

AUTONOMOUS JABALPUR- 482001 MADHYA PRADESH, INDIA

CRITERION-3

RESEARCH, INNOVATIONS AND EXTENSION

Key Indicator – 3.1

Promotion of Research and Facilities

Metric No.: 3.1.1

Research Promotion Initiatives

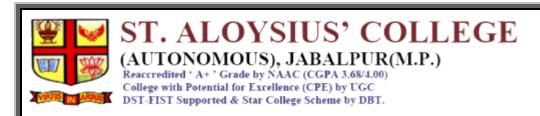






Document Name

Research Based Dissertation



Research Promotion Initiatives

3.1.1 Research Based Dissertation

Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Duration	Session
1.	Study on Detection of Dengue Virus RNA and Serotyping of Dengue using Whatman Filter Paper	ICMR- National Institute of Research in Tribal Health Department of Health Research	Anjana Marko	6 Months	2019-20
2.	Molecular Characterization of Beta Thalassemia Mutation	ICMR- National Institute of Research in Tribal Health Department of Health Research	Ekta Rao	6 Months	2019-20
3.	DNA Isolation and PCR amplication of GAPDH gene of <i>Capra hircus</i>	Animal Biotechnology Centre,JBP	G. Hemlata	6 Months	2019-20
4.	Preparatory activities for Assessment of Biomedical waste Management at HIV care settings in India	National AIDS Research Institute, Pune	Ms. Fiza Tarannum	6 Months	2019-20
5.	Study on Tissue Culture in Bamboos Species (Bambusa Bambos and Dendrocalamus strictus)	Tropical Forest Research Institute, Jabalpur	Rajeshwari Narkallu	6 Months	2019-20
6.	Prevalence of Various Hemoglobinopathies among Pregnant Women Attending NSCB Govt Medical College, Jabalpur	ICMR National Institute of Research in Tribal Health	Sakshi Jaiswal	6 Months	2019-20
7.	Kaempferol Induced Cytotoxic and Anti- Invasive Effect In Papillary Thyroid Cancer Cell Line	Bhabha Atomic Research Centre, Mumbai	Jigyasa Patel	6 Months	2019-20
8.	Biopriming of Flax Seed with <i>A. chroococcum</i> affect Invigoration and Germination indices under the treatment of PEG-6000	St. Aloysius College (Auto) Jabalpur	Bazeela Khan	6 Months	2029-20
9.	Assessment of ITS2 Region of Plant Genome for Quality Check of Powdered Herbal Medicine	St. Aloysius' College (Auto) Jabalpur	Gauravdeep Singh Gill	6 Months	2019-20



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10.	Isolation and Culture of Fibroblast Cell of <i>Capra hirus</i>	Animal Biotechnology Centre, Nanaji Deshmukh Veterinary Science University Jabalpur	Ms. Parul Upadhyay	6 Months	2019-20
11.	Preparatory activities for Assessment of Biomedical waste Management at HIV care settings in India	National AIDS Research Institute, Pune	Ms. Nikita Soni	6 Months	2019-20
12.	Isolation of Bacteria from Antarctic Soils	National Centre for Microbial Resource	Shraddha Patel	6 Months	2019-20
13.	Tamarind Species (Tamarindus indica)	Tropical Forest Research Institute	Sushma	6 Months	2019-20
14.	Species level Identification in Hibiscus by DNA Barcoding	St. Aloysius' College (Auto) Jabalpur	Ms. Surabhi Rawat	6 Months	2019-20
15.	Anti-diabetic effect of Syzygium cumini aqueous extract through modulation of endoplastic reticulum and oxidative stress in chronic streptozotocin induced diabetic rat model	CSIR – Central Drug Research Institute, Lucknow (U. P.)	Vaishali Mishra	6 months	2020-21
16.	In-vitro analysis of kidney and pancreatic changes in chronic diabetic retinopathic rat model, Targeted gene deletion in Schizosaccharomyces pombe genome DNA	CSIR – Central Drug Research Institute, Lucknow (U. P.)	Palak Yadav	6 months	2020-21
17.	Quality control in milk and milk products	Department of Jabalpur Sahkari Dugdh Sangh Maryadit, Jabalpur (M. P.)	Afia Qureshi	6 months	2020-21
18.	Assessment of bacterial thermophiles for enzyme activities under extreme condition	AKS University, Satna (M. P.)	Anamika Kushwaha	6 months	2020-21
19.	Improved cotyledonary node method using an alternative explant from mature seed for efficient Agrobacterium mediated Soyabean transformation, Soyabeab hairy root produce In-vitro by Agrobacteria rhizogenesmediated transformation, In-vitro evolution of Soyabean	ICAR –Indian Institute of Soyabean Research, Indore (M. P.)	Shaili Agrawal, Astha Tiwari, Aakrati Bhunjiya,	6 months	2020-21



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	D31-1131 Supported & Star Co	ingo sentine of part			
	bacterial endofytes against Macrophomina Phaseolina				
20.	In-vitro evolution of	ICMR- NIRTH, Bhopal	Aayushi Nagwanshi	6 months	2020-21
	bacterial endophytes against Macrophomina phaseolina	(M. P.)			
21.	Are the fried snacks	Excellent Bio Research	Meenu Patel	6 months	2020-21
21.	available in Jabalpur,	Pvt. Limited, Jabalpur	Wicena i atei	o months	2020-21
	microbiologically safe	(M.P.)			
22.	Occurrence of sickle cell	ICMR- National Institute	Miss Melisa Kujur	6 Months	2020-21
	disease among hospital	of Research in Tribal	J		
	referred patients	Health, Jabalpur (M. P.)			
23.	Study of Genetic Diversity	ICMR- National Institute	Monika Kumari	6 months	2020-21
	of Biomaker histidine-rich	of Research in Tribal			
	Protein 2 & 3 In Malaria	Health, Jabalpur (M. P.)			
	Parasite <i>Plasmodium</i>				
	falciparum				
24.	Anti-diabetic effect of	CSIR – Central Drug	Vaishali Mishra	6 months	2020-21
	Syzygium cumini aqueous	Research Institute,			
	extract through modulation	Lucknow (U. P.)			
	of endoplastic reticulum and				
	oxidative stress in chronic streptozotocin induced				
	diabetic rat model				
25.	In-vitro analysis of kidney	CSIR – Central Drug	Palak Yadav	6 months	2020-21
25.	and pancreatic changes in	Research Institute,	Turun Tuduv	o months	2020 21
	chronic diabetic retinopathic	Lucknow (U. P.)			
	rat model, Targeted gene				
	deletion in				
	Schizosaccharomyces pombe				
	genome DNA				
26.	_	Tropical Forest Research	Ms. Tanaya	6 months	2021-22
	transferability of SSR	Institute	Budholia		
	markers in Buchanania				
27.	cochenchinesis (Lour.) Standardization of DNA	Tropical Forest Research	Dogul Divit	6 months	2021-22
27.	extraction protocol and	Institute Institute	ratui Dixil	O IIIOIIIIIS	2021-22
	cross-amplification of	monuc			
	Hardwickia binata Roxb.				
28.	AMR Profiling of Unique	CSIR- Institute of	Shruti Ramje	6 months	2021-22
	and Bansal Poultry Farm of	Microbial Technology			
	Haryana (India): Lessons				
	from AMR Pattern among				
	Bird, Farm worker and				
	Family member				
29.	"Elucidation of Oligomeric	CSIR- Institute of	Jyotsana Patel	6 months	2021-22
	characteristics of MarR	Microbial Technology			
	family protein of				
	Mycobacterium tuberculosis"				
	tubeleulosis				



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30.	Comparitive evaluation of the DNA extraction methods for genomic DNA extraction of Dillenia pentagyna roxb.	Tropical Forest Research Institute	Meghna Gosh	6 months	2021-22
31.	Study of selected human G6PD mutations in malaria endemic tribal area of Rajasthan.	National Institute of Research in Tribal health	Priyansh Patel	6 months	2021-22
32.	Standardization of genomic DNA isolation and SSR- PCR conditions for Bambusa tulda	Tropical Forest Research Institute	Sita Charan Tiwari	6 months	2021-22
33.	"Effect of repeated heating on quality of edible sunflower oil"	Excellent Bio Research Solutions Pvt. Ltd, Jabalpur	Sagar Karsa	6 months	2021-22
34.	In vitro microrhizome induction in Acorus calamus Linn., a potential medicinal plant of the Western Ghats	Jawaharlal Nehru Tropical Botanic Garden and Research Institute, kerela	Megha Davis	6 months	2021-22
35.	Molecular Detection Of Densovirus in Anophline Species Of Central India	National Institute of Research in Tribal health	Ankita Singh	6 months	2021-22
36.	Molecular Identification of Mosquito species of Anopheline Genus of Madhya Pradesh ,India using COX1 Gene of Mitochondria.	National Institute of Research in Tribal health	Sneh Chouksey	6 months	2021-22
37.	Presence of Bacterial Pathogens in Milk based sweets being sold in Jabalpur	Excellent Bio Research Solutions Pvt. Ltd, Jabalpur	Shreen Khakha	6 months	2021-22
38.	Total genomic DNA extraction and Phytochemical screening of madhuca longifolia (Mahua) populations	Tropical Forest Research Institute	Nisha Kumari	6 months	2021-22
39.	Coconut oil versus Palm oil: Quality comparison and health implications	Excellent Bio Research Solutions Pvt. Ltd, Jabalpur	Shrutika Jha	6 months	2021-22
40.	Study on the pathogenesis of dengue viral disease	Vector Control Research Center, Pondicherry	P.Prima	6 months	2021-22
41.	Isolation, identification and molecular detection of E. coli	Nanaji Deshmukh Vetarinary Science University, Jabalpur	Yati Iyer	6 months	2021-22
42.	Study of pyrazinamide susceptibility in drugsensitive tuberculosis.	National Institute of Research in Tribal health	Grusha Kharbanda	6 months	2021-22



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43.	Isolation, Identification and Molecular detection of Staphylococcus aureus	Nanaji Deshmukh Vetarinary Science University, Jabalpur	Sonal Shrivas	6 months	2021-22
44.	Survey Collection and Antibacterial Screening of Ganoderma Lucidium	Design Innovation Centre RDVV Jabalpur	Jitendra	6 Months	2021-22
45.	Isolation and Identification of <i>Salmonella</i> in different spices	Excellent Bio Research Solution Pvt. Ltd JBP	Pradeep Singh Thakur	6 Months	2021-22
46.	Physical, Chemical and Microbiological Characterization of Drinking Water	Excellent Bio Research Solution Pvt. Ltd JBP	Mrs. Sushmita Shukla	6 months	2021-22
47.	Efficient Microbial Biocontrol Agents for important Soil & Root Pathogens in Tree Nursery	Tropical Forest Research Institute, JBP	Sonal Raikwar	6 months	2021-22
48.	Enzymatic Hydrolysis of Wheat Straw to Fermentable Sugars for Bioethanol Synthesis	CSIR- National Environmental Engineering Research Institute	Ishita Rai	6 Months	2021-22
49.	Endophytic Bacteria Isolation from <i>Musa</i> acuminata and Their Screening for Important Enzyme Production	AKS University Satna	Ms. Vincy Rajdwar	6 months	2021-22
50.	Assessment of Potential Antiviral Compounds Against Dengue Virus	CSIR- Central Drug Research Institute, Lucknow	Vaishali Vishwakarma	6 months	2021-22
51.		Design Innovation Centre RDVV Jabalpur	Niral Kumar Rajak	6 months	2021-22
52.	Potential of Antimicrabial Activity of <i>Hibiscus rosa-</i> <i>sinesis</i> Extracts Against Some Human Pathogenic Bacteria	Design Innovation Centre RDVV Jabalpur	Ayushi Motwani	6 months	2021-22
53.		Tropical Forest Research Institute Jabalpur	Nitasha Jhariya	6 months	2021-22
54.	Studies on Keratinophilic fungi from City of Jabalpur, Mahoba and Katni in Central India	Centre for Medical Mycology Jabalpur	Shivani Rajak	6 months	2021-22



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	DS1-1151 Supported & Star Co	nege scheme by DD1.			
55.	Mosquito species of Anopheline Genus of Madhya Pradesh ,India using COX1 Gene of Mitochondria.	ICMR,	Ankita Shrivastava	6 months	2021-22
56.	Effect of Microbial Innoculants on Nutrient Uptake, Yield of Soyabean (glycine max L.) and Available Nutrients in Soil	Department of Soil Science College of Agriculture, JNKVV Jabalpur	Iram Zehra Naqvi	6 months	2021-22
57.		ICMR,	Annamma Alex	6 months	2021-22
58.	Trichoderma Mediated Defense Priming in Wheat Under Different Time Intervals Against Bipolaris Sorokiniana	Banaras Hindu University	Niharika Tiwari	6 months	2021-22
59.	Isolationa and Molecular Characterization of Staphylococcus aureus from Milk Sample	Animal Biotechnology Centre, Nanaji Deshmukh Veterinary Science University, JNKVV JBP	Vaishnawi	6 Months	2022-23
60.	Studies on <i>in-vitro</i> rooting and DNA Isolation in <i>Bambusa vuigaris</i> (van green)	ICFRE- Tropical Forest Research Centre, JBP	Shubhangi Dalai	6 Months	2022-23
61.	Studies on <i>in-vitro</i> Culture establishment and rooting in <i>Bambusa balcooa</i>	ICFRE- Tropical Forest Research Centre, JBP	Pallavi Vishwakarma	6 Months	2022-23
62.	Isolationa and Molecular Characterization of Streptococcus agalactise from Milk Sample	Animal Biotechnology Centre, Nanaji Deshmukh Veterinary Science University, JNKVV JBP	Kanishka Uikey	6 Months	2022-23
63.	To study the Oasi Gene Expression in Reproductive Tract of Pregnant and Non- Pregnant Goat	Animal Biotechnology Centre, Nanaji Deshmukh Veterinary Science University, JNKVV JBP	Divya Surya	6 Months	2022-23
64.	Investigation of Antioxidant and Anti- cancer Properties of a Polyherbal Formulation	Bhabha Atomic Research Centre, Radiation Biology & Health Sciences Division	Dishita Bhatt	6 Months	2022-23



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65.	Exploring the antibacterial potency of 2- chlorophneylalanine C-terminus tagged antimicrobial peptide	CSIR- Central Drug Research Institute	Aporva Shrivas	6 Months	2022-23
66.	Proliferation response of T cells in tumour bearing mice	BARC- Bhabha Atomic research centre	Anjali Tripathi	6 Months	2022-23
67.	Logic Operation- based controlled movement of microbots for toxic pesticide degradation	Indian Institute of Information Technology, Allahabad	Aaresha Tausheed	6 Months	2022-23
68.	Isolation and identification of Salmonella species from chicken meat	Dept of Veterinary Microbiology College of Veterinary Science & Animal Husbandary N.D.V.S.U. JBP	Yamini Iyer	6 Months	2022-23
69.	Screening Selection and Isolation of the Cynobacterial Strains Collected from the Biofilms of the Pisanhari ki Madiya- Historical Monument	Dept of Biological Science RDVV, JBP	Vanshika Thakur	6 Months	2022-23
70.	Analysis of Antimicrobial Susceptibity of Isolate from UTI (Urinary Tract Infection)	Jabalpur Hospital and Research Centre	Uday Patel	6 Months	2022-23
71.	Effect of Various Herbs on Oral Pathogens with Special Reference to Enterococcus Faecalis	Excellent Bio Research Solutions Pvt Ltd Jabalpur	Shruti Gumasta	6 Months	2022-23
72.	Recombinant Protein Expression of Nucleocapsid of Japanese Encephalitis Virus in Prokaryotic Cell	Dept of Division of Virus Research and Therapeutics	Shreyashee Naveria	6 Months	2022-23
73.	Incidence of Urinary Tract Infection caused by E-Coil in Hospital Patient	City Hospital & Research Centre Pvt Ltd Jabalpur	Shivani Saket	6 Months	2022-23
74.	GC-MS Analysis, Antimicrobial Activity of Phytoconstituents from different Medicinal Plants and their <i>In-Silico</i> docking	Dept of Biological Science RDVV, JBP	Shivani Prajapati	6 Months	2022-23



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	studies Againt Bacterial Protein FTsZ (2VXY)				
75.	Molecular Identification of Wolbachia infection in wild-caught Anopheles species of Madhya Pradesh India	ICMR- National Institute of Research in Tribal Health JBP	Ruchi Naidu	6 Months	2022-23
76.	Development of resistance against colistin and its impact in fitness in Acinetobacter baumannii	ICMR- National Institute of Research in Tribal Health JBP	Pujita Rao	6 Months	2022-23
77.	Deciphering the Antimicrobial Sensitivity and Resistance Profiles of WHO Priority Escherichia Coli and Klebsiella pneumoniae	CSIR- Central Drug Research Institute	Pratiksha Tiwari	6 Months	2022-23
78.	*	ICMR- National Institute of Research in Tribal Health JBP	Deepraj Shukla	6 Months	2022-23
79.	Isolatina and Characterization of Cement Degrading Bacteris from Industrial Soil and Screening of their Efficacy for Biocementation	AKS University Satna, M.P.	Bedika Singh	6 Months	2022-23
80.	Chemical Synthesis and Evaluation of Chtosan Mediated Silver NPs and its Potential of Antibacterial Activity	Bio-Design Innovation Centre RDVV JBP	Ayushi Upadhyay	6 Months	2022-23
81.	•	Dept of Veterinary Microbiology College of Veterinary Science & Animal Husbandary N.D.V.S.U. JBP	Arti Tigga	6 Months	2022-23
82.	Screening, Selection And Isolation of Cynobacterial Strains from Biolfilms Collected from the Historical Monuments - Chousath Yogini Mandir	Dept of Biological Science RDVV, JBP	Ankita Maravi	6 Months	2022-23



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83.	hyaluronic acid by	Indian Institute of Technology BHU,	Anjali Tiwari	6 Months	2022-23
	Stretococcus zooepidemicus	Varanasi			
84.	Occurrence of Pre-XDR among the MDR-TB patients Referred from Health Care Centres of Jabalpur and Rewa Division	ICMR- National Institute of Research in Tribal Health JBP	Alok Ranjan Joshi	6 Months	2022-23
85.	Enumerating IVT/AP-1 for Therapeutic, prophylactic and Immunomodulatory potential I Typhoid induced rodent model	C.S.I.R. Central Institute of Medicinal and Aromatic Plants Lucknow	Akansha Verma	6 Months	2022-23
86.	Isolation of the Cynobaterial Strains collected from the Biofilms of the Madan Mahal Fort- Historical Monument	Dept of Biological Science RDVV, JBP	Aditi Dubey	6 Months	2022-23
87.	Effect of different organic, inorganic manure and biofertilizer on seed germination and seedling growth of Pisum sativum	Department of Biological sciences, RDVV, Jabalpur.	Amartya Patra	6 Months	2023-24
88.	Development of alcohol tolerance yeast and their assessment of fermentation efficiency.	National Sugar Institute, Kanpur, U.P.	Anjali Yadav	6 Months	2023-24
89.	Isolation, molecular detection and antimicrobial susceptibility of Klebsiella spp. from human and dog urinary tract infections	Nanaji Deshmukh Veterinary Science University, Jabalpur.	Genisha Jose	6 Months	2023-24
90.	Isolation and evaluation of different microflora for degradation of biomass	National Sugar Institute, Kanpur, U.P	Heer Thakkar	6 Months	2023-24
91.	Effect of different organic, inorganic manure and on seed germination and seedling growth of wheat	Department of Biological sciences, RDVV, Jabalpur.	Jyoti Choudhary	6 Months	2023-24



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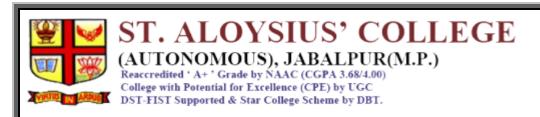
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92.	Effect of different organic, inorganic manure and biofertilizers on seed germination and growth of	Department of Biological sciences, RDVV, Jabalpur.	Jyoti Paraste	6 Months	2023-24
93.	Trigonellafoenumgraecum Effect of different manure and biofertilizers on Raphanussativus seed germination	Department of Biological sciences, RDVV, Jabalpur.	Kiran Pitaniya	6 Months	2023-24
94.	Isolation and identification of fungal pathogen from neem leave and test their antagonist activity against <i>Trichoderma</i>	Tropical Forest Research Institute, Jabalpur	Pinky Nagpal	6 Months	2023-24
95.	microbial analysis of the super food millets (jowar)	Department of Botany & Department of Botany & Department of Botany & St. Aloysius College (Autonomous), Jabalpur	Prateeksha Mishra	6 Months	2023-24
96.	Isolation, molecular detection and Antimicrobial susceptibility of E. coli from Human and Dog urinary tract infection	Nanaji Deshmukh Veterinary Science University, Jabalpur.	Sheetal Shrivas	6 Months	2023-24
97.	Isolation and identification of fungal pathogen from different parts of bamboo plant and test their antagonistic activity against <i>Trichoderma</i> .	Tropical Forest Research Institute, Jabalpur.	Shikha Pandey	6 Months	2023-24
98.	Development and assessment of temperature tolerant yeast strains.	National Sugar Institute, Kanpur, U.P	Shubhi Bhagwat	6 Months	2023-24
99.	Bakery product	Excellent Research Lab Jabalpur	Aman Nanda	6 Months	2023-24
100	Plant Tissue Culture (Ex vitro regeneration of root)	Tropical forest research institute Jabalpur	Aastha Pandey	6 Months	2023-24



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101.	DNA Isolation from plants	State Forest Research Institute Jabalpur (SFRI)	Nishikant Dhurwey	6 Months	2023-24
103.	DNA Extraction from Medical Plant	SFRI State Forest Research Institute Jabalpur MP	Pradeep Maravi	6 Months	2023-24
104.	DNA isolation from medical plant	SFRI State Forest Research Institute Jabalpur	Anmol Lucky Ekka	6 Months	2023-24
105.	Isolation and purification of DNA by plant cell	State forest research institute	Muskan Singh	6 Months	2023-24
106.	Biological Effects of Auger Electron Emitting Radiopharmaceuticals	Bhabha Atomic Research Center	Himanshi	6 Months	2023-24
107.	Biochemical dalbergia latifolia	Tropical forest research institute	Abhishek Soni	6 Months	2023-24
108.	Bio - evaluation of Radioimmunotheraputic agent.	Bhabha atomic research center Mumbai	Pradeep Singour	6 Months	2023-24
109.	Macro propagation in sisum species	T. F. R. I	Harshita Jain	6 Months	2023-24
111.	Antibacterial and anti-cancer properties of oxide plant extract in core shell	Raja Ramman center for advanced technology Indore	Priya Chouksey	6 Months	2023-24
112.	To investigate the antimicrobial effect of probiotic biofilm and various applications	Raja Rammana Centre for Advance Technology	Sneha Gupta	6 Months	2023-24
113.	Multiple foreign gene expression in plants as polycistronic constructs	Bhabha atomic research centre	Aashi Vishwakarma	6 Months	2023-24



Miss Anjana Marko

ICMS
INCOME COUNCIL OF MEDICAL PERSANCIA

HANGHAL PASSITUTE OF RESEAUTH IS THEAL ISSAUTH

आईसीएमआर-राष्ट्रीय जनजातीय स्वास्थ्य अनुसंधान संस्थान स्वास्थ्य अनुसंधान विभाग, स्वास्थ्यऔर परिवार कल्याण मंत्रालय, भारत संरकार

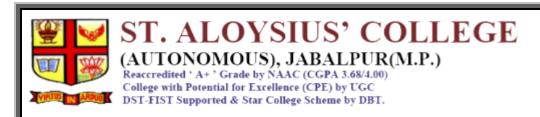
ICMR - National Institute of Research in Tribal Health Department of Health Research, Ministry of Health and Family Welfare, Government of India

June 2020

CERTIFICATE

This is to certify that the dissertation work entitled "Study on detection of Dengue Virus RNA and Serotyping of Dengue using Whatman Filter Paper" submitted by Miss. Anjana Marko for the partial fulfilment of the degree of masters of science and biotechnology (2020) from St. Aloysius college (Autonomus) Jabalpur (M.P.). She has completed the dissertation work under my guidance at Indian Council of Medical Research (ICMR) National Institute for Research in Tribal Health (NIRTH) Nagpur road, Jabalpur (M.P.) from January 2020 to June 2020. The matter includes in this thesis has not been submitted for award of any other degree.

Dr. P. V. Barde, Scientist E, ICMR-NIRTH JABALPUR



Ms. Ekta Rao



आई सी एम आर—राष्ट्रीय जनजाति स्वास्थ्य अनुसंघान संस्थान स्वास्थ्य अनुसंघान विमाग, स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार

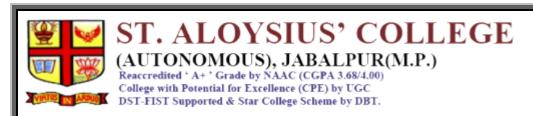
> ICMR - National Institute of Research in Tribal Health Department of Health Research, Ministry of Health and Family Welfare, Government of India

TO WHOM IT MAY CONCERN

This is to certify that dissertation work entitled "Molecular Characterization of Beta Thalassemia Mutation" was completed during six-month (January-June 2020) under my guidance by Ms Ekta Rao, M.Sc. (Biotechnology) Semester-IV, Department of Biotechnology, St. Aloysius College, Jabalpur, (M.P.) towards the partial fulfillment of Master of Science in Biotechnology.

Dr. Ravindra Kumar Scientist B

Date: 2 30/2 2020



Miss G. Hemlata



Dr. A.P. Singh M.V.Sc., Ph.D. Associate Professor & I/c Director

ANIMAL BIOTECHNOLOGY CENTRE

NANAJI DESHMUKH VETERINARY SCIENCE UNIVERSITY, JNKVV Campus, Krishi Nagar, Adhartal, JABALPUR (Madhya Pradesh)

> Email.: ajitvet123@gmail.com Mob. No.: 93026 12206

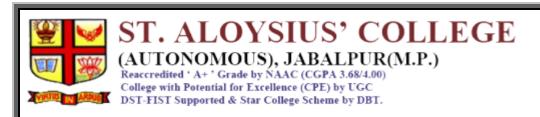
> > Date: 11/08/2020

CERTIFICATE

This is certify that the dissertation work entitled "DNA isolation and PCR amplication of GAPDH gene of Capra hircus" submitted by Miss. G. HEMALATA for the partial fulfillment of degree M.Sc. (Biotechnology) 2020 from St. Aloysius College (Autonomous) Jabalpur (M.P.). She has completed the dissertation work under my guidance at Animal Biotechnology Centre, Nanaji Deshmukh Veterinary Science University, Jabalpur (M.P.) from January 2020 to August 2020. The matter include in this thesis has not been submitted for award of any other degree.

Dr. Ajit Pratap Singh

Associate Professor cum Senior Scientist Animal Biotechnology Centre NDVSU, Jabalpur



Ms. Nikita Soni



राष्ट्रीय एउस् अनुसंधान संस्थान

NATIONAL AIDS RESEARCH INSTITUTE (भारतीय प्रायुर्विशान अनुसंधान परिषद)

(Indian Council of Medical Research)

(Department of Health Research, Ministry of Health and Family Welfare, Govt. of India) (WHO Collaborating Centre for HIV Diagnosis and Monitoring of Antiretroviral Therapy)

NAR1/SH/20-21/807



Date: 24th June 2020

CERTIFICATE

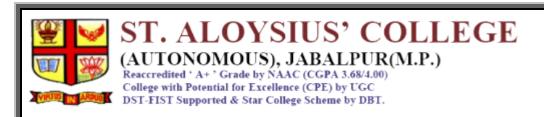
This is to certify that Ms. Nikita Soni student of "St. Aloysius college, Jabalpur, Madhya Pradesh" has completed the project entitled "Preparatory activities for assessment of Biomedical waste management at HIV care settings in India" at "Indian in Council of Medical Research-National AIDS Research Institute, Pune" under the guidance of Dr. Suchit V Kamble, MD, DPH, Scientist-E, Division of Epidemiology and Biostatistics, from "January 2020 to June 2020" academic requirement of her post-graduation. We observed that her work was satisfactory and we appreciate her sincere learning. She has completed the project with energy and enthusiasm.

"I wish her all the best for all your future endeavours".

24/6/2020

Dr. Suchit V Kamble, MD, DPH Scientist E & Principal Investigator. Division of Epidemiology and Biostatistics, ICMR-National AIDS Research Institute, Pune

Note: Due to COVID-19 pandemic and lockdown for the same in Pune and Pimpri-Chinchwad city from 22'dMarch 2020, she has completed her thesis from home through online mode till date.



Rajeshwari Narkullu



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TROPICAL FOREST RESEARCH INSTITUTE



(Indian Council of Forestry Research & Education)

(An Autonomous Council under the Ministry of Environment & Forests, Govt. of India)

Genetics & Plant Propagation Division

P.O. – R.F.R.C, JABALPUR – 482 021 (M.P.)

CERTIFICATE

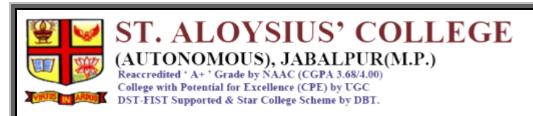
This is to certify that the work done for the dissertation, entitled "STUDY ON TISSUE CULTURE IN Bamboos species" (Bambusa bambos and Dendrocalamus strictus) submitted partial fulfillment for the degree of "Masters of Science in Biotechnology", St. Aloysius' College (Autonomous) Jabalpur M.P., is a bonafied record of research project carried out by Rajeshwari Narkallu under my supervision at Genetics and Plant Propagation Division, Tropical Forest Research Institute, Jabalpur

(Dr. Fatima Shirin)

Supervisor

Scientist-F, HOD

Genetics and Plant Propagation Division TFRI, Jabalpur



Ms. Sakshi Jaiswal



vkbZlh,evkj&jk"V^ah; tutkfrLokLF;vuqla/kkulaLFkku LokLF; vuqla/kkufoHkkx] LokLF; ,oaifjokj dY;k,kea=ky;] Hkkjrljdkj

ICMR - National Institute of Research in Tribal Health

Department of Health Research, Ministry of Health

and Family Welfare, Government of India TO WHOM IT MAY CONCERN

This is to certify that dissertation work entitled "Prevalence of various hemoglobinopathies among pregnant women attending NSCB Govt Medical College, Jabalpur" was completed during six-months (January-June, 2020) under my supervision by Ms Sakshi Jaiswal, M.Sc. (Biotechnology) Semester-IV, Department of Biotechnology, St. Aloysius College, Jabalpur, (M.P.) towards the partial fulfillment of Master of Science in Biotechnology.

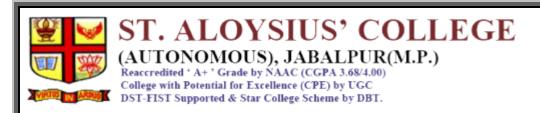
Date: 10 July 2020 Rajasubramaniam

Scientist E Head, Division of Genetic Disorders Dynduk enenian

Dr

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&



Ms. Jigyasa Patel



GOVERNMENT OF INDIA BHABHA ATOMIC RESEARCH CENTRE

Radiation Medicine Centre

T.M.H. Annexe, Parel, Mumbai 400012. Ph: +91-22-24149428/25505050. Fax: +91-22-24157098/25505151

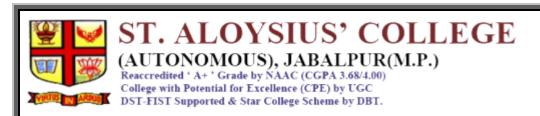
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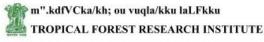
This is to certify that Ms. Jigyasa Patel student of St. Aloysius College Jabalpur M.P was selected as a short term trainee at the Radiation Medicine Centre, Bhabha Atomic Research Centre, for the period January 2020 to March 2020. She has successfully completed the Research Project entitled "Kaempferol Induced Cytotoxic And Anti- Invasive Effect In Papillary Thyroid Cancer Cell Line." under the guidance of Mr. Devavrat Tripathi.

The work carried out is in partial fulfillment of Master's Degree in Science in Biotechnology for the academic year 2019-2020.

Guide: Mr. Devavrat Tripathi Scientific Officer- E Dr. Sharmila Banerjee Head, Radiation Medicine Centre



Ms. Sushma





(Indian Council of Forestry Research & Education)

(An Autonomous Council under the Ministry of Environment & Forests, Govt. of India)

Genetics & Plant Propagation Division P.O. – R.F.R.C, JABALPUR – 482 021 (M.P.)

CERTIFICATE

This is to certify that the work done for the dissertation, entitled "Tamarind Species (Tamarindus indica) submitted partial fulfillment for the degree of "Masters of Science in Biotechnology", St. Aloysius' College (Autonomous) Jabalpur M.P., is a bonafied record of research project carried out by Sushma under my supervision at Genetics and Plant Propagation Division, Tropical Forest Research Institute, Jabalpur

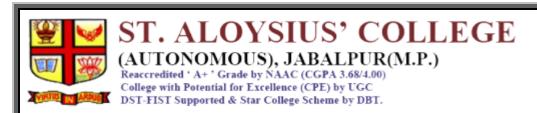
(Dr. Fatima Shirin)

Supervisor

Scientist-F, HOD

Genetics and Plant Propagation Division TFRI, Jabalpur

2

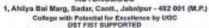


Miss Surabhi Rawat



ST. ALOYSIUS' COLLEGE

AUTONOMOUS





College with Potential for Excellence by UGC OST PIST SUPPORTED PROSECTION OF THE PROSECTION OF THE COLLEGE OF

CERTIFICATE

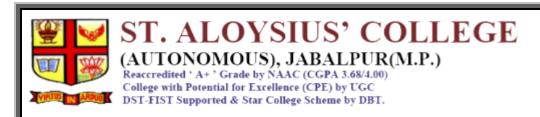
This is to certify that Miss Surabhi Rawat who is a regular student of M.Sc. IV semester (Biotechnology) of this college has successfully carried out her dissertation work entitled "Species level Identification in Hibiscus by DNA Barcoding " under the supervision of Dr. Laxmi Kant Pandey (Head of the Department), St. Aloysius' College (Autonomous) Jabalpur (M.P.).

This dissertation is submitted for partial fulfilment for an award of the degree Master of Science in Biotechnology to St. Aloysius College (Autonomous) Jabalpur (M.P.).

Rev. Dr. G. Vazha Arasu

principal

St. Aloysius college jabalpur



Ms. Shraddha Patel



National Centre for Microbial Resource

Member of WFCC, An IDA under Budapest Treaty, DNR of MoEF

राष्ट्रीय कोशिका विज्ञान केंद्र | National Centre for Cell Science

CERTIFICATE

This is to certify that the dissertation entitled "Isolation of Bacteria from Antarctic Soils" is submitted to St. Aloysius College (Autonomous) Jabalpur, Madhya Pradesh in partial fulfillment of the requirement for the award of Degree of Master of Science in Biotechnology, is a record of the bonafide work done by Shraddha Patel during the period January 2020 to March 2020 at NCCS-NCMR, Pune, under my supervision and that the dissertation has not formed the basis for the award of any degree/ diploma or any other similar titles.

राष्ट्रीय सूक्ष्मजीव संपदा केंद्र

Date: August 10, 2020 Place: Pune Research Supervisor Research Supervisor (Dr. Avinash Sharma)

2

Ms. Parul Upadhyay



ANIMAL BIOTECHNOLOGY CENTRE

NANAJI DESHMUKH VETERINARY SCIENCE UNIVERSITY, JNKVV Campus, Krishi Nagar, Adhartal, JABALPUR (Madhya Pradesh)

> Email.: ajitvet123@gmail.com Mob. No.: 93026 12206

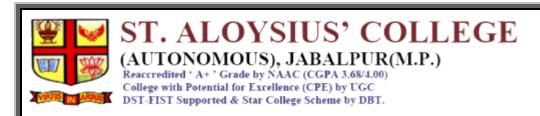
> > Date: 11/08/2020

CERTIFICATE

This is certify that the dissertation work entitled "Isolation and Culture of Fibroblast Cell of Capra hircus" submitted by Miss. PARUL UPADHYAY for the partial fulfillment of degree M.Sc. (Biotechnology) 2020 from St. Aloysius College (Autonomous) Jabalpur (M.P.). She has completed the dissertation work under my guidance at Animal Biotechnology Centre, Nanaji Deshmukh Veterinary Science University, Jabalpur (M.P.) from January 2020 to August 2020. The matter include in this thesis has not been submitted for award of any other degree.

Dr. Ajit Pratap Singh

Associate Professor cum Senior Scientist Animal Biotechnology Centre NDVSU, Jabalpur



Gauravdeep Singh Gill



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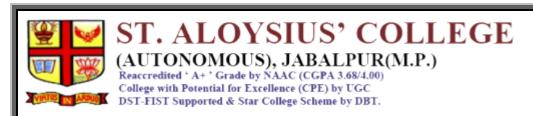


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CERTIFICATE

This is to certify that Gauravdeep Singh Gill, has successfully completed the dissertation work entitled "Assessment of ITS2 Region of Plant Genome for Quality Check of Powdered Herbal Medicine" as a part of his/her curriculum in semester IV during academic year 2018- 2020. This project is up to the standard for the submission as Masters of Science in Biotechnology. He is a bonafide student of St. Aloysius' College and is currently pursuing M.Sc in Biotechnology.

> Rev. Dr. G. Vazhan Arasu Principal St. Aloysius College Jabalpur



Ms. Fiza Tarannum



NARI SU 20-21 / 806

Date-24th June 2020

CERTIFICATE

This is to certify that Ms. Fiza Taranaum student of "St. Aloyaius College, Jabalpar, Madbya Pradesh" has completed the project entitled "Proparatory activities for assessment of airborne infection control (Tuberculosis) measures at ART Centers in India" at "Indian Council of Medical Research-National AIDS Research Institute, Pune" under the guidance of "Dr. Suchit V. Kumble, MD, DPH, Scientist E, Division of Epidemiology and Biostatistics" from "January 2020 to June 2020" as an academic requirement of her post-graduation. We have observed that her work was satisfactory and we appreciate her sincere learning. She has completed the project with energy and Enthysiasm.

"I wish her all the best for all her future endeavors."

24/6/2020

Dr. Suchit V Kamble, MD, DPH, Scientist E & Principal Investigator, Division of Epidemiology and Biostatistics, ICMR-National AIDS Research Institute, Pune.

Note: Due to COVID-19 pandemic and lockdown for the same in Pune and Pimpiri-Chinchwad city from 22nd March 2020, she has completed her thesis from home through online mode till date.



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2

Ms. Bazeela Khan



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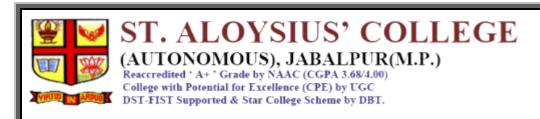
This is to certify that Ms.Bazeela Khan who is a regular student of M.Sc. IV semester (Biotechnology) of this college has successfully carried out her dissertation work entitled "Biopriming of Flax Seed with A.chroococcum affect Invigouration and Germination indices under the treatment of PEG -6000" under the supervision of Mrs. Yasmin Banu (Assistant Professor) Department of Biotechnology, St. Aloysius' College (Autonomous) Jabalpur (M.P.).

This dissertation is submitted for partial fulfilment for an award of the degree Master of Science in Biotechnology to St. Aloysius College (Autonomous) Jabalpur (M.P.)

Rev.Dr.G.Vazhan Arasu

Principal

St.Aloysius College (Autonomous) Jabalpur, (M.P.)



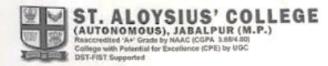
Ms. Aayushi Nagwanshi

PROGNOSTIC POTENTIAL OF A SELECTED PANEL OF CELL FREE CIRCULATING INCRNAS IN ENVIRONMENTAL LINKED CARDIOVASCULAR DISEASES.

A

Thesis Submitted for the Degree of

MASTER OF SCIENCE IN MICROBIOLOGY



St. ALOYSIUS COLLEGE (AUTONOMOUS), JABALPUR

Submitted by

Ms. AAYUSHI NAGWANSHI

Supervisor

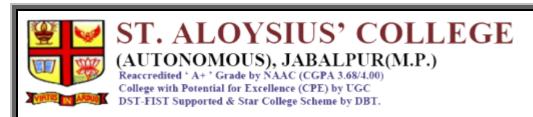
Dr. PRADYUMNA KUMAR MISHRA

Fulbright-Nehru Fellow, AIMF Fellow (DBT-Wellcome Trust & AAS), FAMS
Head, Department of Molecular Biology

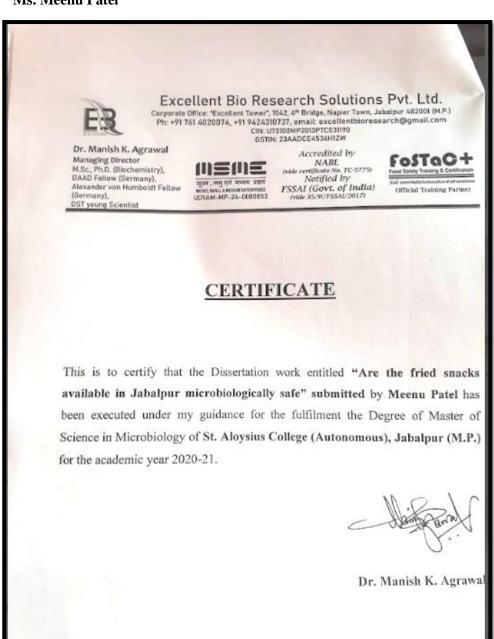


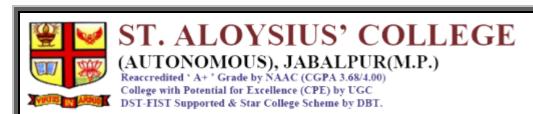
ICMR - National Institute for Research in Environmental Health

Bypass Road, Bhauri, Bhopal - 462 030 (MP), India

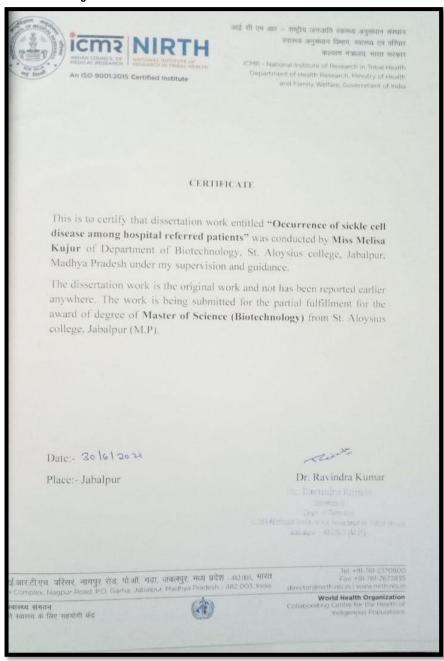


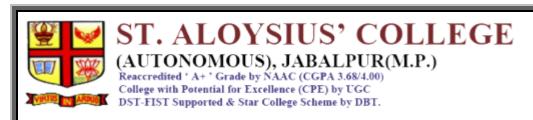
Ms. Meenu Patel



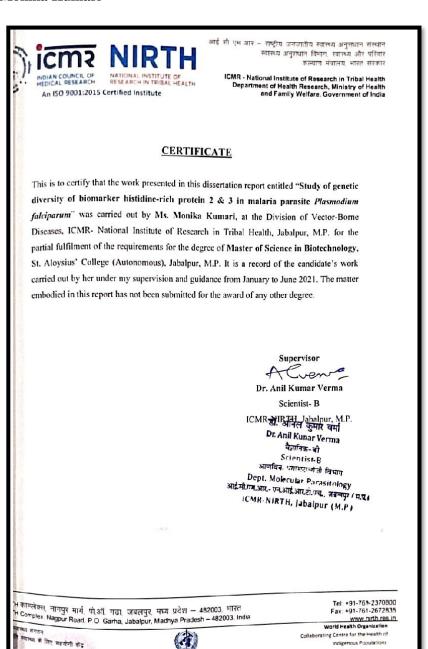


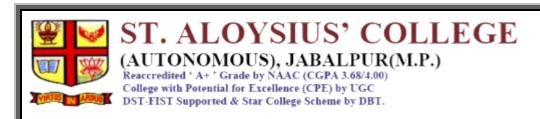
Miss Melisa Kujur



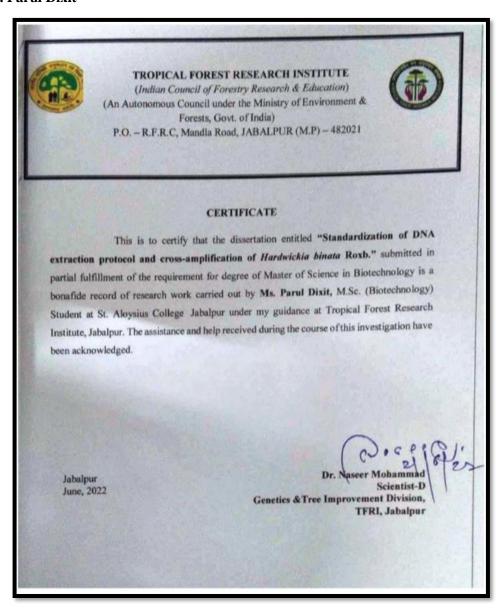


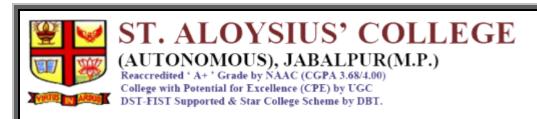
Ms. Monika Kumari



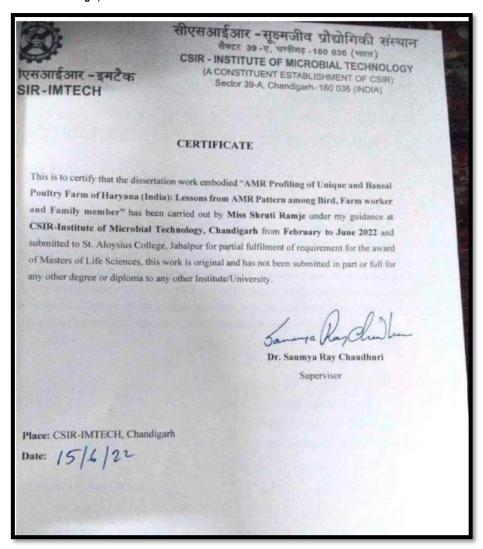


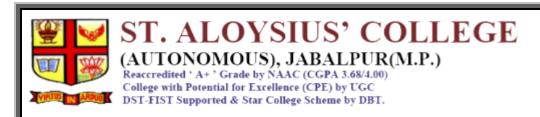
Ms. Parul Dixit



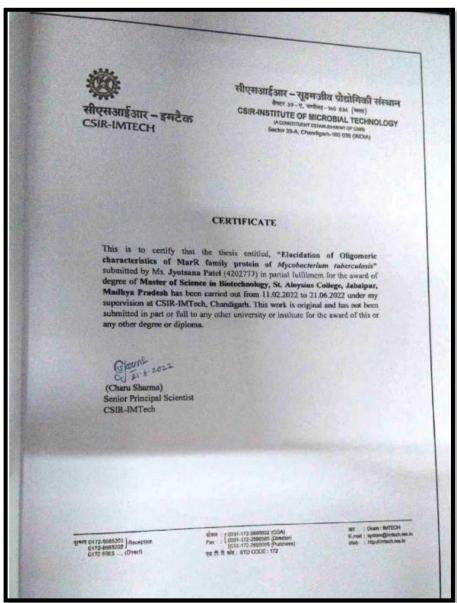


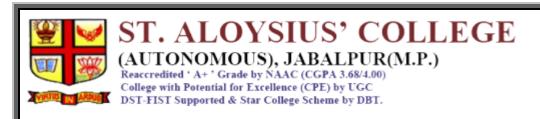
Miss Shruti Ramje



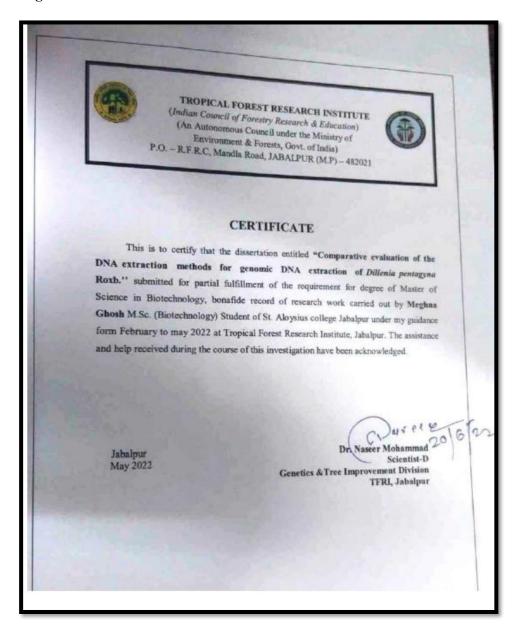


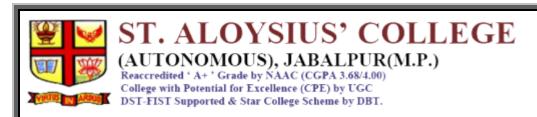
Ms. Jyotsna Patel



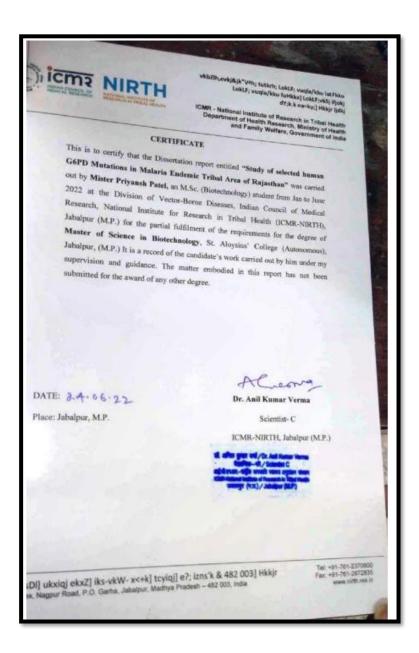


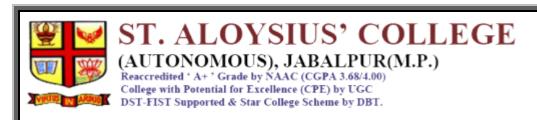
Ms. Meghna Ghosh



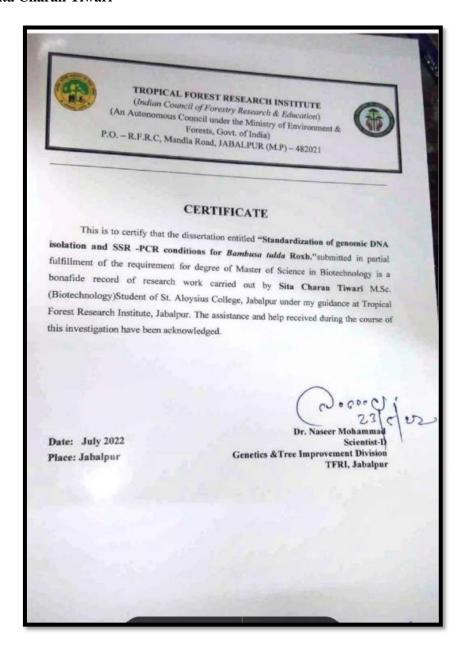


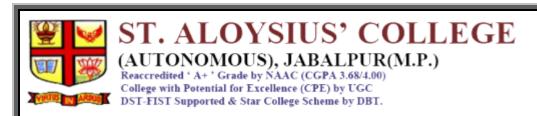
Mr. Priyansh Patel





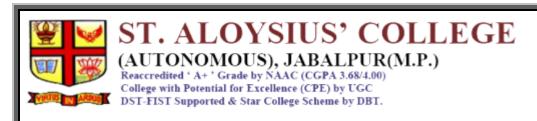
Sita Charan Tiwari



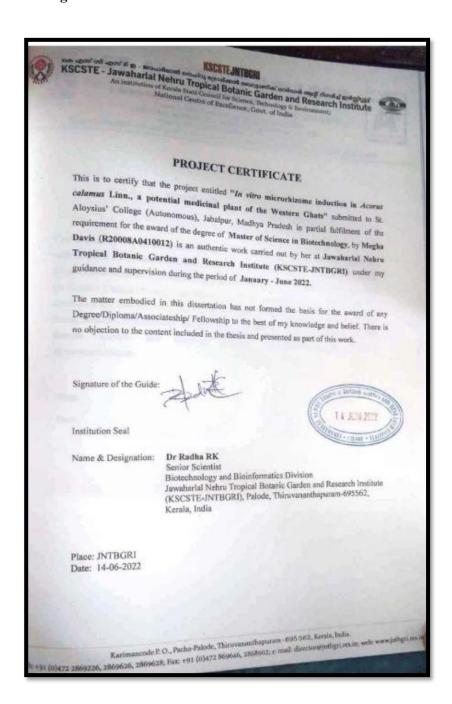


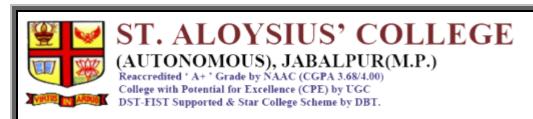
Sagar Karsa



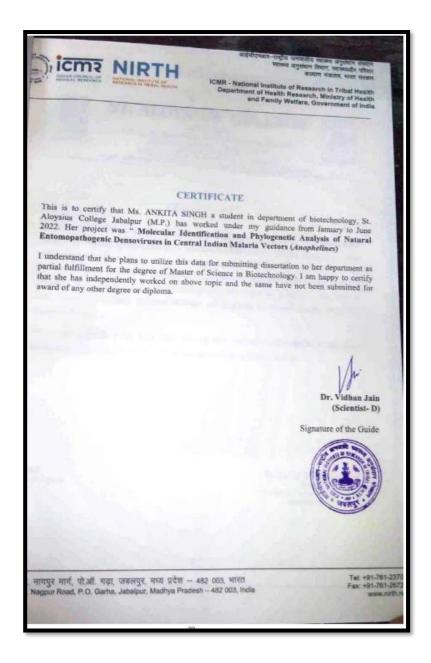


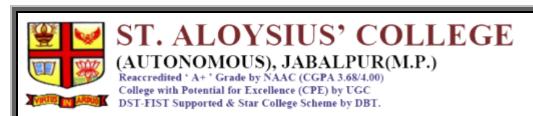
Ms. Megha Davis



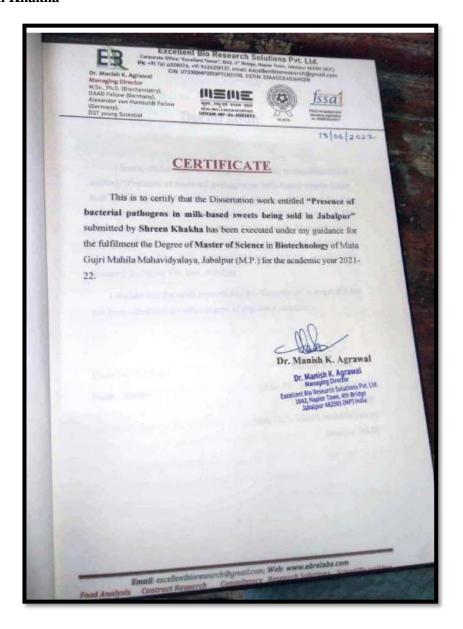


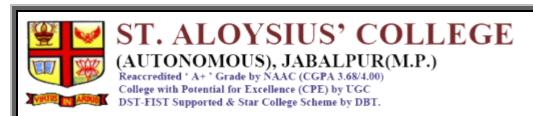
Ms. Ankita Singh



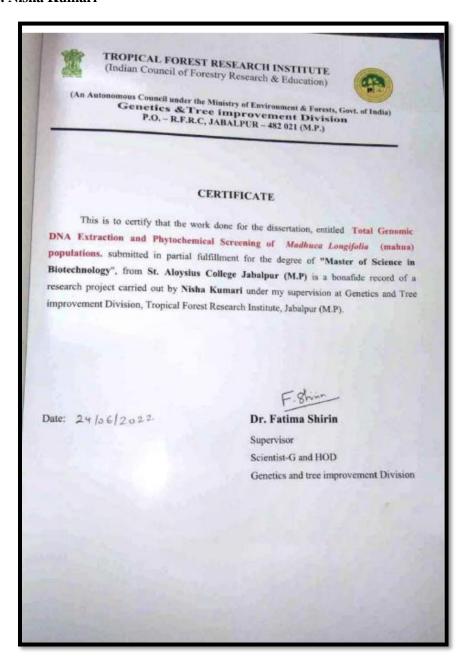


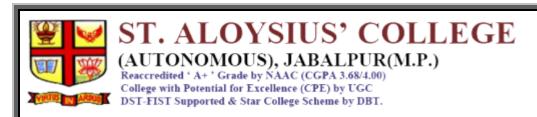
Shreen Khakha



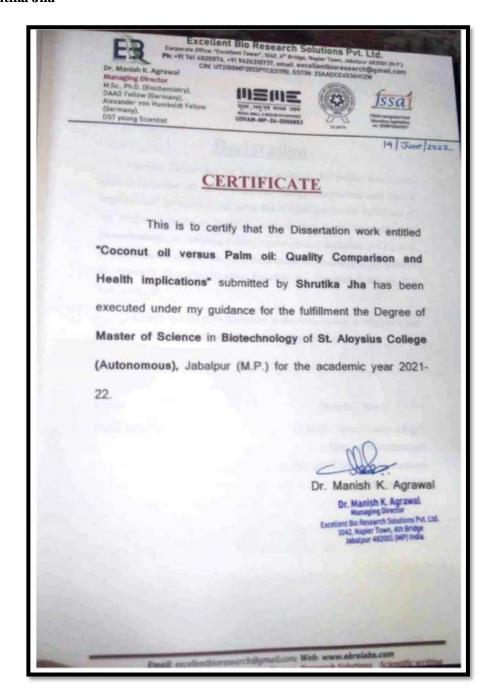


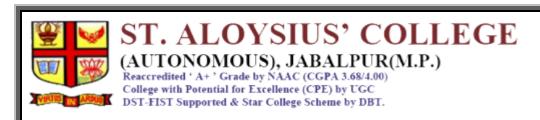
Ms. Nisha Kumari



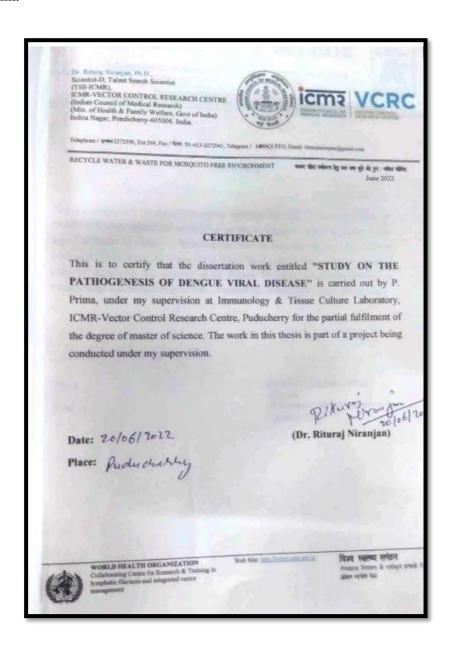


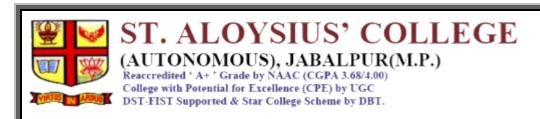
Shrutika Jha



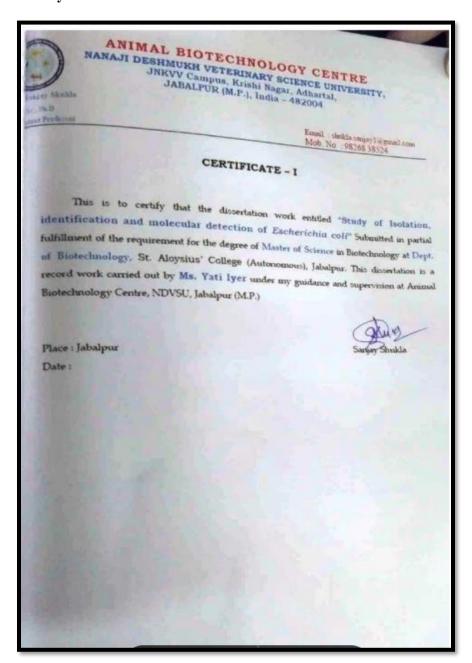


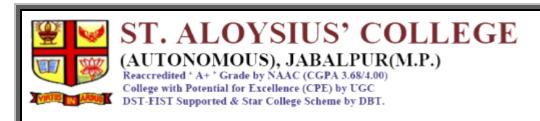
P. Prima



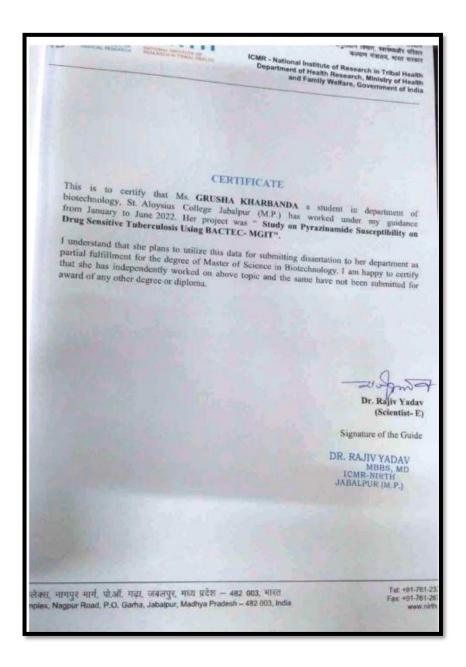


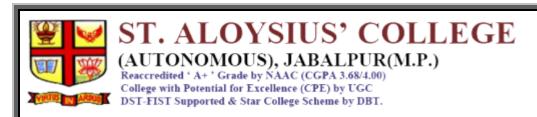
Ms. Yati Iyer



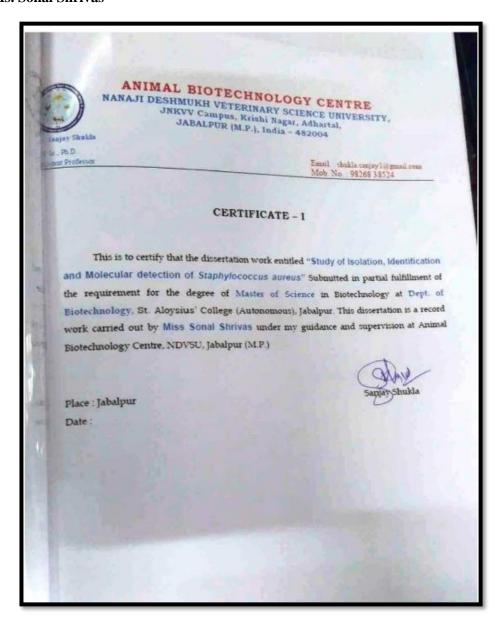


Ms. Grusha Kharbanda





Ms. Sonal Shrivas





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(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited ' A+ ' Grade by NAAC (CGPA 3.68/4.00) College with Potential for Excellence (CPE) by UGC DST-FIST Supported & Star College Scheme by DBT.

Jitendra



Prof. Sardul Singh Sandhu

M.Sc., M.Phil., Ph.D., D.Sc. & F.B.S. Director, Design Innovation Center (Sponsored by MoE, Clovt. of India)

Former Dean, Faculty of Life Science, R. D University

Monash University Australia; Sau Paulo University, Brazil; University Of Campinas, Brazil; Fellowships: UNESCO France, TWAS/CNPq (Beazil); DBT and UGC New Delhi, India.

Former Governor's Nominee, Sirsa University, Sirsa. Former Executive Council Member, G. J. University, Hisar. Former Director General, M.M. University, Ambala. Former Director, C.S.R.D., People's Group, Bhopal. Former Dean Students Welfare, R.D.University, jabalpur Former Chairman BOS-Microbiology, R.D. University.

LAB: Fungal Biotechnology & Invertebrate Pathology, Department of Biological Sciences, Rani Durgavati University, Jabalpur – 482001 (M.P.) INDIA

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Date 06/06/ 2022

Page 46

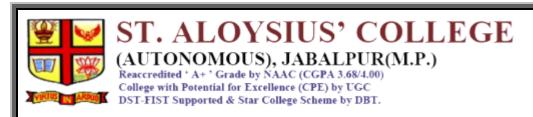
CERTIFICATE

This is to certify that the work entitled "SURVEY, COLLECTION AND ANTIBACTERIAL SCREENINIG OF GANODERMA LUCIDIUM" is a dissertation work carried out by Jitendra, Master of Science (M.Sc. 4th Sem.), Department of Microbiology, St. Aloysius College, Jabalpur has duly completed his work under my guidance and supervision. No part of this dissertation has been submitted elsewhere for any other degree or diploma. He has done his work sincerely.

Prof. S.S.Sandhu

Director (DIC)

R.D.University, Jabalpur (M.P.)



Pradeep Singh Thakur



Corporate Office "Excellent Tower", 3542, 4" Bridge, Namer Town, Jahotsur 482001 (M.P.)
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CIN UT3300MP2013PTC031190, GSTINE 23AADCE4536HIZW

Dr. Manish K. Agrawal Managing Director M.Sc. Ph.D. (Biochemistry), DAAD Fellow (Bermany), Alexander von Humboldt Fellow (Germany), DST young Scientist







CERTIFICATE

This is to certify that the Dissertation work entitled "Isolation and Identification of Salmonella in different spices" submitted by Pradeep Singh Thakur has been executed under my guidance for the fulfilment the Degree of Master of Science in Microbiology of St. Aloysius College (Autonomous), Jabalpur (M.P.) for the academic year 2021-22.

Dr. Manish K. Agrawal

Dr. Manish K. Agrawal Managing Director Excellent Bio Research Solutions Pvt. Ltd. 1042, Napier Town, 4th Bridge Jabalpur 482001 (MP) India

Page 47

Mrs. Sushmita Shukla



Excellent Bio Research Solutions Pvt. Ltd.

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Dr. Manish K. Agrawal Managing Director
M.Sc., Ph.D. (Biochemistry),
DAAD Fellow (Germany),
Alexander von Humboldt Fellow (Germany). **DST young Scientist**







CERTIFICATE

This is to certify that the Dissertation work entitled "Physical, chemical and microbiological characterization of drinking water "submitted by Mrs. Sushmita Shukla has been executed under my guidance for the fulfilment the Degree of Master of Science in Microbiology of St. Aloysius College (Autonomous), Jabalpur (M.P.) for the academic year 2021-22.

> Dr. Manish K. Agrawal Dr. Manish K. Agrawal Managing Director Excellent Bio Research Solutions Pvt. Ltd. 1042, Napier Town, 4th Bridge Japalpur 482001 (MP) India

Ms. Ishita Rai



सी.एस.आई.आर.-राष्ट्रीय पर्यावरण अभिवात्रिकी अनुसंधान संस्थान देशकि का श्रेष्टीक अनुभाग पाँच्य, विकार व वेद्यीकी प्राप्त, आरू शावण, CSIR-National Environmental Engineering Research Institute (Council of Scientific & industrial Research, Ministry of SAT, Goot of India) नेहरूमार्थ नाजुर 42000 Nehru Marg, Nagour – 440020, गरत India



Dr. K. A. Sohony
Scientist & Head
Human Resource Development Division
Email: ra_sohony@neeri res in

ठॉ. आर. ए. सोहोनी वैज्ञानिक और प्रमुख मानव संसाधन विकास प्रभाग EPBX (91) (712) 2248856-88, Ext. 448

CERTIFICATE

This is to certify that Ms. Ishita Rai, a student of M.Sc. Microbiology, St. Aloysius College (Autonomous), Jabalpur, Madhya Pradesh, has carried out the dissertation titled "Enzymatic hydrolysis of wheat straw to fermentable sugars for bioethanol synthesis" under the guidance of Dr. Abhay Bajaj, Senior Scientist, EBGD, CSIR-NEERI, Nagpur during 10th February, 2022 to 31th May, 2022.

The work carried out under this project is to be used only for academic purpose and prior permission of CSIR-NEERI is required before publishing this work.

We wish her all the best for future endeavors.

Place: Nagpur Date: 02.06.2022 द्वा. आर. ए. लेक्टेनी / Dr. R.A. Sohony करिए का उन्स् एक मार्थ है / South & Red, सर्वे स्थानन मानापान विकास प्रभात संस्थान विकास किल्के का प्रभात के स्थान के इस उस न्या (स्मान-४०) 200 Ms. Vincy Rajdwar



Ref.: AKSU/DBT/CEBRT/2022/01

Date: 04 June 2022

CERTIFICATE

This is to certified that the training report entitled "Endophytic bacteria isolation from Musa acuminata and their screening for important enzyme production" which is being submitted by Ms. Vincy Rajdwar, St. Aloysius college, Jabalpur in the partial fulfillment for the award of Master of Science in Microbiology is a record of candidate's own work carried out by her, in the Department of Biotechnology, CEBRT Lab at AKS University, Satna. The matter embodied in this report has not been submitted elsewhere for the award of degree/diploma in any other Institute/University.

We wish her for best future ahead.

Dr. Kamlesh Choure Professor & Head Department of Biotechnology AKS University, Satna (M.P.)

inj. Panns Road, SATNA-485001 (M.P.) INDIA ©09581124716, 08889537776, Fax : 07672-404716 Website-www.aksuniversity.ac.ir .S. University is dedicated to Uniqueness, Excellence, Creativity, Innovation & Perfection



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वैद्यानिक तथा औद्योगिक अनुसंघान परिषद् COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH

Certificate

This is to certify that the dissertation/research work embodied in this thesis entitled "Assessment of Potential Antiviral Compounds Against Dengue Virus" has been carried out at the Division of Virus Research and Therapeutics, CSIR-Central Drug Research Institute, Lucknow, India. This work is original and no part of this thesis has been submitted for the award of any other diploma or degree to any other university.

Date: 04.06.2022

Dr. Rahul Shukla, Ph.D.,

Scientist,
Division of Virus Research and Therapeutics,
CSIR-CDRI, Lucknow-2260 31
(India)

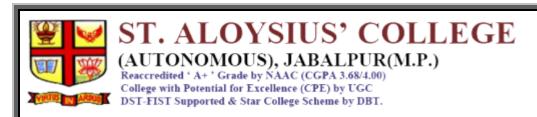
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Page 51



Mr. Niraj Kumar

Prof. Sardul Singh Sandhu

M.Sr., M.Phil, Ph.D., D.Sc. & F.B.S.



Director
Design Innovation Center
(Spensored by MIRR), Gost, of India)
Chairman Commen
BOS-Microbiology

P.D.F.: D Bf (Scotland & Australia), UNESCO (France), TWAS/CNPq (Brast) Evaluator Member: NBA, New Delhi Former Governor's Nominee, Sirsa University, Sirsa. Former Executive Council Member, G. J. University, Hisar. Former Director General, M.M. University, Ambala. Former Director, C.S.R.D., People's Group, Bhopal.

LAB: Fungal Biotechnology & Invertebrate Pathology, Department of Biological Sciences,

Rani Durgavati University, Jabalpur — 482001 (M.P.) INDIA

CERTIFICATE

This is to certify that the dissertation work entitled, "Isolation and Screening and Pathogenicity evaluation of Macrophomina phaseolina from infected plant part of Pisum Sativum L." is a bonafide record of Research work carried out by Mr. Niraj Kumar Rajak for partial fulfillment of the degree of "Master of Science" in Microbiology, 2022-2023 from St. Aloysius' College, (Autonomous) Jabalpur (M.P.), has duly completed his work under my guidance and supervision. He has done his works in sincerely. No Part of this dissertation work has been submitted for any other degree.

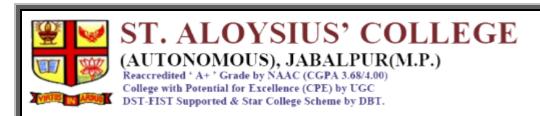
Prof. S.S. Sandhu

Director,

Bio-Design Innovation Centre

Sandly 6.6.22

R.D. University, Jabalpur (M.P)



Ms. Ayushi Motwani



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M.S., M.Phil, Ph.D., D.S., & F.B.S.
Director
Design Innovation Center
Opensoral by SHIRD Cost of India)
Chairman - Common Control
HOS-Microbiology

F.D.F. D. 81 (Scotland & Australia).
UNESCO (France), TWAS/CNPq (Brazil)
Evaluator Member: NBA, New Delhi

Former Governor's Nominee, Sirsa University, Sirsa. Former Executive Council Member, G. I. University, Hisar. Former Director General, M.M. University, Ambala. Former Director, C.S.R.D., People's Group, Bhopal.

LAB: Fungal Biotechnology & Invertebrate Pathology, Department of Biological Sciences, Rani Durgavati University, Jabalpur – 482001 (M.P.) INDIA

CERTIFICATE

This is to certify that the work entitled "Potential of Antimicrobial Activity of Hibiscus rosa-sinesis extracts against Some Human Pathogenic Bacteria" is a dissertation work carried out by Ms. Ayushi Motwani as a dissertee of Master of Science (4th sem.) in Microbiology and she has been duly completed her work under my guidance and supervision. She has been done her work sincerely.

Prof. S. S. Sandhu

Res.: 8 8-96, Priyadershini Housing Society, Dumne Road, Near Hitkerni Engineering College, Jabalpur, M.P. (482001), India. Mobile: +91-9424395270, Land line: +91-761-2602768 Telefax: +91-2608704 (0)

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Ms. Nitasha Jhariya

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Mr. A.J.K. Asaiya Scientist - C Forest Protection Division Mob. no: 9424371609 E- mail: aaviral43@gmail.com

CERTIFICATE

This is to certify that the dissertation thesis entitled "Screening Trichoderma species and identify suitable agriculture waste biomass as substrate for multiplication of Trichoderma" has been submitted by Nitasha Jhariya as partial fulfillment for the degree of Masters of science in Microbiology. She has completed the dissertation work under the guidance of Mr. A.J.K. Asaiya.

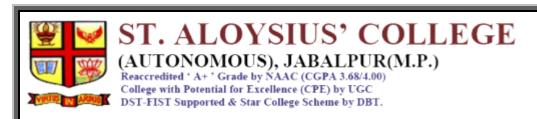
Date: 06/6/2022

Place: Jabalpur

Mr. A.J.K. Asaiya

Scientist 'C'
Forest Protection Division,
Tropical Forest Research Institute,
A. J. K. Asaryaalpur
Scientist "C"

Forest Protection Division TFRI, Jabalpur



Ms. Shivani Rajak



(Fungal Disease Diagnostic and Research Center, Jabalpur.)

Dr. Shesh Rao Nawange

Scientist Young Scientist Govt. of India (DST), New Delhi Post Doctoral R.A. ICMR, New Delhi Research Associate ICMR, New Delhi Senior Research Fellow ICMR, New Delhi



Life Member: SHAM, ISHAM
Working Group on Fungal sinusitis-ISHAM
PCR-based diagnosis of Dermatophytic Infections: - ISHAM
General Secretary, SRDTHFD
International Observer CLSI (NCCLS)
Mob.: 09027046379, 09479465303

Date : 06/06/24

NO.44 | SEDTRE | DILL | 202 2

Certificate

This is to Certify that the Work done for dissertation entitled "Studies on keratinophilic fungi from city of Jabalpur, Mahoba and Katni in Central India" is a bonafied work of Ms. Shivani rajak has been duly completed under my supervision and guidance.

This isentirely herown work and being submitted for IVth Semester Examination of M.Sc Microbiology from St. Aloysius' College (Autonomous Jabalpur (M.P.) for the academic year 2021-2022,

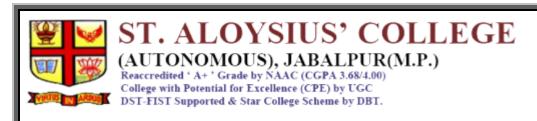
This dissertation may be accepted in partial fulfillment for the award of the degree of Master of Science in Microbiology.

Place: Jabalpur

(Dr.S. R. Nawange)

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Add.:center for medical mycologyl-3/1 kachnar city vijaynagar Jabalpur - 482002 (M.P.) sr_nawange@yahoo.com, srdthfd@gmail.com, sr.nawange@gmail.com www.srdthfd.blogspot.com



Ms. Ankita Shrivastava



কাৰ্য নী দুদ আৰ – ভাষ্ট্ৰীক জোনানি দ্যালয় প্ৰসুখ্যান থাকাল ন্যালয় প্ৰসুখ্যান কিনাগ, ন্যালয় দুৰ্ব ঘটিয়ান কান্যাল দ্যালয়, মান্য নামকাং

ICMR - National Institute of Research in Tribal Health Department of Health Research, Ministry of Health and Family Welfare, Government of India

Dr. Aparup Das Scientist 'G' and Director

No. NIRTH/Dir.Off./2022

Jabalpur, dated 3th June, 2022

TO WHOM IT MAY CONCERN

This is to certify that the dissertation work entitled "Molecular Identification of Mosquito Species of Anopheline Genus of Chhattisgarh, India Using COX1 Gene of Mitochondria" has been submitted by Miss AnkitaShrivastava for the partial fulfillment of the degree of Master of Science in Microbiology 2022 from St. Aloysius College (Autonomous), Jabalpur, M.P. The dissertation work has been completed under my guidance. She did this project during the period from January 2022 to May 2022. The dissertation embodies original work and that this has not been plagiarized from any source.

The matter embodies in the dissertation has not been submitted for a degree of any other academic qualification of any university or examining body in India or abroad.

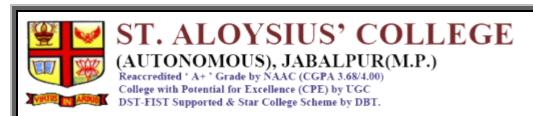
(Aparup Das)3/6/22

एन आई आप टी एचः परिसर, नागपुर रोड. पो.ऑ. गढा, जवलपुर, नव्य प्रदेश -48200), मारत NRTH Complex, Nagpur Road, PO, Garha, Jabalour, Madnya Pradesh - 482 OO3. India Ten +91-761-2370800 Fax +91-761-2672831 rector@rintnies.in | www.netnies.in

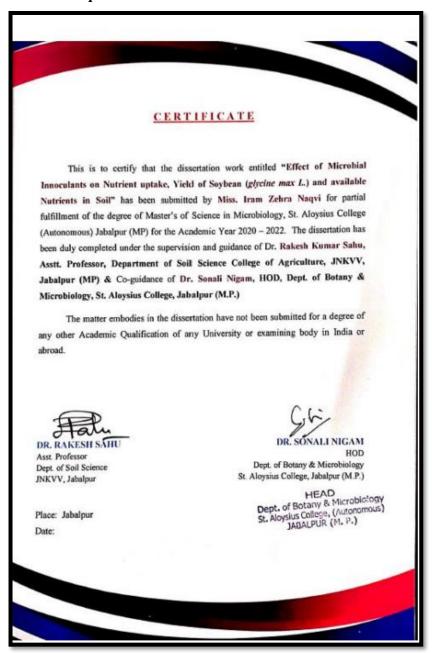
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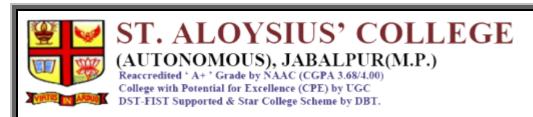
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World Health Organization
Collaborating Centre for the Health
Indigenous Population



Ms. Iram Zehra Naqvi





Ms. Annamma Alex





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राष्ट्रीय विकृति विज्ञान संस्थान आई.सी.एम.आर. ICMR - NATIONAL INSTITUTE OF PATHOLOGY tativa अनुवाम विभाग स्वास्थ्य और परिवार करवाण भवारम, भारत संस्थार Department of Health Research, Ministry of Health and Lamb Wellar, Government of India 'श्रीरमानारी' भारतः' सम्बद्धार्थन अस्पतास्य परिवार, "Sciramachari Bhawan", Safdarjung Hospital Campus, पोरंट बावस नं, 4909, वह दिल्ली-110029 (पास्त) Post Box No. 4909, New Delhi-110029 (India)



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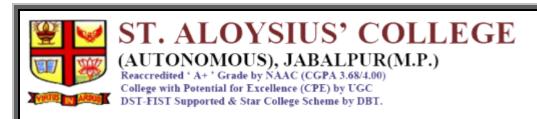
This is to certify that the dissertation entitled "Identification of urinary protein biomarkers in patients with genitourinary disease" is submitted by Ms. Annamma Alex for partial fulfillment of the degree of Master of Science in Microbiology, from St. Aloysius College (Autonomous), Jabalpur (M.P) for the academic year (2020-2022). The dissertation has been duly completed under the supervision and guidance of Dr. Usha Agrawal, Scientist G &Director, ICMR-National Institute of Pathology, Safdarjung Hospital, New Delhi & Dr. Sonali Nigam (HOD), Dept. of Botany and Microbiology, St. Aloysius' College (Autonomous), Jabalpur, (M.P.).

Date: 3 06 2022

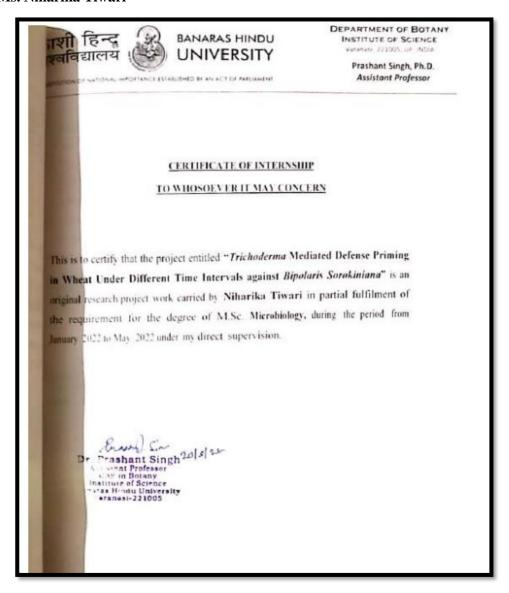
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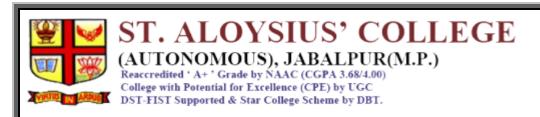
Dr. Usha Agrawal Scientist G & Director ICMR-National Institute of Pathology Safdarjung Hospital Campus. New Delhi.

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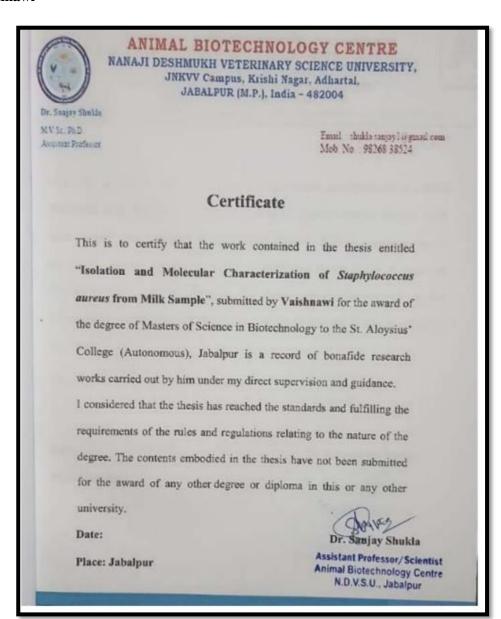


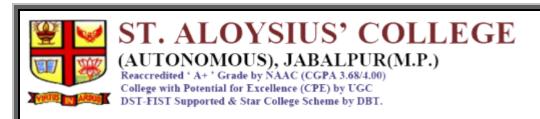
Ms. Niharika Tiwari





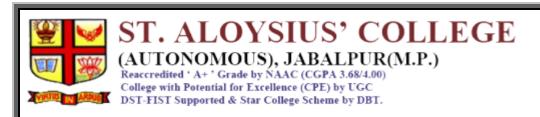
Ms. Vaishnawi





Ms. Shubhangi Dalai





Ms. Kanishka Uikey



ANIMAL BIOTECHNOLOGY CENTRE

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Dr. Sanjay Shulda

M.V.Sc., Ph.D. Assistant Professor Email::bukla.sanjayl@gmail.com Mob. No.: 98268 38524

This is to certify that the work contained in the thesis entitled "Isolation and

Molecular Characterization of Streptococcus agalactiae from Milk Sample",

submitted by Kanishka uikey for the award of the degree of Masters of Science in

Biotechnology to the St. Aloysius' College (Autonomous), Jahalpur is a record of

bonafide research works carried out by her under my direct supervision and

guidance at Animal Biotechnology Centre, NDVSU, Jabalpur.

The contents embodied in the thesis have not been submitted for the award of any other degree or diploma in this or any other university.

Date: 22/06/2013

Place: Jabalpur

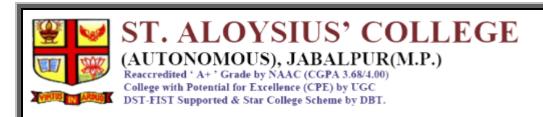
Dr. Sanjay Shukla

Assistant Professor

Animal Biotechnology Centre

(NDVSU) Jabalpur

Assistant Professor/Scientist Animal Biotechnology Centre N.D.V.S.U., Jabalpur



Ms. Divya Surya

ANIMAL BIOTECHNOLOGY CENTRE

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In the official letter head of the Institute

This is to certify that the work contained in the thesis emitted "TO STEDY THE OAS! GENE EXPRESSION IN REPRODUCTIVE TRACT OF PREGNANT AND NON-PREGNANT GOAT", submitted by Divya Sarya for the award of the degree of Massers of Science in Biotochnology to the St. Aloysius' College (Aconomous), Jabalpur is a record of tomafide research works carried out by her under my direct supervision and guidance.

I considered that the thesis has reached the standards and fulfilling the requirements of the rules and regulations relating to the nature of the degree. The contexts embodied in the thesis large not home submitted for the award of any other degree or diploma in this or any other manufactures.

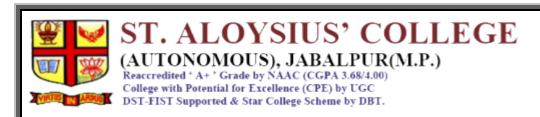
Date: 22/06/23

Place:Jabalpur

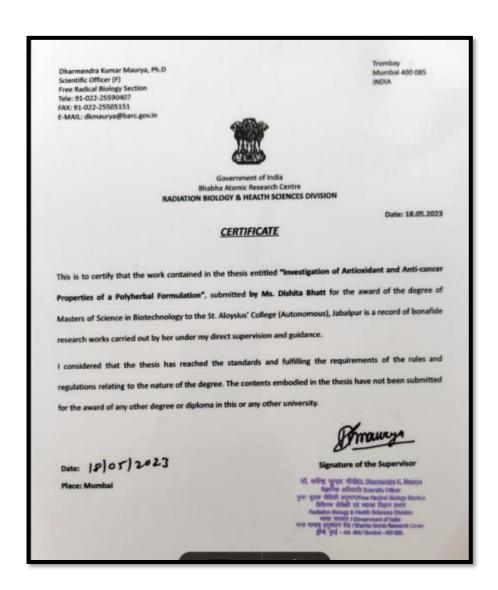
DR. TRIPTI JAIN

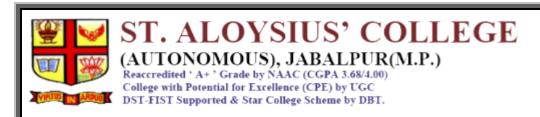
ASSISTANT PROFESSOR

Assistant Professor/Scientist
Animal Biotechnology Centre
N.D.V.S.U., Jebatour



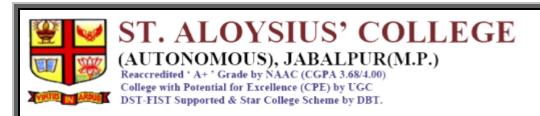
Ms. Dishita Bhatt



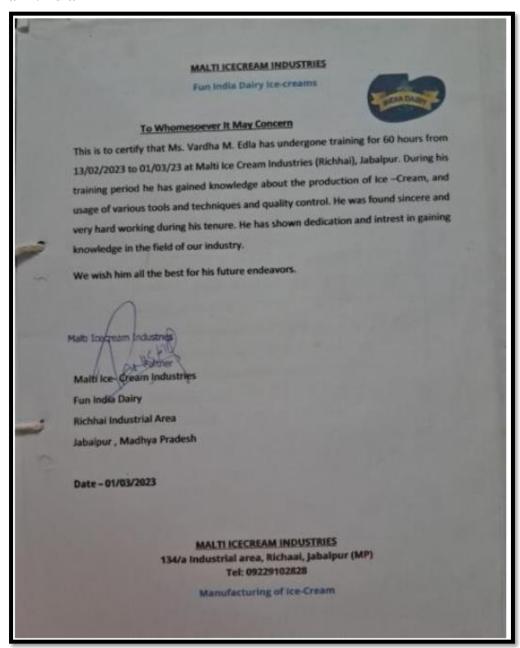


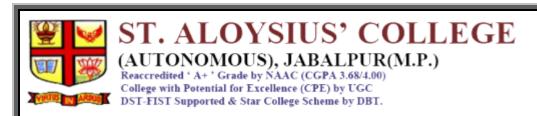
Ms. Apoorva Shrivas





Ms. Vardha M. Edia





Ms. Aaresha Tauheed



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This is to certify that the work contained in the thesis entitled "Logic operationbased controlled movement of microbots for toxic pesticide degradation", submitted by Aaresha Tauheed for the award of the degree of Masters of Science in Biotechnology to the St. Aloysius' College (Autonomous), Jabalpur is a record of an original research work carried out by her under my direct supervision and guidance at Dept. of Applied Sciences, HIT Allahabad.

I considered that the thesis has reached the standards and fulfilled the requirements of the rules and regulations relating to the nature of the degree. The contents embodied in the thesis have not been submitted for the award of any other degree or diploma in this or any other university. Moreover, it was communicated for publication in a reputed international journal.

Date: 19/06/2023

Place: 111 Allahabad

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Signature of the Supervisor

De America Como Rebio Arrivo III Como Linguista de Como Billa Allabotad



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Ms. Yamini Iyer



DEPARTMENT OF VETERINARY MICROBIOLOGY COLLEGE OF VETERINARY SCIENCE & ANIMAL HUSBANDRY, N.D.V.S.U., JABALPUR (M.P.) - 482001



Certificate - I

This is to certify that the dissertation work titled "Isolation and Identification of Salmonella species from chicken meat" was carried out by Ms. Yamini Iyer, student, MSc Microbiology, Department of Microbiology, St. Aloysius' College (Autonomous), Jabalpur, Madhya Pradesh under my supervision and guidance for the partial fulfillment of the requirement for awarding the degree of Master of Science in Microbiology.

The dissertation work is the original work and the contents of this thesis has not been reported earlier anywhere.

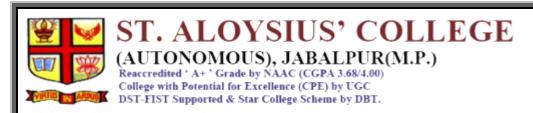
Place: Jabalpur

Date: 21 06 23

Dr. Ajay Kumar Rai (Guide)

CASSEL

Assistant Professor



Ms. Vanshika Thakur



PROF. SURENDRA SHOCK

Misc. Ph.D (B.H.U): B.B.; F.N.R.S.
Commonewaith Pont Doctoral Fellow (UK)
Visiting Scientist (branet & P.R. Christ)
Director, University Institute of Viocational Studies &
Skill Development Center
Director Distance Education,
Director Principal US C. Commonity Colleges
Coordinator Career Guistance, Commoliting
Training and Placoment Cell,
Chairman Board of Studies in Isotany
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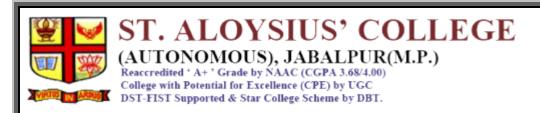
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CERTIFICATE

This is to certify that the Dissertation entitled "Screening, Selection and Isolation of the Cynobacterial Strains Collected from the Biofilms of the Pisanhari ki Madiya- Historical Monument" has been submitted by MS. Vanshika Thakur, a student of M. Sc. Microbiology, St. Aloysius College, Jabalpur for the academic year 2023. She has duly completed this dissertation under my supervision and guidance. This dissertation is being submitted for partial fulfillment for the Degree of "Master of Science" in Microbiology at the Department of Botany And Microbiology St. Aloysius College, Jabalpur, (M.P).

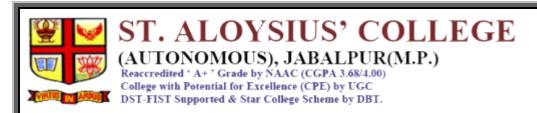
Date: Place: Prof. Dr. Surendra Singh (Supervisor)

Page 69



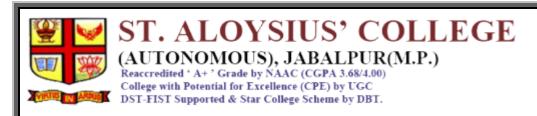
Mr. Uday Patel





Ms. Shreyashee Naveria





Ms. Anjali Tripathi



Ref: RB&HSD/2023/856

Date: 16.06.23

CERTIFICATE

This is to certify that the work contained in the thesis entitled "Proliferation response of T cells in tumour bearing mice", submitted by Anjali Tripathi for the award of the degree of Masters of Science in Biotechnology to the St. Aloysius' College (Autonomous), Jabalpur is a record of bonafide research work carried out by her under my direct supervision and guidance.

I considered that the thesis has reached the standards and fulfilling the requirements of the rules and regulations relating to the nature of the degree. The contents embodied in the thesis have not been submitted for the award of any other degree or diploma in this or any other university.

This work was conceived and executed in BARC. No part of the data included in her thesis would be published in any form without the prior permission of Head, RB&HSD, BARC.

Project supervisor

Dr. (Mrs.) Bhavani Shankar

Head, Immunology section,

RB&HSD, BARC.

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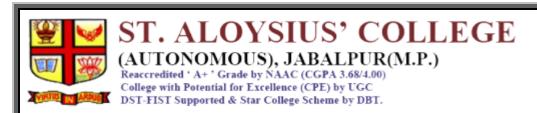


Immunology Section, Radiation Biology and Health Sciences Division, Bhabha Atomic Research Centre, Trombay,

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E mail: bshankar@barc.go

Phone: 91-22 Page 1 7 1 - 0



Ms. Shruti Gumasta



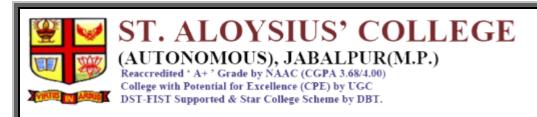
CERTIFICATE

This is to certify that the Dissertation work entitled "Effect of Various Herbs on Oral Pathogens with Special Reference to Enterococcus faecalis" submitted by Ms. Shruti Gumasta has been executed under my guidance for the fulfilment of the Degree of Master of Science in Microbiology of St. Aloysius College (Autonomous), Jabalpur (M.P.) for the academic year 2022-23.

Dr. Manish K. Agrawal
Dr. Manish K. Agrawal
Managing Director

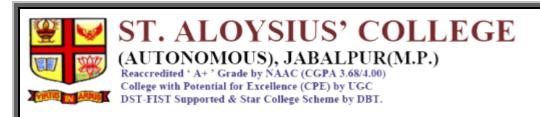
Excellent Bio Research Solutions Pvt. Ltd. 1042, Napier Town, 4th Bridge

Page 73

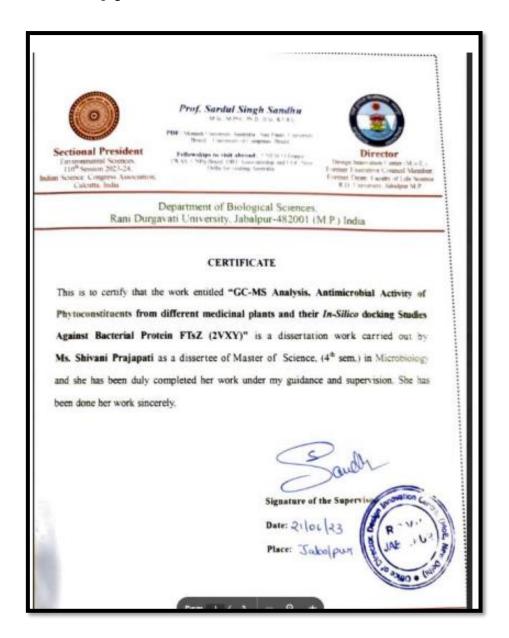


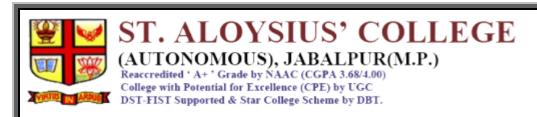
Miss Shivani Sarkar



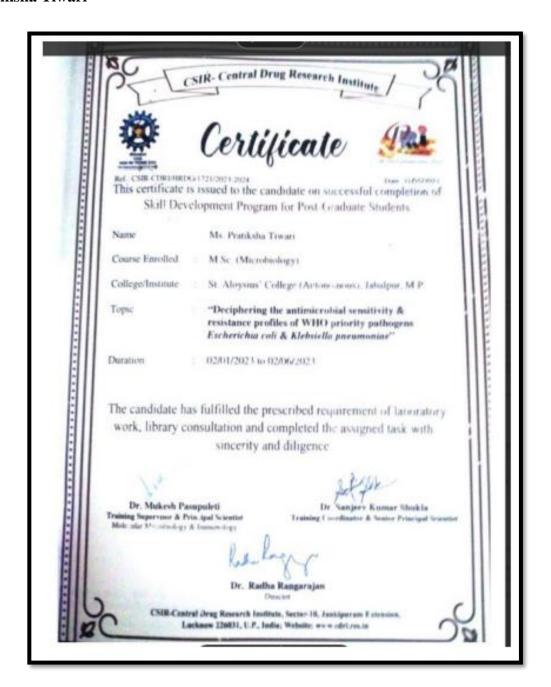


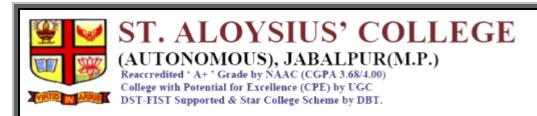
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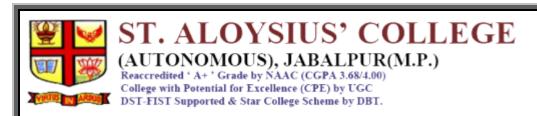
Ms. Pratiksha Tiwari



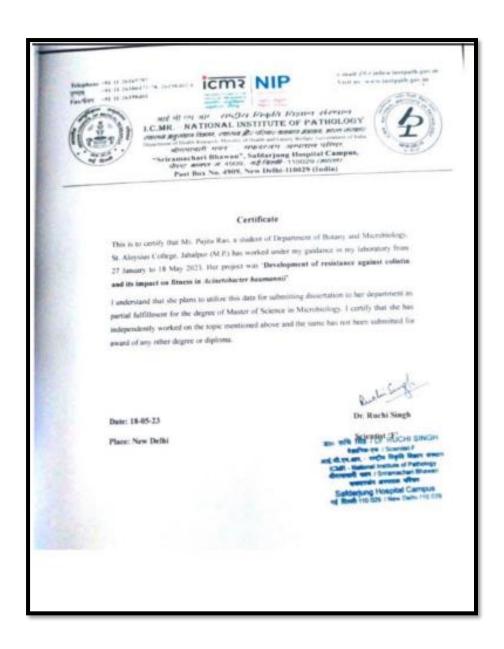


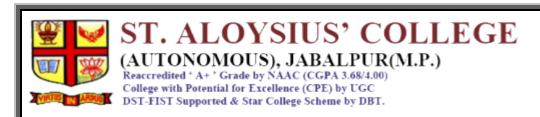
Ms. Ruchi Naidu

Mrs. States of Botany & Microfisiology d Department of Botany & Microfisiology 1,2337 (our distance 4,11104775 1,300 (our distance 4, No.) Absolute (M.P.) 1,300 (our distance 4, 1,000 (our distance 4,000 (our d		
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h N di	this is to certify that the dissertation work entitled "Molecular Identification of Wolbachia infection in wild-caught Anopheles species of Madhya Pradesh, India" has been submitted M. Ruchi Naidu for the partial fulfillment of the degree of Master of Science in dicrobiology 2023 from St. Aloysius' College (Autonomous), Jabalpur, M.P. The issertation work has been completed under the guidance of Dr. Aparup Das, Scientist-G & Science, ICMR- National Institute of Research in Tribal Health (NIRTH), Jabalpur M.P.	
	The matter embodied in the dissertation has not been submitted for a degree of any other cademic qualification of any university or examining body in India or abroad.	
	Dr. Sonali Nigam	



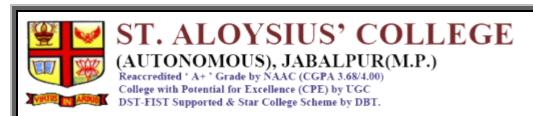
Ms. Pujita Rao





Deepraj Thakur





Ms. Arti Tigga



DEPARTMENT OF VETERINARY MICROBIOLOGY COLLEGE OF VETERINARY SCIENCE & ANIMAL HUSBANDRY, N.D.V.S.U., JABALPUR (M.P.) - 482001



CERTIFICATE - 1

This is to certify that the dissertation work entitled "Isolation and Biochemical characterization of Escherichia coli from chicken meat" submitted in partial fulfillment of the requirements for the degree of Master of Science in Microbiology in St. Aloysius College (Autonomous), Jabalpur is a record of the bonafide research work carried out by Miss. Arti Tigga under my guidance and supervision.

No part of this thesis has been submitted/ published for any other degree or diploma programme. All the assistance and help received during the course of the investigation has been acknowledged by her.

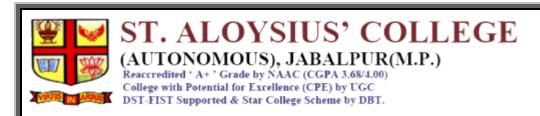
Place: Jabalpur

Date: 21 04 23

Dr. Vandana Gupta (Guide) Associate Professor

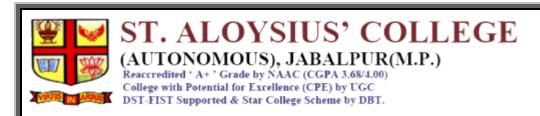
Dr. Ajay Kumar Rai (Co- Guide) Assistant Professor

> Dr. Anju Vayak Head of Department



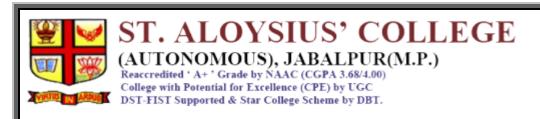
Miss Anjali Tiwari



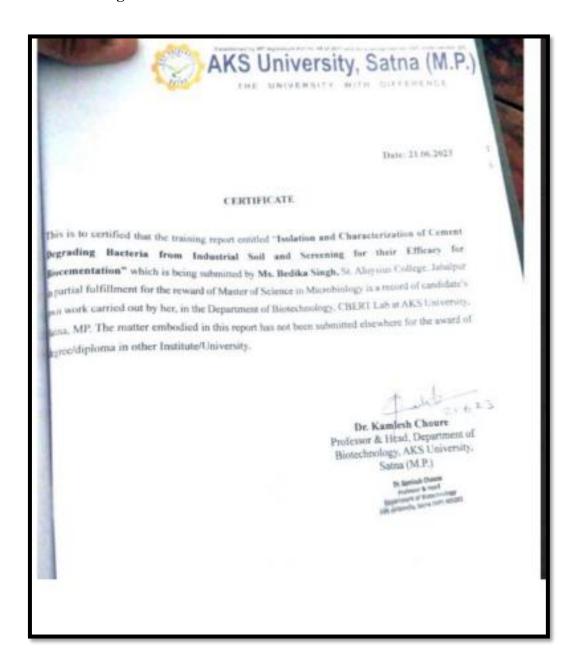


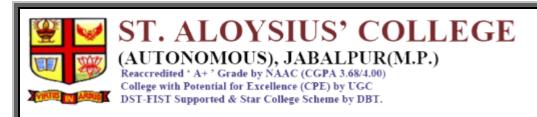
Ms. Ayushi Upadhayay





Ms. Bedika Singh





Ms. Aditi Dubey



as Sc. Ph.D. (B. H. U.) F. B. S. F. N. P. S.
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Ex Dearth (I/C) University Institute of Management & Commerce

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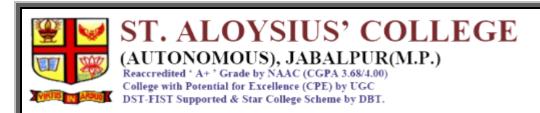
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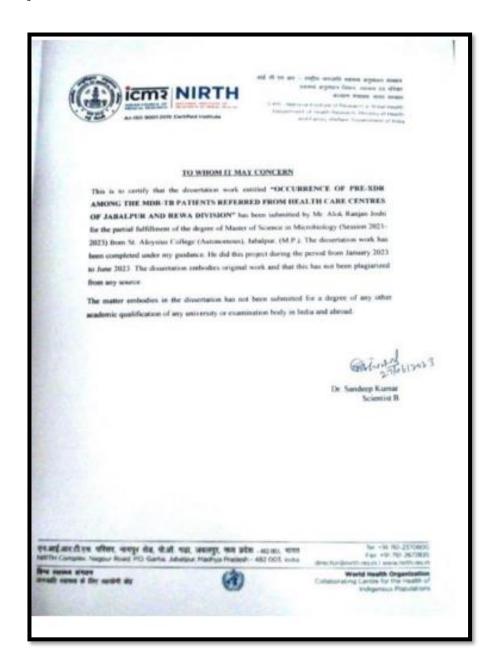
This is to certify that the Dissertation entitled "SCREENING, SELECTION AND ISOLATION OF THE CYNOBACTERIAL STRAINS COLLECTED FROM THE BIOFILMS OF THE MADAN MAHAL FORT- HISTORICAL MONUMENT" has been submitted by Ms. Aditi Dubey, a student of M. Sc. Microbiology, St. Aloysius College, Jabalpur for the academic year 2023. She has duly completed this dissertation under my supervision and guidance. This dissertation is being submitted for partial fulfillment for the Degree of "Master of Science" in Microbiology at the Department of Botany And Microbiology St. Aloysius College, Jabalpur, (M.P).

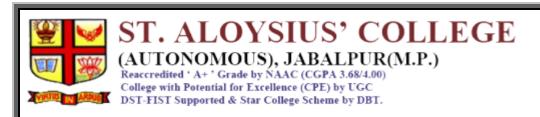
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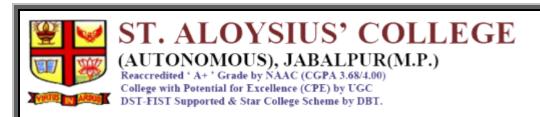
Mr. Alok Ranjan Joshi



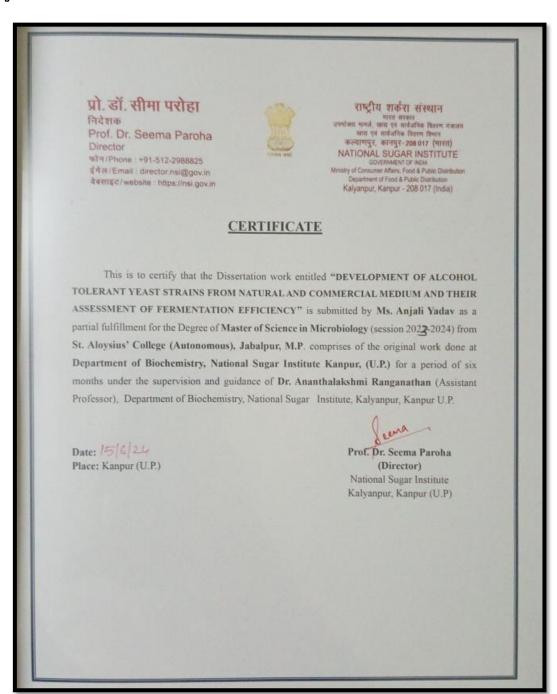


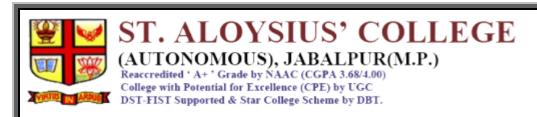
Mr. Amrtya Patra





Ms. Anjali Yadav





Ms. Genisha Jose

DEPARTMENT OF VETERINARY MICROBIOLOGY

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CERTIFICATE

This is to certify that the dissertation work tilted "Isolation, Molecular Detection and Antimicrobial susceptibility of Klebsiella species from Human and Dog Urinary Tract Infection" was carried out by Ms. Genisha Jose, student, M.Sc. Microbiology, Department of Botany and Microbiology, St. Aloysius' College (Autonomous), Jabalpur, Madhya Pradesh under the supervision and giudance for the partial fulfillment of the requirement for awarding the degree of Master of Science in Microbilogy.

The dissertation work is the original work and the contents of this thesis has not been reported earlier anywhere.

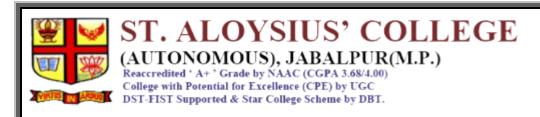
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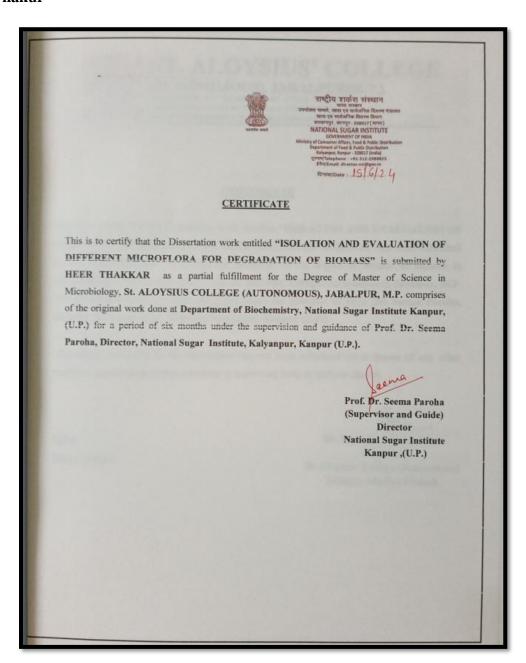
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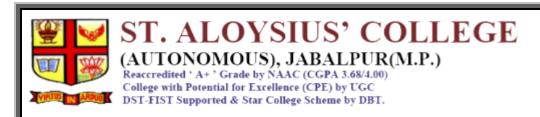
Dr. Anju Nayak (Guide)

Professor and Head



Heer Thakur





Ms. Jyoti Choudhary

Prof. Surendra Singh

M.Sc., Ph.D.(B.H.U.), F.B.S., F.N.R.S Common wealth Post-Doctoral Fellow(U.K.) Visiting Scientist (Israel & P.R. China) Director, University Institute of Vocational Studies Skill Development Center, Director, Distance Education, Director Principal U.G.C. Community College, Coordinator Career Guidance, Counseling, Training and Placement Cell, Chairman Board of Studies in Botany, Ex. Dean Students Welfare & Foreign Students Affairs,

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Jabalpur-482001 (M.P.), India.

Reference no.

Date :

CERTIFICATE

This is so certify that the Dissertation work entitled "EFFECT OF DIFFERENT ORGANIC AND INORGANIC FERTILIZER AND BIOFERTILIZER ON SEED GERMINATION AND SEEDLING GROWTH OF TRITICUM AESTIVUM" is Submitted by Miss. Jyoti Choudhary for partial fulfillment of the Degree of Master of Science in Microbiology, St. Aloysius College (Autonomous), Jabalpur (M.P.) for the academic year 2023-24, under the Supervision of the Dr. Surendra Singh. Dean Department of Bio Science, Rani Durgavati Vishwavidyalaya, Jabalpur (M.P.). This work is original and no part of this thesis has been submitted for the award of any other diploma or degree to any other university or organization.

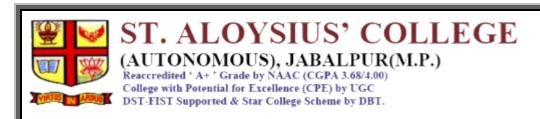
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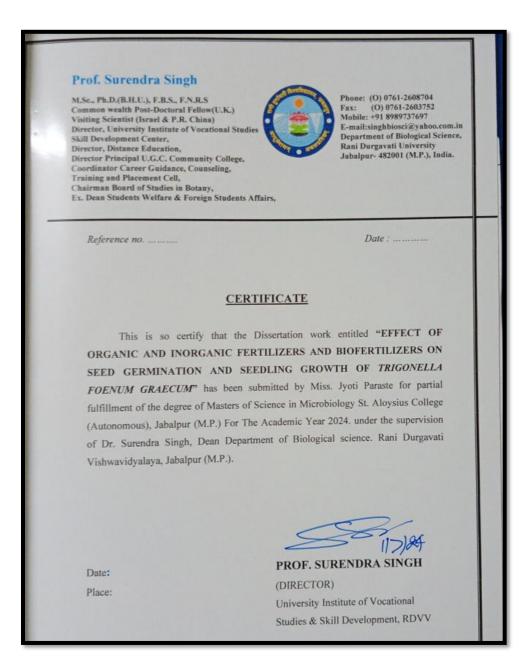
(Prof. Dr. Surendra Singh)

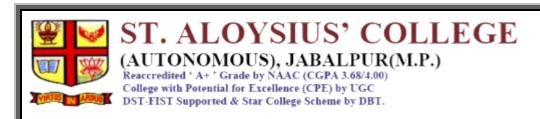
Director

University Institute of Vocational Studies & Skill Development, RDVV.



Ms. Jyoti Paraste





Ms. Kiran Pitaniya



M.Sc., Ph.D. (B.H.U.), F.B.S., F.N.R.S Common wealth Post-Doctoral Fellow (U.K.) Visiting Scientist (Israel & P.R. China) Director, University Institute of Vocational Studies Skill Development Center, Director, Distance Education, Director Principal U.G.C. Community College, Coordinator Career Guidance, Counseling, Training and Placement Cell, Chairman Board of Studies in Botany, Ex. Dean Students Welfare & Foreign Students Affairs,

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CERTIFICATE

This is so certify that the Dissertation work entitled "EFFECT OF DIFFERENT ORGANIC AND INORGANIC FERTILIZER AND BIOFERTILIZER ON SEED GERMINATION AND SEEDLING GROWTH OF RAPHANUS SATIVUS" is Submitted by Miss. Kiran Pitaniya for partial fulfillment of Master degree of Science in Microbiology, St. Aloysius College (Autonomous), Jabalpur (M.P.) for the academic year 2023-24, under the Supervision of the Dr. Surendra Singh. Dean Department of Bio Science, Rani Durgavati Vishwavidyalaya, Jabalpur (M.P.). This work is original and no part of this thesis has been submitted for the award of any other diploma or degree to any other university or organization.

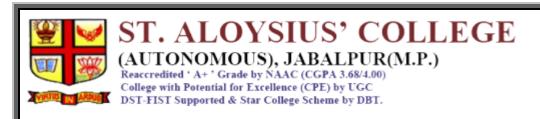
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Place: Jabalpur

(Prof. Dr. Surendra Singh)

Director

University Institute of Vocational Studies & Skill Development. RDVV.

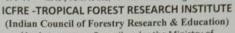


Ms. Pinky Nagpal



उष्ण कटिबंधीय वन अनुसंधान संस्थान (भारतीय वानिकी अनुसंधान एवं शिक्षा परिषदे) (पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार की एक स्वायत्त परिषदे)

डाकघर - आर0एफ0आर0सी0, मण्डला रोड, जनलपुर - 482 021



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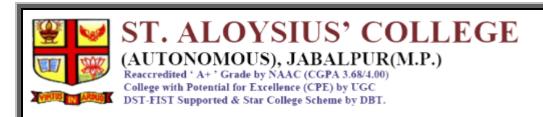
CERTIFICATE

This is to certify that the Dissertation thesis work entitled "Isolation, Identification, and Eco-Friendly Management of Neem (Azadirachta indica A. Juss) Fungal Pathogens" is submitted by PINKY NAGPAL as a partial fulfillment for the Degree of Master of Science in Microbiology, St. ALOYSIUS COLLEGE (AUTONOMOUS), JABALPUR, M.P. comprises of the original work done at Forest Protection Division, ICFRE-Tropical Forest Research Institute Jabalpur, (M.P.) for a period of six months under the supervision and guidance of Dr. Darshan K. (Scientist 'C'), Forest Protection Division, ICFRE -Tropical Forest Research Institute, Jabalpur M.P.

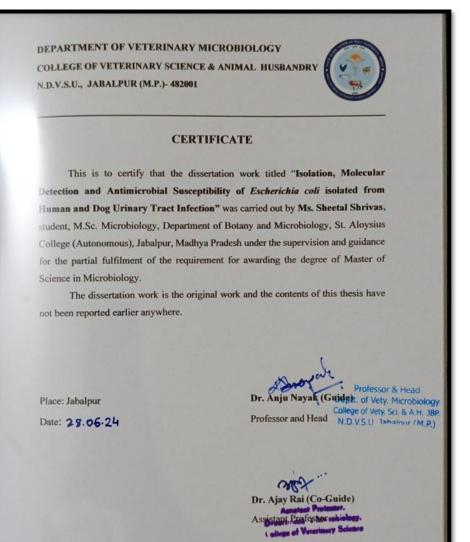
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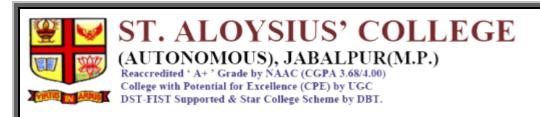
Place: Jabalpur (M.P.)

Smt. ANTA, IFS
Head of the Division
Forest Protection Division
ICFRE -Tropical Forest Research Institute,
Jabalpur (M.P.)



Ms. Sheetal Shrivas





Ms. Shikha Pandey



खष्ण कटिबंधीय वन अनुसंधान संस्थान (भारतीय वानिकी अनुसंधान एवं शिक्षा परिषद) (पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार की एक स्वायस्त परिषद)

डाकघर – आर0एफ0आर0सी0, मण्डला रोड, जबलपुर – 482 021 ICFRE -TROPICAL FOREST RESEARCH INSTITUTE (Indian Council of Forestry Research & Education)



(An Autonomous Council under the Ministry of Environment, Forests & Climate Change, Govt. of India)
P.O. – R.F.R.C, Mandla Road, JABALPUR – 482 021 (M.P)

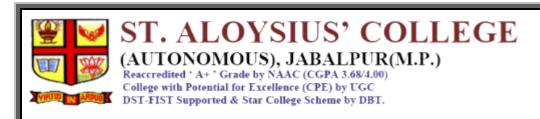
CERTIFICATE

This is to certify that the Dissertation thesis work entitled "Study of Bamboo Fungal Pathogens and Their Management Using Antagonistic Trichoderma Species" is submitted by SHIKHA PANDEY as a partial fulfillment for the Degree of Master of Science in Microbiology, St. ALOYSIUS COLLEGE (AUTONOMOUS), JABALPUR, M.P. comprises of the original work done at Forest Protection Division, ICFRE-Tropical Forest Research Institute Jabalpur, (M.P.) for a period of six months under the supervision and guidance of Dr. Darshan K. (Scientist 'C'), Forest Protection Division, ICFRE-Tropical Forest Research Institute, Jabalpur, M.P.

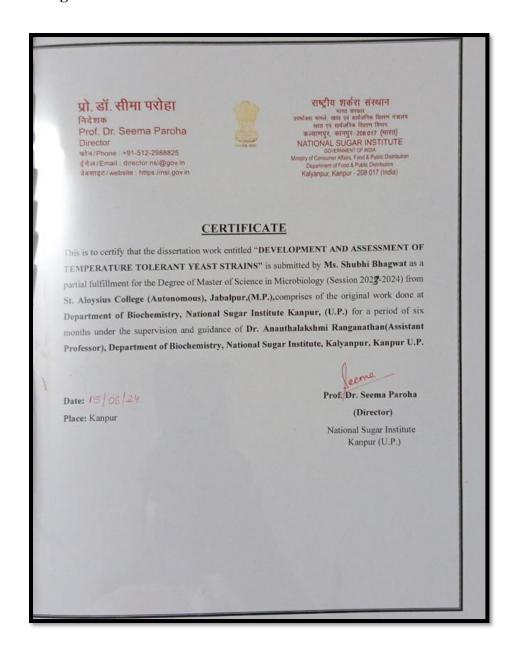
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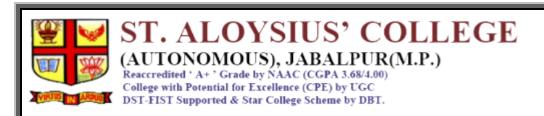
Place: Jabalpur (M.P.)

Smt. ANITA, IFS
Head of the Division
Forest Protection Division
ICFRE -Tropical Forest Research Institute,
Jabalpur (M.P.)



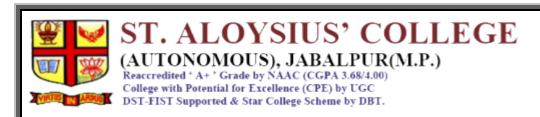
Ms. Shubhi Bhagwat



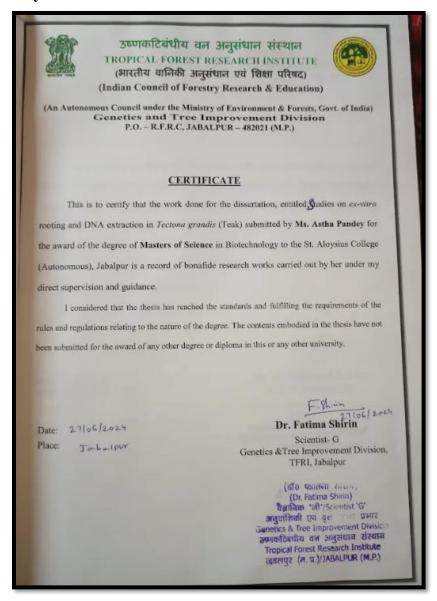


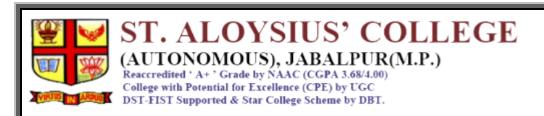
Aman Kumar Nanda

CERTIFICATE This is to certify that the Dissertation work entitled "Are Bakery Biscuits healthy and safe? Comparative analysis of nutritional values" submitted by Aman Kumar Nanda has been executed under my guidance for the fulfilment of the Degree of Master of Science in Biotechnology of St. Aloysius College(Autonomous), Jabalpur (M.P.) for the academic year 2023-24. Dr. Manish K. Agrawal Dr. Manish K. Agrawal Managing Director Excellent Bio Research Solutions Pvt. Ltd. 1042, Najver Town, 4th Bridge Jabatpur 482001 (MP) India



Ms. Aastha Pandey





Mr. Nishikant Dhurwey



State Forest Research Institute Jabalpur



CERTIFICATE

This is to certify that the work contained in the dissertation work entitled "Genomic DNA Isolation of Medicinal Plant Commiphora wightii" submitted by Nishikant Dhurwey for the award of the degree of Masters of Science in Biotechnology to the St. Aloysius' College (Autonomous), Jabalpur is a record of bonafide dissertation works carried out by him under my direct supervision and guidance.

I considered that the dissertation work has reached the standards and fulfilling the requirements of the nature of work.

Date: 4/7/2024

Place: Jabalpur

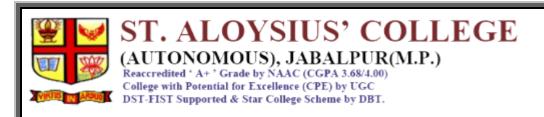
Dr. S.K. Tiwari (HOD)

Scientist - 'E'

Jabalpur

Biotechnology Division

SFRI, Jabalpur, M.P.



Mr. Pradeep Maravi





CERTIFICATE

This is to certify that the work contained in the dissertation work entitled

"STUDIES ON GENOMIC DNA EXTRACTION METHOD OF ENDANGERED

MEDICINAL PLANT Rauwolfia serpentina (L.) Benth. Ex Kurz" submitted by Pradeep Maravi for the award of the degree of Masters of Science in Biotechnology to the St. Aloysius' College (Autonomous), Jabalpur is a record of bonafide dissertation works carried out by him under my supervision and guidance.

I considered that the dissertation work has reached the standards and fulfilling the requirements of the nature of work.

Date: 4/7/2024

Place: Jabalan

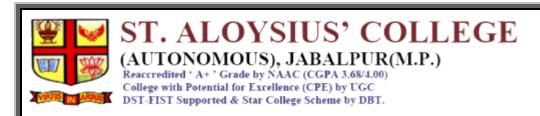
Dr. S.K. Tiwari (HOD)

Scientist - 'E'

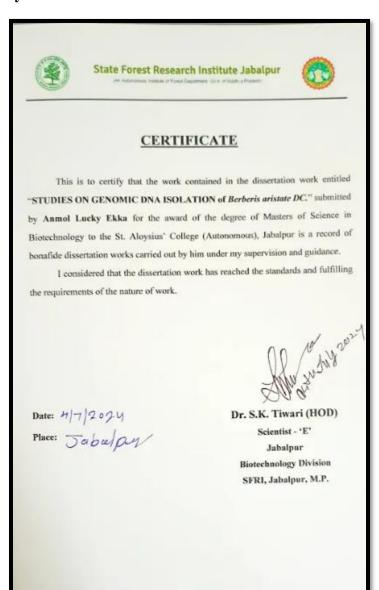
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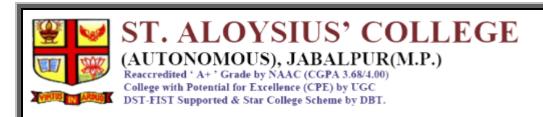
Biotechnology Division

SFRI, Jabalpur, M.P.

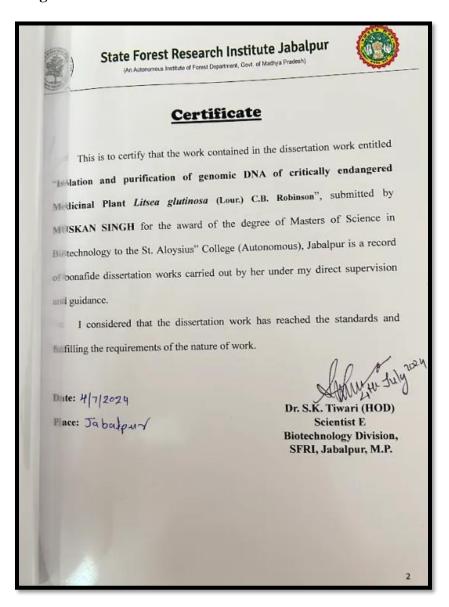


Anmol Lucky Ekka





Muskan Singh



Himanshi





Government of India Bhabha Atomic Research Centre Radiopharmaceuticals Division

CERTIFICATE

This is to certify that the work contained in the thesis entitled "Biological Effect of Auger Electron Emitting Radiopharmaceuticals" submitted by Himanshi for the award of the degree of Masters of Science in Biotechnology to the St. Aloysius' College (Autonomous), Jabalpur is a record of bonafide research works carried out by her under my direct supervision and guldance.

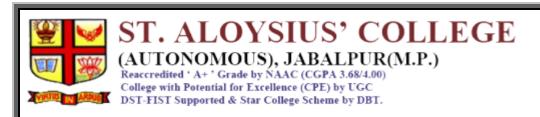
I considered that the thesis has reached the standards and fulfilling the requirements of the rules and regulations relating to the nature of the degree. The contents embodied in the thesis have not been submitted for the award of any other degree or diploma in this or any other university.

Junole

Date: 31/05/2024 Place: Trombay Dr. Chandan Kumar Scientific Officer -F

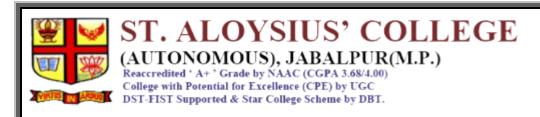
Radiopharmaceutical Division

Bhabha Atomic Research Center, Mumbai ইয়ানিক জীহনালৈ (Yscientific Officer(戶) বৈটিনী নীকৰ সম্পাদ্য PhD বিটনী নামানিক যে আহ্বাবাৰ ক'/RC & IG সামা বংলাপু অস্ত্ৰাবাদ কৰি/BARC, শ্লীন, দুঁহাই-85/Trombay, Mumbai-85.

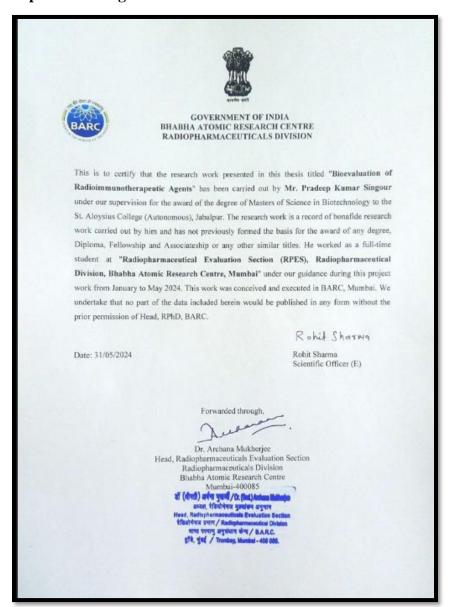


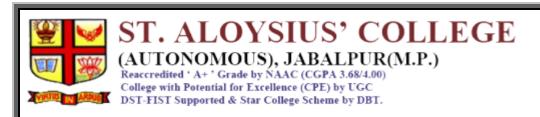
Abhishek Soni





Mr. Pradeep Kumar Singour





Harshita Jain



Date:

उ.व.अ.सं.- उष्णकटिबंधीय वन अनुसंघान संस्थान ICFRE-TROPICAL FOREST RESEARCH INSTITUTE आरतीय वानिकी अनुसंघान पुर्व शिक्षा परिचढ



पर्यावरण, वन पुर्व जनवायु परिवर्तन मंत्रालय, आरत सरकार की पुक स्वावत्त परिषद An autonomous Courcil under the Ministry of Environment, Forest & Climate Change डाक्घर- अगरुपुरुक्तारुक्ति, मण्डमा रोड, जनवपुर- 482 02 1

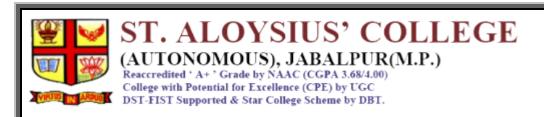
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CERTIFICATE

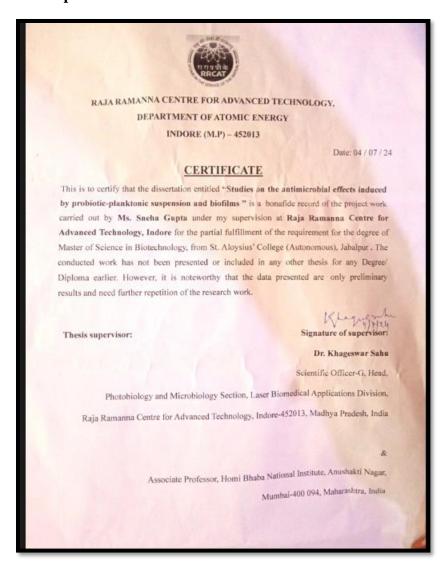
This is to certify that the work done for the dissertation, entitled "Clonal Propagation in Dalbergia sissoo Roxb. and Dalbergia latifolia Roxb.- exploring role of carbohydrates during adventitious rooting" submitted by HARSHITA JAIN for the award of the degree of Masters of Science in Biotechnology to the St. Aloysius College (Autonomous), Jabalpur is a record of bonafide research works carried out by her under my direct supervision and guidance.

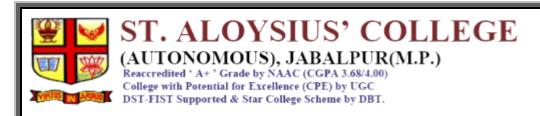
I considered that the thesis has reached the standards and fulfilling the requirements of the rules and regulations relating to the nature of the degree. The contents embodied in the thesis have not been submitted for the award of any other degree or diploma in this or any other university.

Place: (Dr. Pramod Kumar Tiwari)
Scientist-D
Scal



Ms. Sneha Gupta





Ms. Aashi Vishwakarma

