

POSTER /PAPER PRESENTATION

- Presented scientific poster at **International Seminar on Herbal Drug Research, JSS College of Pharmacy, Ooty, Tamilnadu.**“**Microencapsulation of Probiotic Bacteria in Xanthan-Chitosan Polyelectrolyte gel**” on 04-05 December 2009.
- Research paper publish in **International Journal of Innovative Pharmaceutical Sciences and Research.**(May-June 2016,vol.4(5),518-536) “**Formulation And Evaluation of Novel Drug Delivery System Using Kondagogu Gum as Carrier**”
- Research paper publish in [International Journal of Current Pharmaceutical Research](#). **June-july2016,vol.8(3)**,Article (Ref No- IJCPR- 1028) entitled. “**Modified Kondagogu Gum as Matrix Forming Material for Sustained- Release.**”
- Research paper publish in**Journal of Drug Delivery & Therapeutics. 2018; 8(5-s):271-276.**“**Formulation Development Of Acyclovir Microsphere Using Novel Natural Polymer**”

PATENTS

- Indian Patent Published on Title “**Thiosemicarbazone Quinoxaline Derivatives Substituted With Aromatic Amino Acids and Coumarin Moieties**”Date Of Publication **18/06/2021.**
- Australian Patent Published on Title “**Synthesis And Assessment Of Anticataract Activity Of Metal-Nsaid Complex In HyperinsulinemicCataract**”(03/09/2021)
- Australian Patent granted for 8 years on Title “**Synthesis And Assessment Of Anticataract Activity Of Metal-Nsaid Complex In HyperinsulinemicCataract**(Date **11/05/2022)**)



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Government of India

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Application Details

APPLICATION NUMBER	202111035427
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DATE OF FILING	05/08/2021
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TITLE OF INVENTION	ANTICATARACT ACTIVITY OF SYNTHETIC ASPIRIN METAL COMPLEX WITH ZINC IN HYPERINSULINEMIC CATARACT INDUCED BY OBESITY.
FIELD OF INVENTION	FOOD
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PRIORITY DATE	
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1/2

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Intellectual Property India

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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(54) Title of the invention : THIOSEMICARBAZONE QUINOXALINE DERIVATIVES SUBSTITUTED WITH AROMATIC AMINO ACIDS AND COUMARIN MOIETIES

(51) International classification	:C07D0265360000, C07D0405120000, A01N0043160000, C07K0014435000, C07K0016060000	(71)Name of Applicant : 1)Dr. Girendra Kumar Gautam Address of Applicant :Director, Shri Ram College of Pharmacy, Parikrama Marg, Muzaffarnagar, (U.P.), Pincode: 251001. Uttar Pradesh India 2)Mr. Bipin Bihari 3)Dr. Akash Ved 4)Dr. Manoj Kumar Mishra 5)Dr. Pankaj Baboo 6)Dr. Satendra Kumar 7)Dr. Priyanka Singh 8)Mr. Neeraj Singh 9)Mr. Mayank Tiwari 10)Mr. Braj Nandan Kishor
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Girendra Kumar Gautam
(33) Name of priority country	:NA	2)Mr. Bipin Bihari
(86) International Application No	:NA	3)Dr. Akash Ved
Filing Date	:NA	4)Dr. Manoj Kumar Mishra
(87) International Publication No	: NA	5)Dr. Pankaj Baboo
(61) Patent of Addition to Application	:NA	6)Dr. Satendra Kumar
Number	:NA	7)Dr. Priyanka Singh
Filing Date	:NA	8)Mr. Neeraj Singh
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(57) Abstract :

The present invention relates to the synthesis of a series of novel thiosemicarbazone quinoxaline derivatives substituted with different aromatic amino acids and coumarin moieties and their antimicrobial evaluation against various microbial strains with molecular docking studies. Lead molecule (1E, 4E)-1-(7-chloro-3-isopropylquinoxalin-2(1H)-ylidene) thiosemicarbazide was synthesized and condensed with various aromatic amino acids and coumarin moiety to synthesized desired derivatives Va-Ve. All compounds showed significant antimicrobial activity, especially compound Va and Ve was found to exhibited excellent activity against Gram negative Gram positivebacterial and fungal strains at MIC 0.09 µg/ml, 0.39 µg/ml, and 0.78 µg/ml respectively.

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