
RESEARCH AND CONSULTANCY

ZOOLOGY

Projects/Grants: 08
Publications: 14
Book chapters: 05
Consultancy: 06
MoU: 03
Linkages: 34



RESEARCH PROJECTS: 08 (2016-2020)

S.No.	Duration of Project	Name of Faculty	Department	Name of the Funding agency	Title of the Project	Amount Sanctioned
1	2014-2017	Dr. Nandini Vaz Fernandes	Zoology	DST-SERB	“Heavy metal bioaccumulation and genotoxicity studies of fishes exposed to mining effluents in Goa”	13,10,000.00
2	2017-2020	Prof. Nandkumar N. Sawant & Dr. Nandini Vaz Fernandes	Geography & Zoology	DBT, Ministry of Science & technology, Govt. of india	DBT-Star College Scheme	12300000
3	2018-2020	Dr. Nandini Vaz Fernandes	Zoology	Directorate of Higher Education, Govt. of Goa.	“Evaluation of effectiveness of methodologies used in conducting practicals of Graduate & undergraduate courses in Biological sciences”	2,00,000.00
4	2018-2019	Dr. Nandini Vaz Fernandes	Zoology	MSI & GSWA Govt. Of Goa.	Fund for Organizing National Conference	40,000.00
5	2019-2021	Dr. Nandini Vaz Fernandes & Prof. Nandkumar Sawant	Geography and Zoology	DST-MHRD-COESME	Training workshop, on Research Based Pedagogical Tools (RBPTs) for Undergraduate Science Teachers	1,94,200.00
6	2019-2022	Dr. Nandini Vaz Fernandes and Prof. Nandkumar Sawant	Geography and Zoology	Goa Forest Department, Govt. of Goa	Development of wildlife management plan for Bondla wildlife sanctuary	291500.00
7	2019-2021	Dr. Nandini Vaz Fernandes , Prof. Nandkumar Sawant, Mr. Castor Godinho and Mr. Wendam Gray.	Zoology, Geography, computer science	Goa Forest Department, Govt. of Goa	Project on ‘Wildlife Activity Management’ APP development.	100100.00
8	2019-2020	Dr. Nandini Vaz Fernandes & Stephen Dias	Zoology	Directorate of Higher Education, Govt. of Goa.	Science Promotion Scheme-‘Wildlife Monitoring Technique’	45000.00



RESEARCH PUBLICATIONS: 14 (Scopus/WoS/UGC listed)

Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal	
					Link to article/paper/abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
Range extension of <i>Microgomphus souteri</i> Fraser, 1924 (Insecta: Odonata: Gomphidae) to northern Western Ghats, India.	Halali S, Halali, D & Rangnekar, Parag	Journal of Threatened Taxa	2015	ISSN 0974-7907	doi10.11609/jott.2118.7480-7483	Scopus (Group 2)
“Stress during Pregnancy and Lack of Calcium and Folic Acid Increases Risk of Autism Spectral Disorder in Offspring”	Fernandes NV	International journal of Current Research and Review	2016	ISSN: 0975-5241	http://ijcrr.com/uploads/322_pdf.pdf	Scopus (Group 2)
Trace metal variability in nearshore waters along the central west coast of India.	D'Costa S. and I.K.Pai	Indian Journal of Geo Marine Sciences	2017	ISSN:09751033	http://nopr.niscair.res.in/bitstream/123456789/40779/1/IJMS%2046%282%29%20304-309.pdf	Scopus (Group 2)
Changing and Expanding Role of Teachers in Higher Education from ‘Information Dispenser’ to ‘Managers of learning’.	Sawant NN and Fernandes NV	Ajanta	2018	ISSN, 2277-5730	http://ugc-journals.com/Publisher-Wise-Journal/Ajanta-prakashan	UGC List - 40776
Genotoxicity Studies of Heavy Metals by Single Cell Gel Electrophoresis(SCGE) in Two Fish Species - <i>Puntius narayani</i> and <i>Rasbora daniconius</i>	Fernandes NV	Journal of Life Sciences	2018	ISSN: 0975-1270	DOI: 10.31901/24566306.2018/10.02.220	UGC List- 30475



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					Link to article/paper/abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
The spiny theridiid genus Meotipa Simon, 1895 in India,	Kulkarni,S, Vartak A, Deshpande, V & Halali, D	Zootaxa	2017	ISSN: 1175-5326 (print); 1175-5334 (web)	Doi4291. 504. 10.11646/	Scopus Listed
Observations on underwater oviposition in Pseudagrion indicum (Odonata: Coenagrionidae): an endemic species from the Western Ghats. 9.	Mujumdar, N, Thakuria, D, Halali, D & Koparde, P	Halteres.	2018	ISSN 09731555, 23487372	Doi:10.5281/zenodo.1255802.	Scopus
Degradation of Water Quality by Mining Effluents: Its Impact on Puntius narayani.	Fernandes NV	Indian Journal of Biology	2018	ISSN: 2455-8249	DOI: 10.21088/ijb.2394.1391.5218.6	UGC list -63682.
Genotoxicity Studies of Heavy Metals by Single Cell Gel Electrophoresis(SCGE) in Two Fish Species - Puntius narayani and Rasbora daniconius	Fernandes NV	Journal of Life Sciences	2018	ISSN: 0975-1270	DOI: 10.31901/24566306.2018/10.02.220	UGC List- 30475



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					Link to article/paper/abstract of the article	
Institutional Strategies for making Graduates more Employable- A study,	Sawant N N and Fernandes N V	International Journal of Education Science	2019	ISSN: 2456-6322 (O), 0975-1122 (P)	DOI: 10.31901/24566322.2019/24.1-3.1080	Web of Science (Group 2)
A comparative study on Dragonfly diversity on a plateau and agro ecosystem in Goa,India	D'souza A & Pai I K	Journal of threatened taxa	2019	ISSN:09747907	https://threatenedtaxa.org/index.php/IoTT/article/view/3667	Web of Science (Group 2)
Bioaccumulation of heavy metals from mining effluents in the tissues of Puntius narayani.	Fernandes NV	Journal of Human Ecology	2019	ISSN: 0970-9274	DOI: 10.31901/24566608.2019/68.1-3.3181	Web of Science (Group 2)
Lizards as predators of butterflies: shape of wing damage and effects of eyespots.	Halali, D, Krishna, A, Kodandaramiah U & Molleman, F.	Journal of the Lepidopterists' Society	2019	Open access	https://bioone.org/journals/the-journal-of-the-lepidopterists-society/volume-73/issue-2/lepi.73i2.a2/Lizards-as-Predators-of-Butterflies--Shape-of-Wing-Damage/10.18473/lepi.73i2.a2.short?tab=ArticleLinkCited	Scopus
Predictability of temporal variation in climate and the evolution of seasonal polyphenism in tropical butterfly communities	Halali S, Halali D, Barlow H et al.	Journal of Evolutionary Biology	2021	ISSN: 1010-061X (print);	https://onlinelibrary.wiley.com/doi/10.1111/jeb.13895?af=R	Scopus

BOOK/CHAPTERS: 05 (2016-2021)

Sr. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	ISBN/ISSN number of the proceeding	Name of the publisher
1	Fernandes NV	'Principles and Practice of Fetal Medicine', 2016	Genetic Testing: Indications, Types and Principles	ISBN- 978-93-85999-69-7.	Jaypee Medical Publishers
2	Sawant, N.N, & Fernandes, N.V	Modern Perspectives in Language, Literature and Education Vol. 8,2021	Chapter: Study on Curriculum Redesigning-Suggestive Framework for Skill Enhancement in Higher Education in India.	ISBN 978-93-91595-89-0 (Print) ISBN 978-93-91595-97-5 (eBook)	BP International Publishers, London WC1N 3AX, UK https://doi.org/10.9734/bpi/mplle/v8/4089F
3	D'Souza, R., & Fernandes, N. V	Modern Perspectives in Language, Literature and Education Vol. 8 , 2021	Chapter: A Perspective on an Interdisciplinary Approach to Education.	ISBN 978-93-91595-89-0 (Print) ISBN 978-93-91595-97-5 (eBook)	BP International Publishers,London WC1N 3AX, UK https://doi.org/10.9734/bpi/mplle/v8/4067F
4	Fernandes NV , Balekai M, Vaz T and Naik Goankar P	New Visions in Biological Science.Vol. 2, 2021	Chapter: Impact of Habitat Degradation on Mangrove Biodiversity	ISBN 978-93-91882-41-9 (Print) ISBN 978-93-91882-45-7 (eBook)	BP International Publishers, London WC1N 3AX, UK https://doi.org/10.9734/bpi/nvbs/v2/4066F
5	Dias SJ	New Visions in Biological Science.Vol. 3	Chapter: Determination of Fisher Perception towards Smooth-coated Otters (Lutrogale perspicillata): A Case Study in Western India	ISBN 978-93-5547-118-5 (Print) ISBN 978-93-5547-119-2 (eBook)	BP International Publishers,London WC1N 3AX, UK. https://doi.org/10.9734/bpi/nvbs/v4/1963C



New Visions in Biological Science Vol. 4

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BOOK/ CHAPTERS



Determination of Fisher Perception towards Smooth-coated Otters (*Lutrogale perspicillata*): A Case Study in Western India

Stephen Jonah Dias

New Visions in Biological Science Vol. 4, 8 October 2021, Page 58-65

<https://doi.org/10.9734/bpi/nvbs/v4/1963C>

Published: 2021-10-08

View Article

Cite

Statistics

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Abstract

Human-animal conflict is an important paradigm in a rapidly urbanising world. Various species, especially carnivores have to adapt to an ever-changing environment. This is amplified in riparian ecosystems, which are ecologically sensitive to change brought about by anthropogenic activities. This study aimed to assess fisher perception of Smooth Coated Otters (*Lutrogale perspicillata*) in an estuarine, urbanised landscape of Goa, India. Questionnaire surveys were conducted with the objective of understanding the current status of the species and fisher-otter interactions in the human-modified khazan areas of the Zuari estuary. The questionnaire was designed to procure data in four areas, namely otter presence, current and historical populations in the area; observed feeding habits; status as pests; and economic damages attributed to the species. Otter presence was reported in all the surveyed areas of the Zuari estuary. This study indicated a mixed perception of the fishers towards otters in terms of their status as pests, as well as incurred economic damages. Furthermore, the study also gave a preliminary insight into the abundance of *L. perspicillata* in the surveyed areas. The overall threat faced by the species in terms of fisher-otter conflict was found to be minimal in the landscape, with the absence of high degree retaliatory behaviour on the part of the fishers.

CONSULTANCY: 06 completed

Sr.No.	Name of the consultant	Name of consultancy project	Consulting/Sponsoring agency with contact details	Year
1	Dr. Nandini Vaz Fernandes	Training - technician on Genetic techniques	Mapusa district hospital	2015
2	Dr. Nandini Vaz Fernandes	Preparation of ' Biodiversity Heritage Site '(BHS) document for Curtorim	Curtorim Panchayat Govt. Of Goa	2015-2017
3	Dr. Nandini Vaz Fernandes	As member of Technical support Group (04 member team of the college) for biodiversity documentation work of PBR formation in Chandor .	Goa State Biodiversity Board. Govt. of Goa and BMC Chandor	2015-18
4	Dr. Nandini Vaz Fernandes	As member of Technical support Group (04 member team of the college) for biodiversity documentation work of PBR formation in Curtorim .	Goa State Biodiversity Board. Govt. of Goa and BMC Curtorim	2016-2020
5	Dr. Nandini Vaz Fernandes	Preparing ' Economic Revival Plan ' for Chandor Panchayat.	DHE – GIPARD, Govt. of Goa.	2019-2020
6	Dr. Nandini Vaz Fernandes	Policy Document: Mitigation of Mining issue (Outcome of DST-SERB project on mining)	Chief Minister, Govt. of Goa	2019-2020



MoU AND LINKAGES

MoU: 03



Ratnagiri Education Society's

**R. P. GOGATE COLLEGE OF ARTS AND SCIENCE AND
R. V. JOGALEKAR COLLEGE OF COMMERCE.**

RATNAGIRI - 415612, MAHARASHTRA

**RJG - Gogate
College, Ratnagiri,
Maharashtra**



**Department of Zoology
Carmel College,
Nuvem**



**Mangrove Society of
India
(MSI)**



LINKAGES: 34

LINKAGES: Environment conservation and Consultancy Works



**Goa Forest
Department**



**Goa State
Biodiversity
Board (GSBB)**

CURTORIM



SHOBIT ANCHO ADARSH GANV

**Biodiversity
monitoring
Committee,
Curtorim**



**Biodiversity
monitoring
Committee,
Chandor**



LINKAGES- INTERNSHIP

MEDICAL SECTOR: 18

1. Goa Medical College (GMC)
2. Hospicio hospital, Margao
3. Trimurti hospital
4. Mother care hospital
5. Rajagiri victor hospital
6. Divine medical centre
7. Dr. Mahesh Raikars pathological lab
8. Medilab, Ponda.
9. Centre for Genetic Health Care, Mumbai.
10. Ghodekars clinical lab
11. Atul's Clinical Lab
12. Sidad's pathology lab
13. Subarban diagnostics
14. Dr Abhijits fetal medicine and infertility centre
15. Shriprasad diagnostic laboratory
16. Womenite lab
17. Techno-clin pathology lab
18. Primary Health Centre, Canacona



LINKAGES- INTERNSHIP

WILDLIFE SECTOR: 08

1. Periyar wildlife sanctuary
2. Mhadei Research Centre
3. Nature conservation foundation, Mysore
4. IISER, TVM
5. IISER, Mohali
6. ICAR- Central Costal Agricultural Institute
7. Goa State Biodiversity Board
8. Goa Forest Department

FISHERY SECTOR: 04

1. National Centre for Sustainable Coastal Management, Chennai
2. Central Marine Fisheries Research Institute, Mumbai
3. Marine biology regional center, Zoological survey of India, Chennai
4. Department of Fisheries, Goa

