



BIODATA

1. Name: JAYESH KURIAKOSE
2. Designation: Assistant Professor, Department of Biotechnology, The Cochin College, Kochi-2
3. Essential Qualification: M. Sc.
4. Additional Qualification: Ph.D
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6. Required Official Email (@thecocheincollege.edu.in) : jayesh@thecocheincollege.edu.in
7. Contact Number: 9447120534
8. Areas of Research Interest:
 - a) *Molecular mechanism of oxidative stress, inflammation and cancer*
 - b) *Anticancer properties of natural compounds*
 - c) *Neutraceuticals and epigenetic changes*
9. Contributions to Teaching: Engaged in teaching the subject of Biotechnology for 14 years altogether at under graduate and post graduate level.
10. Book chapter Published:

Co-author of the book chapter "*Health Benefits of Clerodendrum infortunatumL.:Scope, Secondary Metabolites and Bioactives*". R.L Helen, K.Jayesh, S.Syama and M.S. Latha. In "Plant secondary metabolites for human health, extraction of bioactive compounds"2019. Apple Academic Press.
11. Research Publications in International Journals:
 1. Vysakh A, **Jayesh K** and Latha M.S. *Rotula aquatica* Lour. mitigates oxidative stress and inflammation in acute pyelonephritic rats. *Archives of Physiology and Biochemistry*

(IARP). Taylor Francis, UK. Print ISSN: 1381-3455, Online ISSN: 1744-4160. (**Impact Factor:2.1110**) (In Press).

2. **Jayesh K**, Helen LR, Vysakh A, Binil E, Latha MS. Protective Role of *Terminalia bellirica* (Gaertn.) Roxb Fruits Against CCl₄ Induced Oxidative Stress and Liver Injury in Rodent Model. *Indian Journal of Clinical Biochemistry*. 2019 Apr 1;34(2):155-63. ISSN:0970-1915(Print), ISSN: 0974-0422 (electronic version) (**Springer**).
3. Vysakh A, Midhun SJ, **Jayesh K**, Jyothis M, Latha MS. Studies on biofilm formation and virulence factors associated with uropathogenic *Escherichia coli* isolated from patient with acute pyelonephritis. *Pathophysiology*. 2018 Dec 1;25(4):381-7. (ISSN: 0928-4680) (**Impact Factor: 1.277**) (**Elsevier**).
4. Vysakh A, Abhilash S, **Kuriakose J**, Midhun SJ, Jyothis M, Latha MS. Protective effect of *Rotula aquatica* Lour against gentamicin induced oxidative stress and nephrotoxicity in Wistar rats. *Biomedicine & Pharmacotherapy*. 2018 Oct 1;106:1188-94. ISSN: 0753-3322 (**Impact Factor: 3.743**) (**Elsevier**).
5. Lal Raisa Helen, **Jayesh Kuriakose** and M S Latha. Bioassay guided fractionation and quantification of total phenols from the aqueous acetone root bark extract of *Clerodendrum infortunatum* L. *International Journal of Pharmacy and Biological Sciences*. Vol.8, issue 3, Jul-Sep 2018. ISSN: 2321-3272 (Print), ISSN: 2230-7605 (Online).
6. Vysakh A, **Jayesh K**, Helen LR, Jyothis M, Latha MS. Acute oral toxicity and anti-inflammatory evaluation of methanolic extract of *Rotula aquatica* roots in Wistar rats. *Journal of Ayurveda and integrative medicine*. 2018 Aug 16. ISSN: 0975-9476 (print); 0976-2809 (web). (**Elsevier**).
7. **Jayesh K**, Karishma R, Vysakh A, Gopika P, Latha MS. *Terminalia bellirica* (Gaertn.) Roxb fruit exerts anti-inflammatory effect via regulating arachidonic acid pathway and pro-inflammatory cytokines in lipopolysaccharide-induced RAW 264.7 macrophages. *Inflammopharmacology*. 2018 Jul 12:1-10. ISSN: 0925-4692 (Print) 1568-5608 (Online) (Impact factor: 3.838). (**Springer**).
8. Helen LR, **Jayesh K**, Vysakh A, Latha MS. Polyphenolic content correlates with anti-inflammatory activity of root bark extract from *Clerodendrum infortunatum* L. and inhibit

carrageenan induced paw edema. *J Pharmacogn Phytochem.* 2018;7(2):2032-41. ISSN Print: 2349-8234, ISSN Online: 2278-4136.

9. Vysakh A, Gopika P, **Jayesh K**, Karishma R, Latha MS. *Rotula aquatica* Lour attenuates secretion of proinflammatory mediators and cytokines in lipopolysaccharide-induced inflammatory responses in murine RAW 264.7 macrophages. *Inflammopharmacology.* 2018 Feb 1;26(1):29-38. ISSN: 0925-4692 (Print) 1568-5608 (Online) (Impact factor: 3.838). **(Springer)**.
10. Vysakh A, Suma D, **Jayesh K**, Jyothis M, Latha MS. The influence of tissue antioxidant enzymes and inflammatory cascade in pathology of cystitis: An experimental rat model. *Microbial pathogenesis.* 2017 Dec 1;113:102-6. (ISSN: 0882-4010) (Impact factor: 2.581). **(Elsevier)**.
11. **Jayesh K**, Helen LR, Vysakh A, Binil E, Latha MS. Ethyl acetate fraction of *Terminalia bellirica* (Gaertn.) Roxb. fruits inhibits proinflammatory mediators via down regulating nuclear factor- κ B in LPS stimulated Raw 264.7 cells. *Biomedicine & Pharmacotherapy.* 2017 Nov 1;95:1654-60. ISSN: 0753-3322 **(Impact Factor: 3.743) (Elsevier)**.
12. **Kuriakose J**, Raisa HL, Vysakh A, Eldhose B, Latha MS. *Terminalia bellirica* (Gaertn.) Roxb. fruit mitigates CCl₄ induced oxidative stress and hepatotoxicity in rats. *Biomedicine & Pharmacotherapy.* 2017 Sep 1;93:327-33. ISSN: 0753-3322 **(Impact Factor: 3.743) (Elsevier)**.
13. **Kuriakose Jayesh** , Lal Raisa Helen , A Vysakh , Eldhose Binil and M. S. Latha. Cytotoxicity evaluation of bioactive fraction from *Terminalia bellirica*(gaertn.)Roxb. fruits in L929 cells. *International Journal of Advanced Research.* 2017 Sep 5: 9: 120-26. ISSN: 2320-5407.
14. Vysakh A, Raji NR, Suma D, **Jayesh K**, Jyothis M, Latha MS. Role of antioxidant defence, renal toxicity markers and inflammatory cascade in disease progression of acute pyelonephritis in experimental rat model. *Microbial pathogenesis.* 2017 Aug 1;109:189-94. (ISSN: 0882-4010) (Impact factor: 2.581). **(Elsevier)**.
15. **Jayesh K**, Helen LR, Vysakh A, Binil E, Latha MS. In vivo toxicity evaluation of aqueous acetone extract of *Terminalia bellirica* (Gaertn.) Roxb. fruit. *Regulatory Toxicology and Pharmacology.* 2017 Jun 1;86:349-55. ISSN: 0273-2300 **(Impact Factor: 2.996). (Elsevier)**.

16. Eldhose B, Notario V, **Kuriakose J**, Latha MS. Curative effect of *Plumbago indica* root extract on thioacetamide induced hepatotoxicity in experimental rats. *International Journal of Phytomedicine*. 2017 May 9;1: 138-143. ISSN 0975-0185.
17. Helen LR, **Jayesh K**, Latha MS. Safety assessment of aqueous acetone extract of *Clerodendrum infortunatum* L. in Wistar rats. *Comparative Clinical Pathology*. 2017 Mar 1;26(2):369-75. ISSN: 1618-5641 (Print) 1618-565X (Online) (Impact factor: 0.338).
(Springer)
18. **Kuriakose Jayesh**, Lal Raisa Helen, Eldhose Binil and Latha MS. Comparative Antioxidant Properties of *Terminalia bellirica* (Gaertn.)Roxb. Fruit Extract: A Component of Ayurvedic Formulation ‘Triphala’. *Ijppr.Human*, 2016; Vol. 7 (4): 310-320.
19. Thejas K Mathew, Aswathy P. G, Surya N. K, Metilda Honey and **Jayesh Kuriakose**. Study on disinfectant potential of lemon grass oil against common pathogens. *Int. J. of Adv. Res.* **2016: 4** (7). 675-679. ISSN 2320-5407.
20. Eldhose B, Notario V, **Kuriakose J**, Latha MS. Hepatoprotective effect of *Plumbago indica* root extract on thioacetamide-induced liver damage in rats. *Journal of Pharmacognosy and Phytochemistry*. 2015 Jul 1;4(2):97-101. ISSN Print: 2349-8234, ISSN Online: 2278-4136.

13. Research Publications in National Journals

Nalini Ramamurthy and **Jayesh Kuriakose**. Antiviral effect of *Scoparia dulcis* against *Coxsackie B1-B6* Virus. Proceedings, 23rd Swadeshi Science Congress, November 2013. pp 592-97.

14. Participation in Seminars/ Conferences

Poster presented in the National seminar “Recent Trends in Applied Life Sciences” at SBS, M.G University, Kottayam. 2017

Presented a paper in Swadeshi Science Congress 2016

15. Research Projects:

Co-investigator of UGC sponsored minor research project “ **Phytochemical Characterization of *Cipadessa baccifera* –A tribal medicinal plant from Western Ghats**”

16. About Self:

I have been involved in teaching and research for the last 15 years. I have been working as assistant Professor in Biotechnology at Cochin College, Kochi-2 since January 2011. I have completed my Ph.D in Biotechnology from School of Biosciences, Mahatma Gandhi University, Kottayam in 2019, after availing teacher fellowship under UGC-FDP scheme.