

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 47/2023

ISSUE NO. 47/2023

शुक्रवार

FRIDAY

दिनांक: 24/11/2023

DATE: 24/11/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : UNVEILING THE BENEFITS OF SIMVASTATIN AND EZETIMIBE COMBINATION IN CARDIOVASCULAR RISK REDUCTION

<p>(51) International classification :A61P0003060000, A61K0031397000, A61P0009100000, A61K0045060000, A61P0009000000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Ms. Anusree Basu Address of Applicant :Assistant Professor, BCDA College of Pharmacy &Technology, 78, Jessore Road, Hridaypur, Barasat, Kolkata, Pin Code:700127 ---</p> <p>2)Mr. Subhadas Chatterjee</p> <p>3)Mrs. Piyali Khamkat</p> <p>4)Dr. Vivek Barik</p> <p>5)Mr. Diptendu Bhowmik</p> <p>6)Ms. Shreetama Sarkar</p> <p>7)Ms. Mrinmoyee Bhowmik</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Ms. Anusree Basu Address of Applicant :Assistant Professor, BCDA College of Pharmacy &Technology, 78, Jessore Road, Hridaypur, Barasat, Kolkata, Pin Code:700127 ---</p> <p>2)Mr. Subhadas Chatterjee Address of Applicant :Assistant Professor, Sanaka Educational Trust's Group of Institutions, Malandighi, Durgapur West Bengal, Pin Code: 713212 -----</p> <p>3)Mrs. Piyali Khamkat Address of Applicant :Associate Professor, Department of Pharmaceutical Technology, Brainware University, Ramkrishnapur Road, Near Jagadighata Market, Barasat, West Bengal, Pin Code: 700125 -----</p> <p>4)Dr. Vivek Barik Address of Applicant :Associate Professor, Department of Pharmaceutical Technology, Brainware University, Ramkrishnapur Road, Near Jagadighata Market, Barasat, West Bengal, Pin Code: 700125 -----</p> <p>5)Mr. Diptendu Bhowmik Address of Applicant :Associate Professor, Mata Gujri College of Pharmacy, Purab Pali Road, Kishanganj, Bihar, Pin Code: 855107 -----</p> <p>6)Ms. Shreetama Sarkar Address of Applicant :Assistant Professor, SSKM College Of Pharmacy, Uchheygar , Purba Vidyadharpur, Jagaddal, 24 Parganas (N), Kolkata, West Bengal, Pin Code 743127 -----</p> <p>7)Ms. Mrinmoyee Bhowmik Address of Applicant :Assistant Professor, BCDA College of Pharmacy & Technology, 78, Jessore Road Hridaypur(S), Barasat, Kolkata, Pin Code: 700127 --</p>
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(57) Abstract :

The present invention relates to a method for enhancing cholesterol control in individuals at risk of cardiovascular diseases by administering a combination of Simvastatin and Ezetimibe. This innovative approach harnesses the synergistic effects of these two medications, which work in concert to simultaneously reduce both endogenous cholesterol production and exogenous cholesterol absorption. By inhibiting HMG-CoA reductase in the liver and NPC1L1 protein in the small intestine, Simvastatin and Ezetimibe comprehensively lower LDL cholesterol levels, reducing the risk of cardiovascular events such as heart attacks and strokes. The invention also includes personalized dosing and monitoring, offering a flexible and effective treatment strategy for patients with varying risk profiles. Additionally, it is particularly valuable for managing familial hypercholesterolemia. This combination therapy holds promise for improving cardiovascular health and patient outcomes.

No. of Pages : 13 No. of Claims : 7