

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 28/2024
ISSUE NO. 28/2024

शुक्रवार
FRIDAY

दिनांक: 12/07/2024
DATE: 12/07/2024

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : EVALUATION OF THE POSSIBLE MECHANISM OF ACTION OF PRUNUS PERSICA FOR NOOTROPIC ACTIVITY

(51) International classification :A61P0025000000, A61P0025280000, A23L0033105000, A61K0036230000, A61K0036736000

(86) International Application No :NA
 Filing Date :NA

(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

(71)Name of Applicant :
1)Ms. Tahira Sultan
 Address of Applicant :Assistant Professor, School of Pharmaceutical sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 -----
2)Mr. Vidhan Chand Bala
3)Mrs. Richa Saxena
4)Ms. Srishti Goyal
5)Dr. Sushil Kumar
6)Ms. Sakshi Singh
7)Mr. Amit Kumar
8)Ms. Sneha Rawat
9)Apoorv Rastogi
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Ms. Tahira Sultan
 Address of Applicant :Assistant Professor, School of Pharmaceutical sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 -----
2)Mr. Vidhan Chand Bala
 Address of Applicant :Assistant Professor, School of Pharmaceutical sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 -----
3)Mrs. Richa Saxena
 Address of Applicant :Assistant Professor, School of Pharmaceutical sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 -----
4)Ms. Srishti Goyal
 Address of Applicant :Assistant Professor, School of Pharmaceutical sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 -----
5)Dr. Sushil Kumar
 Address of Applicant :Professor, School of Pharmaceutical sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 -----
6)Ms. Sakshi Singh
 Address of Applicant :Assistant Professor, Shree Satya College of Higher Education, Moradabad, Uttar Pradesh, Pin Code: 244102. -----
7)Mr. Amit Kumar
 Address of Applicant :Assistant Professor, MIT College of Pharmacy, MIT Campus, (Affiliated to Dr. A.P.J. Abdul Kalam Technical University), Ram Ganga Vihar Phase-II, Moradabad, Uttar Pradesh, Pin Code: 244001 -----
8)Ms. Sneha Rawat
 Address of Applicant :Assistant Professor, MIT College of Pharmacy, MIT Campus, (Affiliated to Dr. A.P.J. Abdul Kalam Technical University), Ram Ganga Vihar Phase-II, Moradabad, Uttar Pradesh, Pin Code: 244001 -----
9)Apoorv Rastogi
 Address of Applicant :Assistant professor, Sahara Degree College, Janunagar kemri, milak, Rampur, Uttar Pradesh, Pin Code: 243701 -----

(57) Abstract :
 The present invention relates to the pharmacological potential of Prunus persica leaf extracts, focusing on their phytochemical composition and therapeutic effects. Extracts were prepared using a novel ethanol maceration method, yielding hydroethanolic extracts rich in flavonoids, glycosides, alkaloids, and saponins. Phytochemical analysis confirmed the presence of these compounds, suggesting antioxidant and neuroprotective properties. Acute toxicity studies demonstrated safety at high doses in animal models. Behavioral tests, including the elevated plus maze and Morris water maze, revealed enhanced cognitive performance following extract administration. Additionally, the extracts showed efficacy in mitigating lithium-induced head twitches and sodium nitrite-induced respiratory arrest. These findings highlight the potential of Prunus persica leaf extracts as neuroprotective agents with therapeutic implications for cognitive disorders.

No. of Pages : 19 No. of Claims : 3