

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511094300 A

(19) INDIA

(22) Date of filing of Application :30/09/2025

(43) Publication Date : 14/11/2025

(54) Title of the invention : METHOTREXATE LOADED CARBON DOTS AND GREEN SYNTHESIS THEREOF

(51) International classification	:A61P0035000000, C09K0011650000, A61K0031519000, C01B0032150000, A61K0036899000	(71)Name of Applicant : 1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Punjab India 2)Chitkara Innovation Incubator Foundation
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(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract Methotrexate Loaded Carbon Dots and Green synthesis thereof The present invention relates a green synthesis method for preparing carbon dots (CDs) from bamboo leaves, surface-passivated with PEG-4000, and subsequently loaded with methotrexate (MTX) for use in cancer therapy. The eco-friendly process avoids harmful chemicals, reduces toxicity, and offers potential for cost-effective, biocompatible cancer treatment and enhances activity of methotrexate. Reference Fig 1
No. of Pages : 21 No. of Claims : 10