechnology, NIT, Warangal from 18-23 September 2018
4. Attended DBT sponsored 2 Weeks(21<sup>st</sup> Nov-3<sup>rd</sup> December) Teacher/Researcher Short Term Training Course(STTC) on **"Innovative Concepts and New Dimensions in Pharmaceutical Sciences(ICDNP-2016)"** organized by MRCP, Hyderabad.
5. Hands on Workshop on **"Applications in advanced Analytical techniques in Pharmaceutical Sciences and Nanotechnology"** from 16-09-2016 to 17-09-2016 at JNTU Hyderabad.
6. Attended FDP on **"Effective Methods of Teaching for Nursing/Biotechnology/Pharma faculty"** Organized by Institute of Public Enterprise (IPE) Hyderabad on 1<sup>6th</sup> September 2012.

### **Courses Completed**

1. **"Health Research Fundamentals"** by SWAYAM.
2. **FDP101X Foundation program in ICT for Education**
3. **FDP201X Pedagogy for Online and Blended Teaching and Learning by IIT Bombay X** from 03/10/2017 to 7/9/2017 & 14/9/2017 to 12/11/2017
4. **ET702X: Designing Learner-Centric MOOC (02/8/2018-06/09/2018)** by IIT Bombay X

### Workshops/ Seminars Attended

<b>Date</b>	<b>Title- Workshop/seminar/conference/webinars</b>	<b>Organised by</b>
1-5-20	Neurodegenerative Disease- Challenges And Excitements	Mizoram University,Aizawl, India
23-5-2020	Understanding practice school and it's concept in UG Pharmacy education	Pharmacy council of India in association with Rajiv Gandhi University of Health Sciences,Bengaluru and JSS Academy of higher education and Research, Mysuru
08.06.2020	“THE CRUX ON ACADEMIC WRITING”	Department of Library, Bharathi Women's College (Autonomous), Chennai
30/5/20- 31/5/20	Design of Experiments	Vignan College in collaberation with APTI
23-5-2020	Understanding practice school and it's concept in UG Pharmacy education	PCI in association with JSS College of Pharmacy
30-08-2019	Two Day Workshop on "Human Genome Project in Drug Discovery and Development"	RBVRR Women's College of Pharmacy, Hyderabad, Telangana State
29-03- 2019	Three Day Workshop on "Recent Trends in Formulation Design & Bioanalytical Estimations"	RBVRR Women's College of Pharmacy, Hyderabad, Telangana State
21,22-7- 2017	Recent advances in Pharmaceutical Industry and Drug Development	Centre of Pharmaceutical Sciences,IST,JNTUH,Hyderabad
01-09-2017	National seminar on ”COMPUTATIONAL CHEMISTRY IN DRUG DESIGN”	R. B. V. R. R. Women's College of Pharmacy, Barkatpura, Hyderabad.
17-2- 2017.	National Seminar on “Hyphenated Techniques in Pharmaceutical Research”	RBVRR Women's college of pharmacy

26-07-2061	”Pharmacogenomics and Pharmacoconomics in Health Care System”	RBVRR Women's college of pharmacy
26-09- 2015	3rd Indo-US conference on 'Nanotechnology and Medicine:Challenges and Future Opportunities	APP TS branch in Association with RBVRR Women's College of Pharmacy
9-7-2015 to 10-7-2015	Personalized medicine approaches in drug discovery and development”	R. B. V. R. R. Women’s College of Pharmacy, Barkatpura, Hyderabad
December 2012	Workshop on Intellectual Property Rights	Osmania University,Hyderabad
22, 23-07-2011	National Seminar on Current Research Trends in Pharmaceutical Sciences	CPS, IST, JNTU, Hyderabad
8,9-04- 2011	Workshop on “Recent Advances in Pharmaceutical Research”,	R. B. V. R. R. Women’s College of Pharmacy, Barkatpura, and Hyderabad

### **Membership in Professional Societies**

1. Life member in APTI –AP/LM 486.
2. Life member in IPS - LA-439

Date:

Signature

Place:.

