# Vidarbha Youth Welfare Society's INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH

Borgaon (Meghe), Wardha (M.S.)

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# Academic year 2023-24

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## CERTIFICATE

This is to certify that the investigation described in this dissertation entitled "Evaluation of antiepileptic activity of *Desmodium heterocarpon* plant extract in experimental animals" submitted in partial fulfillment of the requirement for the degree of Master of Pharmacy in Pharmacology during the academic year 2023-2024, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur were carried out in the laboratories of the Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha, by Ms. Anshal M. Sahare under the guidance and supervision of Dr. R. O. Ganjiwale, Associate Professor, Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha.

The dissertation is now ready for examination.

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#### CERTIFICATE

This is to certify that the investigation described in this dissertation entitled "Hematological evaluation of anthocephalus cadamba bark extract in Phenylhydrazine induced anemia in laboratory animals" submitted in partial fulfillment of the requirement for the degree of Master of Pharmacy in Pharmacology during the academic year 2023-2024, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur were carried out in the laboratories of the Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha, by Ms. Darshana A. Shambharkar under the guidance and supervision of Dr. R. O. Ganjiwale Associate Professor Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha.

The dissertation is now ready for examination.

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This is to certify that the investigation described in this dissertation entitled "Effect of *Akebia Quinata* Plant Extract on Cognitive Impairment in Rats" submitted in partial fulfillment of the requirement for the degree of Master of Pharmacy in Pharmacology during the academic year 2023-24, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur were carried out in the laboratories of the Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha, by Ms. Namrata M. Waghmare under the guidance and supervision of Dr. R. O. Ganjiwale, Associate Professor. Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha.

The dissertation is now ready for examination.

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#### CERTIFICATE

This is to certify that the investigation described in this dissertation entitled "Evaluation of anti-gout activity of *Miliusa velutina* bark extract in laboratory animals" submitted in Partial fulfillment of the requirement for the degree of Master of Pharmacy in pharmacology during the academic year 2023-24, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur were carried out in the laboratories of the Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha, by Ms. Pragati G. Zalwade under my guidance and supervision

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This is to certify that the investigation described in this dissertation entitled "Evaluation of antipsychotic activity of *Enicostemma littorale* in experimental animals" submitted in partial fulfillment of the requirement for the degree of Master of Pharmacy in Pharmacology during the academic year 2023-24, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur were carried out in the laboratories of the Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha, by Ms. Riya N. Tiwari under the guidance and supervision of Dr. R. O. Ganjiwale Associate Professor. Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha.

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This is to certify that the investigation described in this dissertation entitled "Evaluation of hepatoprotective activity of *lycopus virginicus* on rats" submitted in partial fulfillment of the requirement for the degree of Master of Pharmacy in Pharmacology during the academic year 2023-24, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur were carried out in the laboratories of the Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha, by Ms. Rujuta N. Shinde under the guidance and supervision of Dr. R. O Ganjiwale Assistant Professor. Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha.

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## CERTIFICATE

This is to certify that the investigation described in this dissertation entitled "Evaluation of Antihypertensive Activity of *Alangium Salviifolium* in rats" submitted in partial fulfillment of the requirement for the degree of Master of Pharmacy in Pharmacology during the academic year 2023-24, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur were carried out in the laboratories of the Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha, by Ms. Sakshi N. Nagre under the guidance and supervision of Ms. Sadhana P. Gautam Assistant Professor, Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha.

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# CERTIFICATE

This is to certify that the investigation described in this dissertation entitled "Effects of *Filipendula Ulmaria* extract on Freund's Complete Adjuvant Induced Arthritis in Rats" submitted in partial fulfillment of the requirement for the degree of Master of Pharmacy in Pharmacology during the academic year 2023-24, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur were carried out in the laboratories of the Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha, by Ms. Shamal J. Bajad under the guidance and supervision of Dr. R. O. Ganjiwale Associate Professor. Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha.

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#### CERTIFICATE

This is to certify that the investigation described in this dissertation entitled "Evaluation of Antiepileptic Activity of Akebia Quinata in Experimental Animals" submitted in partial fulfillment of the requirement for the degree of Master of Pharmacy in Pharmacology during the academic year 2023-24, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur were carried out in the laboratories of the Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha, by Mr. Anurag A. Tijare under the guidance and supervision of Ms. Sadhana P. Gautam Assistant Professor. Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha.

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This is to certify that the investigation described in this dissertation entitled "Evaluation of anti-depressant like activity of *Dalbergia Sympathetica* plant extract in laboratory animals" submitted in Partial fulfillment of the requirement for the degree of Master of Pharmacy in pharmacology during the academic year 2023-24, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur were carried out in the laboratories of the Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha, by Mr. Dhiraj V. Yawale under my guidance and supervision.

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This is to certify that the investigation described in this dissertation entitled "Evaluation of Antiasthmatic Activity of Leaves of Abelmoschus Esculentus Linn. (Okra)" submitted in partial fulfillment of the requirement for the degree of Master of Pharmacy in Pharmacology during the academic year 2023-24, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur were carried out in the laboratories of the Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha, by Mr. Irfan M. Sayyad under the guidance and supervision of Mr. Abhiram J. Deshmukh Assistant Professor. Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha.

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This is to certify that the investigation described in this dissertation entitled "Assessment of antiepileptic potential of Commiphora Opobalsamum wood extract in experimental animal models" submitted in partial fulfillment of the requirement for the degree of Master of Pharmacy in Pharmacology during the academic year 2023-24, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur were carried out in the laboratories of the Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha. by Mr. Manish G. Wanjari under the guidance supervision and of Ms. Sadhana P. Gautam Assistant Professor. Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha.

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This is to certify that the investigation described in this dissertation entitled "Effect of *Paoenia officinalis* roots extract against chemically induced Alzheimer's like disease in rats" submitted in partial fulfillment of the requirement for the degree of Master of Pharmacy in Pharmacology during the academic year 2023-24, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur were carried out in the laboratories of the Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha, by Mr. Mihir G. Nerkar under the guidance and supervision of Ms. Sadhana P. Gautam, Assistant Professor, Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha.

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This is to certify that the investigation described in this dissertation entitled "Evaluation of Antihypertensive Activity of *Sida Acuta* in rats" submitted in partial fulfillment of the requirement for the degree of Master of Pharmacy in Pharmacology during the academic year 2023-24, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur were carried out in the laboratories of the Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha, by **Mr. Tejas D. Pimple** under the guidance and supervision of **Ms. Sadhana P. Gautam** Assistant Professor. Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha.

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This is to certify that the investigation described in this dissertation entitled "Evaluation of Fertility Promoting Activity of Minusops Elengi In Female Rats" submitted in partial fulfillment of the requirement for the degree of Master of Pharmacy in Pharmacology during the academic year 2023-24, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur were carried out in the laboratories of the Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha, by Mr. Vinay V. Sarode under the guidance and supervision of Ms. Sadhana P. Gautam, Assistant Professor, Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha.

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