

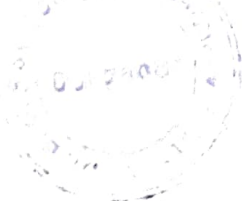


ACADEMIC YEAR: 2022-23

**LIST OF B. PHARM. (PROGRAM CODE-019) STUDENTS
UNDERTAKING PROJECT WORK**

| SL. No. | University Roll No. | Name | Title of Project | Guide |
|---------|---------------------|-------------------------|---|-------|
| 1 | 18901918068 | Priya Ray | 2D-QSAR Analysis on C-Aryl Glycoside Derivatives as SGLT2 inhibitors Using Open-Source Software tools | AKH |
| 2 | 18901918097 | Debojyoti Sarkar | Lab Scale Development of the formulation of <i>Shigella Dysenteriae</i> vaccine | SC |
| 3 | 18901919001 | Anirban Ghosh | Immobilization of Plastic Degrading Microorganism on Polymeric Nanoparticle for Efficient Plastic Degradation | SK |
| 4 | 18901919002 | Soham Dutta | Improvement of Solubility and Dissolution of Aceclofenac by Solid Dispersion Technique | MD |
| 5 | 18901919003 | Debam Ray | Pacemaker | SSSM |
| 6 | 18901919004 | Sucheta Karmakar | in-Vitro Evaluation of Certain Repurposed and Synthetic Heterocyclic Compounds Against Protein Fibrillation | SVB |
| 7 | 18901919005 | Anita Kumbhakar | Pharmaceutical Digital Marketing | TR |
| 8 | 18901919006 | Arnab Pal | Improvement of Solubility and Dissolution of Aceclofenac by Solid Dispersion Technique | SNC |
| 9 | 18901919007 | Prodipto Das | Synthesis and Characterization of Low Methoxyl-Pectin Tamarind Gum Based Composite Films | HB |
| 10 | 18901919008 | Nikita Dutta | Transdermal Drug Delivery System: A Review | SG |
| 11 | 18901919009 | Swaraj Nayek | Gene Therapy for Obesity | SNM |
| 12 | 18901919010 | Mehedi Hasan | A Mini Survey of Daily Sales of Drug formulation in A Local Pradhan Mantri Bhartiya Jan Aushadhi Kendra at Durgapur | SBR |
| 13 | 18901919011 | Sudin Nayek | Comparative in-Vitro Evaluation Studies of Marketed Brand & Generic Ibuprofen Tablets | WZH |
| 14 | 18901919012 | Debabrata Chattopadhyay | Phytochemical Screening and in-Vitro Antioxidant Evaluation of Different | YND |

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Dr. Meghnad Saha Sarani, Bidhannagar, Durgapur-713206, West Bengal (India)

| | | | | |
|----|-------------|------------------|--|-----|
| 33 | 18901919033 | Rudra Das | A Rapid and Efficient DNA Extraction Protocol from Fresh Rodent Blood Samples | SDT |
| 34 | 18901919034 | Ankita Karmakar | Isolation and Chemical Characterization of The Fractions of Methanolic Extract of Purified Roots of <i>Plumbago Zeylanica</i> | PSP |
| 35 | 18901919035 | Souvik Kower | Application of Common Metals as Nanocarriers | RCG |
| 36 | 18901919036 | Avas Pal | Antimicrobial Resistance | SHB |
| 37 | 18901919037 | Gourab Manna | Phytochemical Screening and in-vitro Antioxidant Evaluation of Different Extracts of Purified Roots of <i>Plumbago Zeylanica</i> | YND |
| 38 | 18901919038 | Adarsha Ganguly | 2D QSAR Modelling on Triazole Containing Derivatives as HDAC inhibitor Using Open-Source tools | AKH |
| 39 | 18901919039 | Avijit Ruidas | Review on Polymers in Pharmaceutical Drug Delivery System | SPD |
| 40 | 18901919040 | Aniket Das | Screening of Anti-inflammatory Activity Using Oyster Meat Extract | JM |
| 41 | 18901919041 | Spurtika Jana | A Review-Can Sambar Protect Colon Cancer? | AC |
| 42 | 18901919042 | Debanwita Laha | Isolation and Chemical Characterization of The Fractions of Methanolic Extract of Purified Roots of <i>Plumbago Zeylanica</i> | PSP |
| 43 | 18901919043 | Subhadip Manna | Formulation of Paracetamol & Its Evaluation | SG |
| 44 | 18901919044 | Debapriya Dey | Synthesis of Antibacterial Coumarins | SKM |
| 45 | 18901919045 | Souvik Ghosh | Entrepreneurship Development | US |
| 46 | 18901919046 | Snehasis Koner | Phytochemical Screening and in-vitro Antioxidant Evaluation of Different Extracts of Purified Roots of <i>Plumbago Zeylanica</i> | YND |
| 47 | 18901919047 | Dinesh Pradhan | Investigation on Novel Drug Target on Antihypertensive Therapy | AM |
| 48 | 18901919048 | Sk Dilshad Anwar | Screening of Anti-inflammatory Activity Using Oyster Meat Extract | JM |
| 49 | 18901919049 | Arnab Dey | Development and Validation of UV-Spectrophotometric Method for Simultaneous Estimation of Gliclazide & Metformin in Tablet Dosage form | MND |
| 50 | 18901919050 | Sourav Paul | Antimicrobial Resistance: A Review | SHB |

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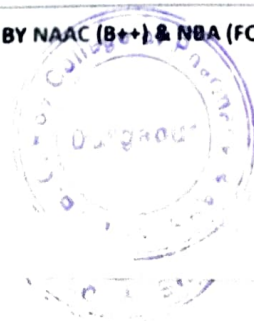
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| | | | | |
|----|-------------|----------------------|---|-----|
| | | | Extracts of Purified Roots of <i>Plumbago Zeylanica</i> | |
| 15 | 18901919013 | Dipen Rana | A Review on Nanoparticles in Cancer Vaccine | TR |
| 16 | 18901919014 | Suman Mondal | Comparative in-Vitro Evaluation Studies of Marketed Brand & Generic Ibuprofen Tablets | WZH |
| 17 | 18901919015 | Debarghya Karforma | Transdermal insulin Drug Delivery Emphasizing on Microneedle Delivery System | SSM |
| 18 | 18901919016 | Aryadip Dasgupta | Synthesis of Antibacterial Coumarins | SKM |
| 19 | 18901919017 | Abhishikta Sarkar | Connected Drug Delivery | SBR |
| 20 | 18901919018 | Ankit Das | Synthesis of Anti-Cancer Coumarin Derivatives | IM |
| 21 | 18901919019 | Abdur Rahaman | Synthesis of Antibacterial Coumarins | SKM |
| 22 | 18901919020 | Angana Chakraborty | A Review - on Role of <i>Clitoria Ternatea</i> in Various CNS Disorders | SSC |
| 23 | 18901919021 | Abhijit Goswami | A Review on Prevention, Detection and Management of Breast Cancer | SDB |
| 24 | 18901919022 | Arijit Dey | Study of Various Pharmacognostic and Phytochemical Behaviour on The <i>Moringa Oleifera</i> Leaves | SAM |
| 25 | 18901919025 | Soumyadip Saha | Synthesis of Anti-Cancer Coumarin Derivatives | IM |
| 26 | 18901919026 | Anirban Dalui | Isolation and Chemical Characterization of The Fractions of Methanolic Extract of Purified Roots of <i>Plumbago Zeylanica</i> | PSP |
| 27 | 18901919027 | Gopendra Krishna Roy | A Review on Nutraceuticals New Era of Medicine in Human Health | TR |
| 28 | 18901919028 | Subhankar Nag | Review on Mucoadhesive Drug Delivery System | SPD |
| 29 | 18901919029 | Harekrishna Saha | Magnetically Loaded Drug Delivery System: A Review | SDB |
| 30 | 18901919030 | Soumyadeep Majhi | Formulation of Paracetamol & Its Evaluation | SG |
| 31 | 18901919031 | Srinjani Mitra | <i>Escherichia Coli</i> is A Key Species associated with AMR | SHB |
| 32 | 18901919032 | Hirak Bhowmik | Transdermal insulin Drug Delivery Emphasizing on Electrically Facilitated Delivery System | SSM |

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| | | | | |
|----|-------------|---------------------|---|------|
| 51 | 18901919051 | Satadru Mallik | Comparative Evaluation Study of Marketed Metformin Sustained Release Tablets | FP |
| 52 | 18901919052 | Srabona Konar | Thermodynamically Stable Microstructure as Efficient Drug Carrier- A Review | IC |
| 53 | 18901919053 | Suman Das | Improving Solubility Enhancement of Carvedilol <i>via</i> Cocrystallization: A Review | HB |
| 54 | 18901919054 | Arkaprava Paul | Transdermal insulin Delivery Emphasizing on Mechanical force Triggered Delivery System | SSM |
| 55 | 18901919055 | Sovan Giri | Emerging Concepts in Pharmaceutical Marketing Channels | TR |
| 56 | 18901919056 | Sudarshini Dutta | A Review on Antibiotic Resistance of Penicillin | SR |
| 57 | 18901919057 | Sourav Gorai | Comparative in-vitro Evaluation Studies of Marketed Brand & Generic Paracetamol Tablets | WZH |
| 58 | 18901919058 | Swapnamoy Gayen | Screening of Anti-inflammatory Activity Using Oyster Meat Extract | JM |
| 59 | 18901919059 | Suryakanta Dolui | Comparative in-vitro Studies of Marketed Brand and Generic Paracetamol Tablets | WZH |
| 60 | 18901919060 | Sourav Patra | Synthesis of Caffeic Acid-G-Xanthan Gum Hydrogels and Evaluation of Their Gel-Sol Transition Properties | HB |
| 61 | 18901919062 | Soumen Lahari | A Review on Orodispersible Dosage form for Pediatric Use | IC |
| 62 | 18901919063 | Swagata Roy | Alcoholism -An Enigma Among Us | SSSM |
| 63 | 18901919064 | Swarup Chatterjee | A Review of Antisense Therapy and Biological Targets for asthma | SS |
| 64 | 18901919066 | Sourav Ghosh | Survey on Prescription Error in Tertiary Care Hospitals | SS |
| 65 | 18901919067 | Washim Aktar | Screening of Anti-inflammatory Activity Using Oyster Meat Extract | JM |
| 66 | 18901919068 | Tridib Nayek | Curcumin and Its Derivatives: A Holistic Treatment for Alzheimer's Disease | PM |
| 67 | 18901919069 | Krishnendu Bhowmick | Nutritional Requirements for The Elderly in India | SNM |
| 68 | 18901919070 | Md Sahidujjaman | Review on Modern Application of DNA Fingerprinting | AS |

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| | | | | |
|----|-------------|------------------|---|-----|
| 69 | 18901919071 | Sayed Anowar | Review on Modern Application of DNA Microarrays | AS |
| 70 | 18901919072 | Somnath Singha | Formulation of Paracetamol & Its Evaluation | SG |
| 71 | 18901919073 | Sumana Pal | Develop The formulation of Cholera Vaccine | SC |
| 72 | 18901919074 | Mohitosh Patra | Natures Power House ashwagandha | AC |
| 73 | 18901919075 | Raj Ali | Review on Modern Application of ELISA | AS |
| 74 | 18901919076 | Susovan Das | Silicosis A Disaster in Coal Yards of India: Recent Update in Therapeutics | AM |
| 75 | 18901919077 | Sarmistha Mondal | A Review on Role of <i>Clitoria Ternatea</i> in Various CNS Disorders | SSC |
| 76 | 18901919078 | Sudip Mondal | A Rapid and Efficient DNA Extraction Protocol from Fresh Rodent Blood Samples | SDT |
| 77 | 18901919079 | Subhankar Pal | Improvement of Solubility and Dissolution of Aceclofenac by Solid Dispersion Technique | SNC |
| 78 | 18901919080 | Koushik Das | A Rapid and Efficient DNA Extraction Protocol from Fresh Rodent Blood Samples | SDT |
| 79 | 18901919081 | Ishika Dey | Review on Metallic Nanoparticles in Drug Delivery System | RCG |
| 80 | 18901919082 | Sudip Maji | A Short Review on The Role of Phytochemicals Acting on Alzheimer's Disease | SAM |
| 81 | 18901919083 | Rahul Mallick | Diseases Due to Wrong Body Postures | SNM |
| 82 | 18901919085 | Sayanta Singha | Extraction: A Sensitive Process in Obtaining Secondary Metabolites from Herbs | AKG |
| 83 | 18901919087 | Priyangi Ghosal | Immobilization of Plastic Degrading Microorganism on Polymeric Nanoparticle for Efficient Plastic Degradation | SK |
| 84 | 18901919088 | Rohit Chatterjee | Herbal Drugs in The Treatment of Non-Alcoholic Fatty Liver Disease (NAFLD) | SAM |
| 85 | 18901919089 | Jagadish Shil | Review on Microsponge Drug Delivery System | SPD |
| 86 | 18901919090 | Manoj Mana | Isolation and Preliminary Characterization of Alkaloids from Aqueous Extract of <i>Cuscuta Reflexa</i> | SVB |
| 87 | 18901919091 | Sahadev Das | A Review on E-Pharmacy | SDB |

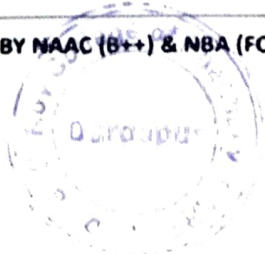
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|-----|-------------|--------------------|--|-----|
| 88 | 18901919092 | Jayita Pal | A Review - on Role of <i>Clitoria Ternatea</i> on Various CNS Disorders | SSC |
| 89 | 18901919093 | Shreya Datta | Different Methods of Sterilization | SC |
| 90 | 18901919094 | Priyam Kumar Giri | Pros and Cons of Digital and Manual Sphygmomanometer | AC |
| 91 | 18901919095 | Rajat Samai | A Presentation on: Tablet Binder | IC |
| 92 | 18901919096 | Hirakdyuti Ganguly | A Preview on HPTLC-MS (High Performance Thin Layer Chromatography – Mass Spectrometry) as one of The Finest Modern Analytical Tools | IM |
| 93 | 18901919097 | Indrajit Pal | Comparative Evaluation Study of Different Marketed Ibuprofen Tablets | FP |
| 94 | 18901919098 | Sangram Rakshit | A Review on New Approaches to Pharmaceutical Coating | IC |
| 95 | 18901919099 | Rajat Dandapat | Synthesis and Characterization of Low-Methoxyl-Pectin Tamarind Gum Based Composite Films | SDB |
| 96 | 18901919100 | Mainul Hasan | Curcumin and Its Derivatives: A Holistic Treatment for Alzheimer's Disease | PM |
| 97 | 18901919101 | Nirupam Pattanayak | 2D-QSAR Analyses on Some Cariprazine Based D2 Receptor Ligands Using Various Feature Selection Techniques | AKH |
| 98 | 18901919102 | Md Mainul Hassan | Novel Drug in The Treatment of Malaria | AM |
| 99 | 18901920106 | Sanchita Podder | Extraction: A Sensitive Process in Obtaining Secondary Metabolites from Herbals | AKG |
| 100 | 18901920107 | Subhajyoti Khamrui | Comparative Evaluation Study of Different Marketed Metronidazole Tablets | FP |
| 101 | 18901920108 | Soyed Rana | Importance of Data integrity in Pharmaceutical Documentation Process | IM |
| 102 | 18901920109 | Boni Israil | Development and Validation of UV-visible Spectrophotometric Method for Simultaneous Estimation of Gliclazide & Metformin in Tablet Dosage form | MND |
| 103 | 18901920110 | Sk Saima Khatun | Comparative Evaluation Study of Different Marketed Metformin Tablets | FP |
| 104 | 18901920111 | Ramkrishna Mahata | Development and Validation of UV-visible Spectrophotometric Method | MND |

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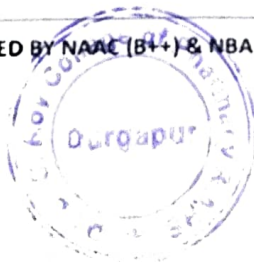



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|-----|-------------|-------------------------|--|-----|
| | | | for Simultaneous Estimation of Gliclazide & Metformin in Tablet Dosage form | |
| 105 | 18901920112 | Moumita Debnath | Development The formulation of Typhoid Vaccine (Lab Scale Practicing) IP | SC |
| 106 | 18901920113 | Suman Saw | Improvement of Solubility and Dissolution of Aceclofenac by Solid Dispersion Technique | MD |
| 107 | 18901920114 | Gourab Singha Mahapatra | Development and Validation of UV-visible Spectrophotometric Method for Simultaneous Estimation of Gliclazide & Metformin in Tablet Dosage form | MND |
| 108 | 18901920115 | Krishna Gopal Mondal | A Review - on Role of <i>Clitoria Ternatea</i> in Various CNS Disorders | SSC |
| 109 | 18901920116 | Ritam Mondal | <i>In-Vitro</i> Evaluation of Certain Repurposed and Synthetic Heterocyclic Compounds Against Protein Fibrillation | SVB |
| 110 | 18901920117 | Anurag Das | <i>In-Vitro</i> Evaluation of Certain Repurposed and Synthetic Heterocyclic Compounds Against Protein Fibrillation | SVB |
| 111 | 18901920118 | Avijit Bhunia | A Review on Gas Chromatography | US |
| 112 | 18901920120 | Moumita Chatterjee | Improvement of Solubility and Dissolution of Aceclofenac by Solid Dispersion Technique | MD |

ACADEMIC YEAR – 2022-23

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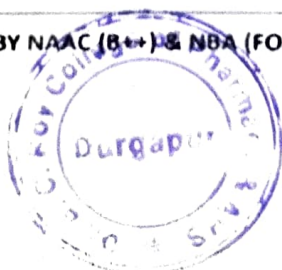


LIST OF M. PHARM. STUDENTS UNDERTAKING PROJECT WORK

PHARMACEUTICS (PROGRAM CODE – 203)

| SL. NO | UNIVERSITY ROLL NO | NAME | PROJECT TITLE | GUIDES |
|--------|--------------------|----------------------|---|---|
| 113 | 18920321001 | Md. Mustakim Mallick | Formulation Development Study of Oral Wafers of a Model Antidepressant Drug | Prof. Subhabrata Ray |
| 114 | 18920321002 | Abhishek Maity | Preparation and Evaluation of Nicotinamide and Ciprofloxacin Hydrochloride Loaded Films for Burn Wound | Mr. Saptarshi Dutta |
| 115 | 18920321003 | Samim Kazi | Extraction and Evaluation of Tamarind Gum as A Natural Suspending Agent | Prof. Suman Roy & Miss Sancharee Mondal |
| 116 | 18920321004 | Rounak Bhattacharya | Formulation and Characterization of Sodium Alginate/Ferulic Acid Conjugated Films for Wound Healing Applications | Mr. Saptarshi Dutta |
| 117 | 18920321005 | Debjoty Paul | Prediction and Implementation of Computational Simulation Approach on Enhancement of Solubility and Dissolution of Telmisartan by Cocrystallization Technique | Prof. Santanu Chakraborty |
| 118 | 18920321006 | Arnab Chatterjee | Formulation and Characterization of Ellagic Acid Loaded Copper Nanoparticles | Mrs. Rituparna Chaki Ghosh |
| 119 | 18920321007 | Suvendu Maity | Synthesis of Coumaric acid/pullulan conjugates, their nanoformulations and biological properties | Dr. Hriday Bera & Dr. Souvik Basak |
| 120 | 18920321008 | Santana Mukhopadhyay | Design, Development and Characterisation of Algino-Fenugreek Mucoadhesive Microspheres of Model Anti-Hypertensive drug | Dr. Manami Dhibar |
| 121 | 18920321009 | Madhurima Kotal | Fabrication and Characterization of Multiparticulate Drug Delivery System of Aceclofenac using Dillenia indica Mucilage | Prof. Santanu Chakraborty & Prof. Subrata Chakraborty |

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| | | | | |
|-----|-------------|------------------|--|---|
| 122 | 18920321010 | Sayan Kundu | Preparation and Evaluation of Nicotinamide and ofloxacin Loaded Films for Wound Healing | Prof Subhabrata Ray & Mr. Saptarshi Dutta |
| 123 | 18920321011 | Suman Barai | Ferulic Acid-g-Tamarind Gum/Guar Gum based in situ gel forming powders as wound dressings | Dr. Hriday Bera |
| 124 | 18920321012 | Anik Layek | Synthesis of Caffeic Acid-g-Xanthan gum-based hydrogels and Characterization of Their Antioxidant and Sol- gel transition Properties | Dr. Hriday Bera & Dr. Parthasarathi Panda |
| 125 | 18920321013 | Bishal Sarkar | Design, Development and Physico-chemical Characterization of Valsartan Cocrystals | Prof. Santanu Chakraborty & Dr. Manami Dhibar |
| 126 | 18920321014 | Shah Alam | Formulation Development of Silver Nanocarriers of Naringin | Mrs. Rituparna Chaki Ghosh & Dr. Souvik Basak |
| 127 | 18920321015 | Manonayan Singha | Synthesis of Oxidized Sterculia Gum/Coumaric Acid-g-gelatin Based Sponges and Evaluation of Their Wound Healing Potentials | Prof. Subhabrata Ray & Dr. Hriday Bera |

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LIST OF M. PHARM. STUDENTS UNDERTAKING PROJECT WORK

PHARMACOLOGY (PROGRAM CODE – 202)

| SL. NO | UNIVERSITY ROLL NO | NAME | PROJECT TITLE | GUIDES |
|--------|--------------------|------------------------|---|--|
| 128 | 18920221001 | Neha Sarkar | Investigation of Anti-inflammatory Activity of Antidiabetic Drugs on Swiss Albino Mice | Dr. Aniruddha Mukherjee |
| 129 | 18920221002 | Nandita Mandal | Phytochemical investigation and Pharmacological Evaluation of Purified Roots of <i>Plumbago zeylanica</i> in inflammation | Dr. Yadu Nandan Dey & Dr. Parthasarathi Panda |
| 130 | 18920221003 | Soumyakanti Chatterjee | In-Vitro and in Silico Studies on interaction of Quinolones with Calf Thymus- DNA. | Dr. Sagarika Deepthy Tallapragada |
| 131 | 18920221004 | Chiranjit Dey | investigations on the Effects of Statins on Mood Disorders in Mice | Prof. Shyamshree S S Manna |
| 132 | 18920221006 | Poulomi Mishra | Evaluation of Aldose Reductase inhibitory Potential of <i>Cuscuta reflexa</i> Roxb. in Galactose induced Cataractogenesis in Wistar Rats | Mr. Saroj Singhmura |
| 133 | 18920221008 | Ranajit Pal | Immobilization of Plastic Degrading Microorganism on Polymeric Nanoparticle for Efficient Plastic Degradation and toxicity Study of Microorganism on Animal Model | Dr. Abhik Si & Mr. Sonjoy Konar |
| 134 | 18920221009 | Shreema Baksi | To Study the Sleep Potentiating Effects of Dried Ethanolic Extract of <i>Clitoria ternatea</i> in Swiss Albino Mice | Dr. Avijit Chatterjee & Ms. Sushruta Chakraborty |
| 135 | 18920221010 | Sourav Roy | To Study the Role of Dried Ethanolic Extract of <i>Clitoria ternatea</i> in Treatment of Psychosis in Swiss Albino Mice | Dr. Abhik Si & Ms. Sushruta Chakraborty |
| 136 | 18920221011 | Nitish Kumar Halder | Immobilization of Plastic Degrading Microorganism on Polymeric Nanoparticles for Efficient Plastic Degradation & | Dr. Avijit Chatterjee & Mr. Sonjoy Konar |

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| | | | | |
|-----|-------------|-----------------|---|--|
| | | | to Evaluate Wound Healing in Animal Model | |
| 137 | 18920221012 | Tanzeem Nigar | Pharmacological Evaluation of Purified Roots of <i>Plumbago zeylanica</i> in Croton oil-induced Rectal inflammation in Rats | Dr. Yadu Nandan Dey |
| 138 | 18920221013 | Avijit Bej | Synthesis and Characterization of Silver Nanoparticles and Evaluation of Their Antibacterial Activity and Exploring Their Potential for Lung Cancer Cell line DNA interaction | Dr. Sagarika Deepthy Tallapragada |
| 139 | 18920221014 | Sachin Karmakar | In-vivo & in-silico Studies on the Effect of Ibuprofen on Wound Healing Process | Prof. Shyamshree SS Manna |
| 140 | 18920221015 | Bishal Banerjee | Studies on the Effects of <i>Marsilea minuta</i> Extract on Ethanol Withdrawal-induced Hyperexcitability in Mice | Prof. Shyamshree SS Manna & Mrs. Javita Mondal |


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A
Project Report on

Immobilization of plastic degrading microorganism on polymeric nanoparticle for efficient plastic degradation

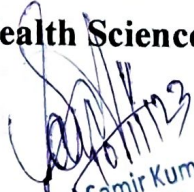
Submitted by
ANIRBAN GHOSH

University Regn. No. – 011778
Roll No. -18901919001

Under the guidance of
MR. SANJOY KONAR
Assistant Professor
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal
Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206
Academic Year: 2022 - 2023




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DECLARATION

I hereby declare that the Project entitled “**Immobilization of plastic degrading microorganism on polymeric nanoparticle for efficient plastic degradation**” in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Sir Sanjoy Konar**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Anirban Ghosh
Signature


Name of Candidate: ANIRBAN GHOSH

Roll No: 18901919001

Date: 15.05.23

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled “Immobilization of plastic degrading microorganism on polymeric nanoparticle for efficient plastic degradation” by Anirban Ghosh in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



15/05/2023

Signature of Supervisor

Name of Supervisor:

Date: 15.05.23

Place: Durgapur



PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date: 15.05.23

Place: Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206




15/05/23

Signature





A
Project Report on

**IN-VITRO EVALUATION OF CERTAIN
REPURPOSED AND SYNTHETIC
HETEROCYCLIC COMPOUNDS AGAINST
PROTEIN FIBRILLATION**

Submitted by

SUCHETA KARMAKAR

University Regn. No.- 039608

Roll No.- 18901919004

Under the guidance of

Dr. Souvik Basak

Associate Professor and Divisional In-charge (Pharmaceutical
Chemistry), BCRC

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022-2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "*In-vitro* evaluation of certain repurposed and synthetic heterocyclic compounds against protein fibrillation" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Souvik Basak.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sucheta Karmakar

Signature


Name of Candidate: Sucheta Karmakar

Roll No: 18901919004

Date: 15.05.2023

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 713236

CERTIFICATE

This is to certify that the Project entitled "*In-vitro* evaluation of certain repurposed and synthetic heterocyclic compounds against protein fibrillation" by Sucheta Karmakar in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Souvik Basak

Signature of Supervisor

Name of Supervisor: Dr. Souvik Basak

Date: 15.05.2023

Place: Durgapur

[Signature]

PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place:

Signature



[Signature]
28/05/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 726006



A
Project Report on

STUDY OF VARIOUS PHARMACOGNOSTIC AND PHYTOCHEMICAL BEHAVIOUR ON THE *MORINGA* *OLEIFERA LAM* LEAVES.

Submitted by

ARIJIT DEY

University Regn. No. – 037755

Roll No. - 18901919022

Under the guidance of

MR. SOUMYA MITRA

Assistant professor, Division of Pharmacognosy and Phytochemistry

In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to Exam cell

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "STUDY OF VARIOUS PHARMACOGNOSTIC AND PHYTOCHEMICAL BEHAVIOR ON THE *MORINGA OLEFERA LAM* LEAVES." in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mr. Soumya Mitra.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Arijit Deo.

Signature

Name of Candidate: ARIJIT DEY

Roll No: 18901919022

Date: 15.05.2023

Place: BCRCP, DURGAPUR




2

Signature of Prof. (Dr.) Samir Kumar Samanta

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "STUDY OF VARIOUS PHARMACOGNOSTIC AND PHYTOCHEMICAL BEHAVIOR ON THE *MORINGA OLEFERA* LAM. LEAVES." by Arijit Dey in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.




Signature of Supervisor

Name of Supervisor:

Date: 15.02.2023

Place: BCRCR, DURGAPUR

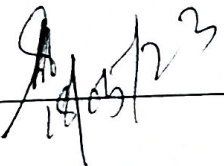


PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)


Date: 15.02.2023

Place: BCRCR, DURGAPUR

Signature 



3


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY
WEST BENGAL



A

Project Report on

2D-QSAR ANALYSIS ON C-ARYL GLYCOSIDE DERIVATIVES AS SGLT2 INHIBITORS USING OPEN-SOURCE SOFTWARE TOOLS

Submitted by

PRIYA RAY

University Regn. No. -181890210053

Roll No. -18901918068

Under the guidance of

Dr. Amit Kumar Halder

Associate Professor

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022- 2023



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "2D-QSAR ANALYSIS ON C-ARYL GLYCOSIDE DERIVATIVES AS SGLT2 INHIBITORS USING OPEN-SOURCE SOFTWARE TOOLS" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **DR. AMIT KUMAR HALDER**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Priya Ray.
Signature


Name of Candidate: PRIYA RAY

Roll No: 18901918068

Date: 15.05.2023

Place: DURGAPUR




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "2D-QSAR ANALYSIS ON C-ARYL GLYCOSIDE DERIVATIVES AS SGLT2 INHIBITORS USING OPEN-SOURCE SOFTWARE TOOLS" by Priya Ray in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Amit Kumar Halder 15/5/23

Signature of Supervisor

Name of Supervisor: Dr. Amit Kumar Halder

Date: 15.05.23

Place: Durgapur

Prof. (Dr.) Samir Kr. Samanta
(PRINCIPAL)

Date:

Place:

Signature



18/05/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

**Isolation and Chemical Characterization of
the Fractions of Methanolic Extract of
Purified Roots of *Plumbago zeylanica***

Submitted by
DEBANWITA LAHA

University Regn. No. - 037461

Roll No. - 18901919042

Under the guidance of

DR. PARTHASARATHI PANDA
ASSISTANT PROFESSOR


In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 – 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Isolation and Chemical Characterization of the Fractions of Methanolic Extract of Purified Roots of *Plumbago zeylanica*" in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by me under the guidance of DR. PARTHASARATHI PANDA.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Debanwita Laha

Signature

Name of Candidate: DEBANWITA LAHA

Roll No: 18901919042

Date: 17.05.2023

Place: DURGAPUR

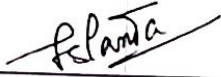


Samir Kumar Samanta
17/05/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & MHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Isolation and Chemical Characterization of the Fractions of Methanolic Extract of Purified Roots of *Plumbago zeylanica*" by DEBANWITA LAHA in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: DR. PARTHASARATHI PANDA

Date: 17.05.2023

Place: DURGAPUR



PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place: DURGAPUR

Signature



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

DEVELOP THE FORMULATION OF CHOLERA VACCINE

Submitted by
SUMANA PAL

University Reg. No. – 037021 of 2019-20
Roll No. - 18901919073

Under the guidance of
DR. SUBRATA CHAKRABORTY
(M. Pharm, Ph.D, FIC)
(Director of Dr. B.C. Roy College Of Pharmacy & Allied Health Science)


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Develop the Formulation of Cholera Vaccine" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me, under the guidance of Dr. Subrata Chakraborty.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sumana Pal.
Signature

Name of Candidate: Sumana Pal

Roll no: 18901919071

Date: 15/05/2023

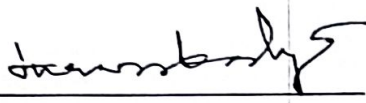
Place: Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Develop the Formulation of Cholera Vaccine" by Sumana Pal in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


 15/5/2023

Signature of Guide

Name of Guide: Dr. SUBRATA CHAKRABORTY
(DIRECTOR)

Date: 15/05/2023

Place: Durgapur


PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date: 15/05/2023

Place: Durgapur


Signature

Name of External Examiner:

Date: 15/05/2023

Place: Durgapur




6/8/5/23

Dr. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on
**PREPARATION AND EVALUATION OF NICOTINAMIDE AND
CIPROFLOXACIN HYDROCHLORIDE LOADED FILMS FOR
BURN WOUND**

Submitted by
ABHISHEK MAITY

University Regn. No. -211892320310002

Roll No. -18920321002

Under the guidance of
MR. SAPTARSHI DUTTA

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

Submitted to
**MaulanaAbulKalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206
Academic Year: 2022-2023**



Prof. Saptarshi Dutta
M. Pharm. (Pharmaceutics) 2022-23
Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, West Bengal - 713206

DECLARATION

I hereby declare that the Project entitled "**Preparation and evaluation of nicotinamide and ciprofloxacin hydrochloride loaded films for burn wound**" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of ^{Mr.} **Saptarshi Dutta**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Abhishek Maity
Signature


Name of Candidate: **Abhishek Maity**

Roll No: **18920321002**

Date: **22.05.23**

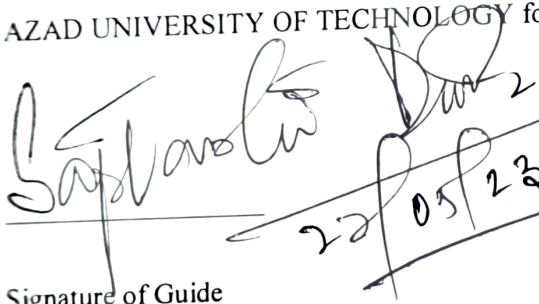
Place: **Durgapur**




Prof. (Dr.) Saptarshi Dutta
M. Pharm., Ph.D. (Pharm.)
Principal
Dr. B. C. Roy College of Pharmacy & HOS
Durgapur, West Bengal 713205

CERTIFICATE

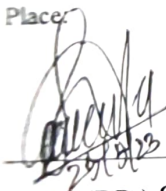
This is to certify that the Project entitled "Preparation and evaluation of nicotinamide and ciprofloxacin hydrochloride loaded films for burn wound" by Abhishek Maity in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


Signature of Guide

Name of Guide:

Date:

Place:


PROF (DR.) Samir Kumar Samanta

(PRINCIPAL)

Date:

Place:

Signature

Name of External Examiner: Dr. Kajal Chhosal

Date:

Place:




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 713206



A
Project Report on

Prediction and Implementation of Computational Simulation Approach on Enhancement of Solubility and Dissolution of Telmisartan by Cocrystallization Technique

Submitted by

DEBJOTY PAUL

University Regn. No. – 211892320310005

Roll No. - 18920321005

Under the guidance of

PROF. (DR.) SANTANU CHAKRABORTY

M. Pharm., Ph. D., F.I.C.

Professor

Divisional In-charge, Pharmaceutics

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023



*Prof. (Dr.) Santanu Chakraborty
M. Pharm., Ph. D., F.I.C.
Principal
Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, West Bengal-713206*

DECLARATION

I hereby declare that the Project entitled "**Prediction and Implementation of Computational Simulation Approach on Enhancement of Solubility and Dissolution of Telmisartan by Cocrystallization Technique**" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Prof. (Dr.) Santanu Chakraborty**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Debjoy Paul

Signature

Name of Candidate: **Debjoy Paul**

Roll No: **18920321005**

Date: **23/05/2022**

Place: **Durgapur.**


Prof. (Dr.) Santanu Chakraborty
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled "Prediction and Implementation of Computational Simulation Approach on Enhancement of Solubility and Dissolution of Telmisartan by Cocrystallization Technique" by **Debjoty Paul** in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Santanu Chakraborty - 23/05/23

Signature of Guide

Name of Guide: **Prof. (Dr.) Santanu Chakraborty**
Prof. (Dr.) Santanu Chakraborty

Date: **M. Pharm., Ph.D., FIC**

Place: **DIC, Pharmaceutics Division**
Dr. B. C. Roy College of Pharmacy and AHS
Bidhannagar, Durgapur-713206

[Signature] - 23/05/23

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:

[Signature] - 23/05/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

[Signature] - 23/05/2023

Name of External Examiner: **Dr. Kajal Chakraborty**

Date:

Place:



University Regn. No. -211892320310007

Roll No. -18920321007

Under the guidance of

DR. HRIDAY BERA (Guide)

Associate Professor, BCRCP.

&

DR. SOUVIK BASAK (Co-guide)

Associate Professor, BCRCP.

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report on

**“Synthesis of coumeric acid/pullulan conjugates, their
nanoformulations and biological properties”**

Submitted by

SUVENDU MAITY

University Regn. No. -211892320310007

Roll No. -18920321007

Under the guidance of

DR. HRIDAY BERA (Guide)

Associate Professor, BCRC.

&

DR. SOUVIK BASAK (Co-guide)

Associate Professor, BCRC.

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023



*Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206*

DECLARATION

I am hereby declared that the Project entitled “**Synthesis of coumeric acid/pullulan conjugates, their nanoformulations and biological properties**” in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **DR. Hriday Bera**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.


Signature


Name of Candidate: Suvendu Maity

RollNo:18920321007

Date: 22.05.23

Place:Durgapur




Prof. (Dr.) M. Phari
M. Pharm., Ph.D. (J.C.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled “**Synthesis of coumeric acid/pullulan conjugates, their nanoformulations and biological properties**” by **suvendu maity** in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Guide

Name of Guide: Dr. Hriday bera

Date: 22.05.23

Place: Durgapur



PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date: 22.05.23

Place: Durgapur

26/5/2023

Signature

Name of External Examiner: Dr. Kajal Ghosal

Date: 22.05.23

Place: Durgapur



Signature of Co-Guide

Name of Co-Guide: Dr. Souvik basak

Date: 22.05.23

Place: Durgapur



Prof. (Dr.) M. Prasad
M. Prasad, Ph.D.
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





A
Project Report on

**DESIGN, DEVELOPMENT AND
CHARACTERISATION OF ALGINO-FENUGREEK
MUCOADHESIVE MICROSPHERES OF MODEL
ANTI-HYPERTENSIVE DRUG**

Submitted by

SANTANA MUKHOPADHYAY
University Regn. No. – 211892320310008
Roll No. - 18920321008

Under the guidance of
DR. MANAMI DHIBAR
M. Pharm, Ph.D.
Assistant Professor
Department of Pharmaceutics

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206
Academic Year: 2022 - 2023



*Prof. (Dr.) Manami Samanta
M. Pharm, Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206*

DECLARATION

I hereby declare that the Project entitled “**Design, Development and Characterisation of Algino-Fenugreek Mucoadhesive Microspheres of Model Anti-Hypertensive Drug**” in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Dr. Manami Dhibar**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Santana Mukhopadhyay

Signature

SANTANA MUKHOPADHYAY

Roll No: **18920321008**

Date: **22.05.2023**

Place: **Durgapur**

Manami Dhibar
Prof. (Dr.) **Manami Dhibar**
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & M.S.
Durgapur, West Bengal-713208



CERTIFICATE

This is to certify that the Project entitled “**Design, Development and Characterisation of Algino-Fenugreek Mucoadhesive Microspheres of Model Anti-Hypertensive Drug**” by **Santana Mukhopadhyay** in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Manami Dhibar

Signature of Guide

Dr. Manami Dhibar

Date: 22.05.2023

Place: Durgapur

Samir Kr. Samanta
22/5/23

Prof. (Dr.) Samir Kr. Samanta

(PRINCIPAL)

Date:

Place: Durgapur

Signature

Name of External Examiner:

DR. Kajal Chhosal.

Date:

Place: Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713205



A

Project Report on

**FERULIC ACID-g-TAMARIND GUM/GUAR GUM
BASED *IN SITU* GEL FORMING POWDERS AS
WOUND DRESSINGS**

Submitted by

SUMAN BARAI

University Regn. No. – 211892320310011

Roll No. – 18920321011

Under the guidance of

Dr. Hriday Bera

Associate Professor

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

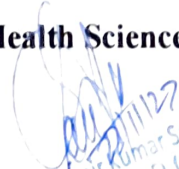
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022-2023




Prof. (Dr.) Smitir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 713206

DECLARATION

I hereby declare that the Project entitled "**FERULIC ACID-g-TAMARIND GUM/GUAR GUM BASED *IN SITU* GEL FORMING POWDERS AS WOUND DRESSINGS**" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **DR. HRIDAY BERA**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Suman Bera

Signature

Name of the Candidate

Roll No. 18920321011

Date: 22-05-2023

Place: Durgapur



[Signature]
22/05/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "FERULIC ACID-g-TAMARIND GUM/GUAR GUM BASED *IN SITU* GEL FORMING POWDERS AS WOUND DRESSINGS" by Suman Barai in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Signature of Guide

Name of Guide DR. HRIDAY BERA

Date: 22.05.2023

Place: Durgapur, W.B.

NA

Signature of Co-Guide

Name of Co-Guide

Date:

Place:

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:

26/5/2023

Signature

Name of External Examiner

Dr. Kajal Ghosal.

Date:

Place:



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (I.I.T.)
Principal
Dr. B. C. Roy College of Pharmacy & H.S.
Durgapur, West Bengal - 726106



A thesis on

**Phytochemical Investigation and Pharmacological
Evaluation of Purified Roots of *Plumbago zeylanica* in
Inflammation**

Submitted by

NANDITA MANDAL

University Regn. No. – 211892320210003 of 2021-22

Roll No. -18920221002

Under the guidance of

Dr. Yadu Nandan Dey

Associate Professor

&

Co-guidance of

Dr. Parthasarathi Panda

Assistant Professor

In fulfillment of the Requirement for the Degree of
Master of Pharmacy in Pharmacology

Submitted to

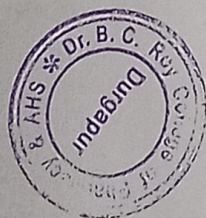
Maulana Abul Kalam Azad University of Technology

West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2022 – 2023



Prof. (Dr.) Sanjit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Phytochemical Investigation and Pharmacological Evaluation of Purified Roots of *Plumbago zeylanica* in Inflammation" in fulfillment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by me under the guidance of Dr. Yadu Nandan Dey (Guide) & Dr. Parthasarathi Panda (Co-guide).

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Nandita Mandal

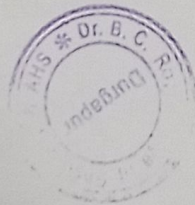
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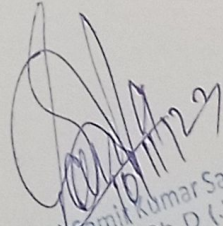
Name of Candidate: Nandita Mandal

Roll No: 18920221002

Date: 24/05/2023

Place: DURGAPUR




Prof. (Dr.) Samit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Phytochemical Investigation and Pharmacological Evaluation of Purified Roots of *Plumbago zeylanica* in Inflammation" by Nandita Mandal in partial fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Yadu Nandan Dey

P. Panda

Signature of Guide

Signature of Co-Guide

Name of Guide: Dr. YADU NANDAN DEY

Name of Co-Guide: DR. PARTHASARATHI PANDA

Date: 25-05-2023

Date: 24.05.2023

Place: Durgapur

Place: Durgapur

25/5/23
PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:

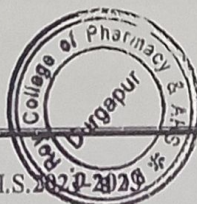
25/5/23

Signature

Name of External Examiner:

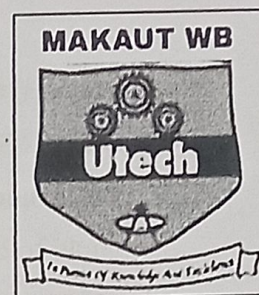
Date:

Place:



25/5/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm. Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & A.H.S.
Durgapur, West Bengal-713206

Dr. B. C. Roy College of Pharmacy and A.H.S. 2023-2026



A project Report on

***IN-VITRO AND IN SILICO* STUDIES ON INTERACTION OF
QUINOLONES WITH CALF THYMUS- DNA.**

Submitted by

MR. SOUMYAKANTI CHATTERJEE

Reg. No: 211892320210004 of 2021- 22

Roll No: 18920221003

Under the Guidance of

DR. SAGARIKA DEEPHY TALLAPRAGADA

M. Pharm., Ph.D., Assistant Professor

DEPARTMENT OF PHARMACOLOGY

In fulfilment for the award of the degree of
MASTER OF PHARMACY IN PHARMACOLOGY

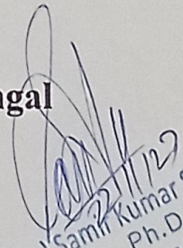
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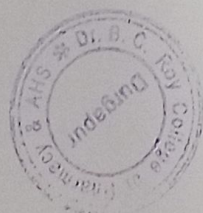
**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY,
WEST BENGAL**

**DR. B. C. ROY COLLEGE OF PHARMACY & ALLIED
HEALTH SCIENCES**

DURGAPUR -713206, West Bengal

Academic Year: 2022- 2023


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "*IN-VITRO AND IN SILICO STUDIES ON INTERACTION OF QUINOLONES WITH CALF THYMUS- DNA*" in fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Dr. Sagarika Deepthy Tallapragada**.

The matter embodied in this Project has not been submitted for the award of any other Degree or Diploma to any University / Institution.

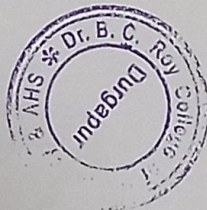
Soumyakanti Chatterjee

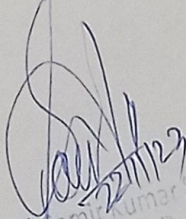
SOUMYAKANTI CHATTERJEE

Roll No: 18920221003.

Date: 22/05/2023

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "*IN-VITRO AND IN SILICO STUDIES ON INTERACTION OF QUINOLONES WITH CALF THYMUS-DNA*" by MR. SOUMYAKANTI CHATTERJEE in fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Dr. T. Sagarika Deepthy

DR. SAGARIKA DEEPHY TALLAPRAGADA

M. Pharm, Ph.D.

Assistant Professor (Dept of Pharmacology)

Date: 22.05.2023

Place: Durgapur.

Dr. Sagarika Deepthy Tallapragada

M. Pharm., Ph.D

Assistant Professor

Department of Pharmacology

Dr. B. C. Roy College of Pharmacy & AHS

Durgapur-713206

[Signature]
25/5/23

.....
PROF (DR.) SAMIR KUMAR SAMANTA

(PRINCIPAL)

Date:

Place:

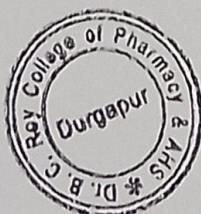
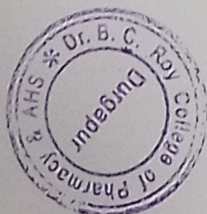
[Signature]
25/5/23

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SIGNATURE OF EXTERNAL EXAMINER

Date:

Place:

[Signature]
25/5/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





A
Project Report on

**Investigations on the Effects of Statins on Mood Disorders
in Mice**

Submitted by
CHIRANJIT DEY

University Regn. No.-211892320210005 of 2021-23

Roll No.-18920221004

Guide

(Prof.) Dr. Shyamshree S S Manna

In partial fulfilment of the Requirement for the Degree of

Master of Pharmacy in Pharmacology

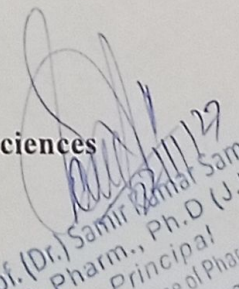
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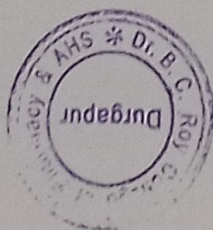
Maulana Abul Kalam Azad University of Technology

West Bengal

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year : 2022-2023


Prof. (Dr.) Samir Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Declaration

I am hereby declared that the project entitled "Investigations on the Effects of Statins on Mood Disorders in Mice" in partial fulfillment of the requirement for the award of Master of pharmacy submitted to Maulana Abul Kalam Azad University Of Technology, West Bengal, is an authentic record of bonafide work carried out by me under the guidance of Prof (Dr.) Shyamshree S S Manna.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University/Institution.

Chiranjit Dey.

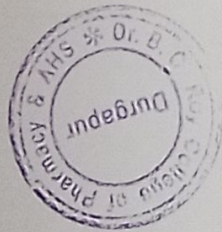
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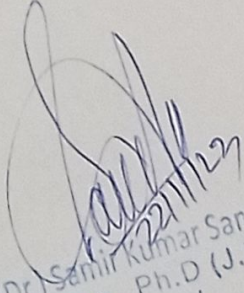
Mr Chiranjit Dey

Roll No: 18920221004

Date: 24/05/2023

Place: Durgapur

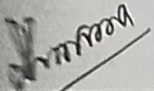



Prof. (Dr.) Sanjit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Certificate

This is to certify that the project entitled "*Investigations on the Effects of Statins on Mood Disorders in Mice*" by Chiranjit Dey in partial fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of original research work under my supervision and up to my satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before.

The thesis is forwarded to controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

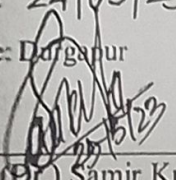


Signature of Guide

Dr Shyamshree S S Manna

Date 24/05/23

Place: Durgapur

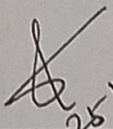


Prof (Dr.) Samir Kr. Samanta

(Principal)

Date:

Place: Durgapur

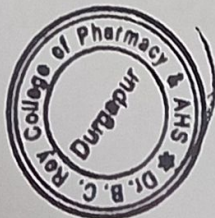
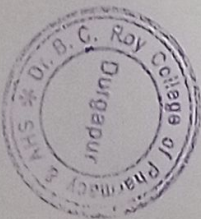

25/5/23

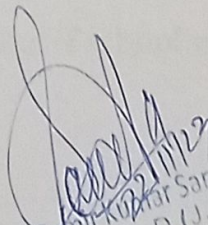
Signature

Name of External Examiner:

Date:

Place:




Prof. (Dr.) Samir Kr. Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report On

Immobilization of Plastic Degrading Microorganism on Polymeric Nanoparticle for Efficient Plastic Degradation and Toxicity Study of Microorganism on Animal Model

Submitted by

Ranajit Pal

University Reg No.- 211892320210009 of 2021-2022

Roll No.- 18920221008

Under The Joint Guidance of

Dr. Abhik Si

Associate Professor

&

Mr. Sanjoy Koner

Assistant Professor

In partial fulfilment of the Requirement for the Degree of

Master of Pharmacy in Pharmacology

Submitted to

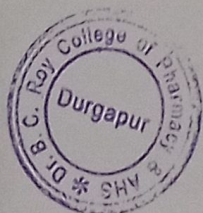
Maulana Abul Kalam Azad University of Technology

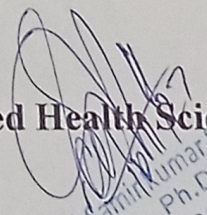
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Saha
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Immobilization of Plastic Degrading Microorganism on Polymeric Nanoparticle for Efficient Plastic Degradation and Toxicity Study of Microorganism on Animal Study" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Abhik Si and Mr. Sanjoy Koner .

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Ranajit Pal

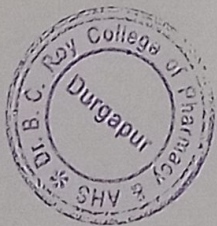
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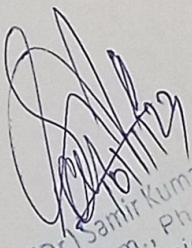
Name of Candidate: RANAJIT PAL

Roll No: 18920221008

Date: 23/3/2023

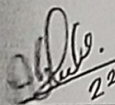
Place: Durgapur

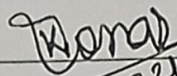



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Immobilization of Plastic Degrading Microorganism on Polymeric Nanoparticle for Efficient Plastic Degradation and Toxicity Study of Microorganism on Animal Study" by Sanjit Pal in partial fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


22/5/23


22/05/2023

Signature of Guide

Signature of Co-Guide

Name of Guide: Dr. Abhik S.

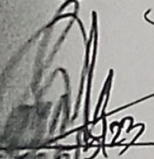
Name of Co-Guide: Mr. Sanjoy Kumar

22.05.23

Date:

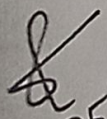
Durgapur.

Place: Durgapur

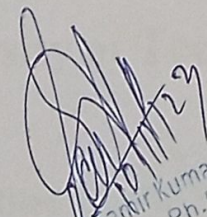

22/5/23

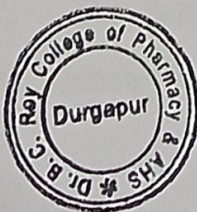
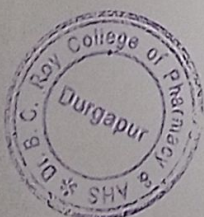
Prof. (Dr.) SAMIR KR. SAMANTA

(PRINCIPAL)


25/5/23

External Examiner:


29/5/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





A

Project report on

**Pharmacological Evaluation of Purified roots of *Plumbago
zeylanica* in Croton oil-induced Rectal Inflammation in
Rats**

Submitted By

TANZEEM NIGAR

University Regn. No. –211892320210013 of 2021- 22

Roll No. – 18920221012

Under the Guidance of

Dr. YADU NANDAN DEY

Associate Professor, BCRCP

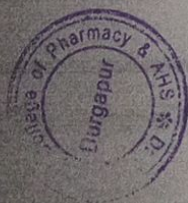
In partial fulfilment of the requirement for the award of the Degree of

Master of Pharmacy in Pharmacology

**Submitted to: Maulana Abul Kalam Azad University of
Technology, West Bengal**

**Dr. B.C. Roy College of Pharmacy and Allied Health Sciences, Durgapur-
713206**

Academic year: 2022-2023



Prin. Dr. Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Pharmacological evaluation of purified roots of *Plumbago zeylanica* in Croton-oil induced Rectal inflammation in Rats" in partial fulfilment of the requirement for the award of Master of Pharmacy in Pharmacology submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. YADU NANDAN DEY.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Tanzeem Nigar

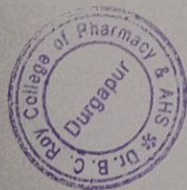
Signature

Name of Candidate: TANZEEM NIGAR

Roll No: 18920221012

Date: 24.05.2023

Place: DURGAPUR



[Signature]
Prof. (Dr.) Samir Kumar Samanta
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Principal
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CERTIFICATE

This is to certify that the Project entitled "Pharmacological evaluation of Purified roots of *Plumbago zeylanica* in Croton- oil induced Rectal inflammation in Rats" by **YANZEEM NIGAR** in partial fulfilment for the **MASTER OF PHARMACY (PHARMACOLOGY)** under **MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY** is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination **MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY** for assessment.

Yadu Nandan Dey

Signature of Guide

Name of Guide: **Dr. YADU NANDAN DEY**

Date: **25-05-2023**

Durgapur

[Signature]

(DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Dr.

Dr.

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