

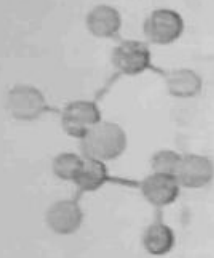
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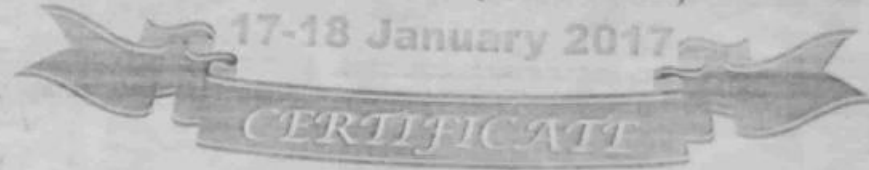
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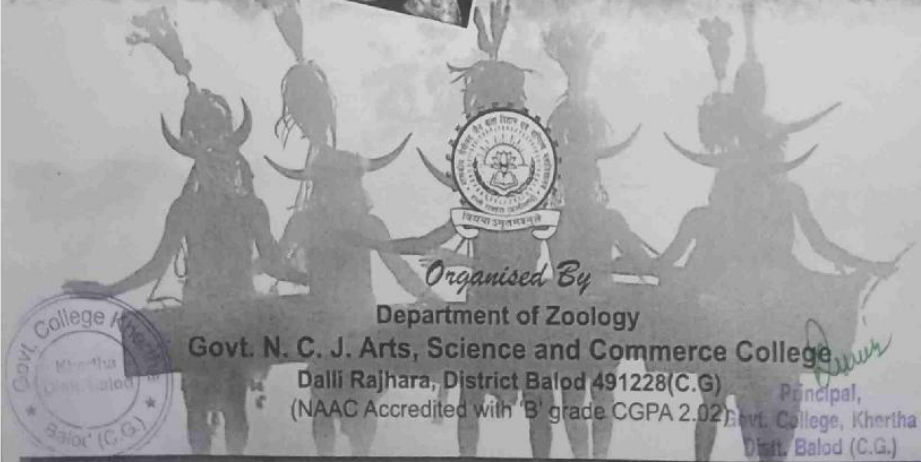


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National Conference on
"Tribal Health and Their Nutritional Status in Chhattisgarh
- New Vistas"

20th - 21st January 2017



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Index of Abstracts

Keynote Address

1. **Health of Tribals of Chhattisgarh**
A. T. Dabke

Invited Talks

2. **Strengthening Tribal Nutrition in Five Villages of Nandurbar District of Maharashtra**
Raghunandan Velankar, Gajanan Dange, Kapil Sahasrabudhe, Ramsingh Valvi
3. **Screening of Plants For Medicinal Activity and Publishing The Findings**
Sudha Chauhan
4. **Home Herbal Garden for Primary Healthcare in Chhattisgarh**
Nirmal Kumar Awasthi, Avdesh Kashyap
5. **Herbs for General Health and Well Being**
Dr. Poomima Singh
6. **Impact Assessment of Interrelationships between Food, Health and Tribal Communal ...**
V. K. Gupta
7. **Wild Foods for Nutrition, Health & Income of Tribal in Chhattisgarh**
Dr. Ulkarsh Ghate

Presentations

8. **Weeds as source of nutrition and medicine for the tribes of Chhattisgarh**
Suneeta Patra, A.K. Shrivastava, Anita Tikariya, Dipti Chouhan
9. **Blood group and its related disease in Pando and Paharikorwa tribes of Pando Nagar ...**
Amit Singh Banafar, Dr Atul Tiwari
10. **An overview: Some Tribal Culture and ethnicity of Living in harmony with the Mother ...**
Dr. R. Maheshwari, Dr. S. Gupta, Dr. K. Das
11. **Ethnopharmacological Studies of Some Weed Plants Used By Tribes of Chhattisgarh**
Deepti Chauhan, A.K. Shrivastava, Suneeta Patra
12. **Some Medicinal Plant Used in Gynecological Disorder By Tribal People of Mohla...**
P. Bansode, A. K. Shrivastava, S. Patra
13. **BMI- Body Mass Index of ST Girls of Dallirajhara**
Dr. Hema. Kulkarni, Ravish Das
14. **Valuable Ethanobotanical Knowledge of Plants among Tribals and their Conservation**
Dr (Mrs) M.L. Prasuna, Dr. M. Swali
15. **Tribes and Herbal Treatment of Diabetes**
Dr. Avinash R. Nichat
16. **Ethnomycological Conspectus of Nutritional and Health Potential Importance In Rural ...**
Onkar Chandra, Shipra Sinha
17. **Ethnopharmacological Knowledge Among Tribes of Chhattisgarh State**
Mrs. Gunjan Ojha
18. **Ethanobotanical Study of Cissus Quadrangularis (Hadjod)**
Sabiha Naz
19. **Medicinal Plant Knowledge Among Tribes**
Sandeep Kumar Tandon
20. **Sustainable exploitation, conservation, documentation and patenting of medicinal ...**
Pratiksha Pandey, Deepti Chauhan
21. **Extraction and Estimation of Chlorophyll from some medicinal plants of Chhattisgarh**
Mrs. Sujata Gaherwar
22. **Socio-cultural and Religious plants used by Gond, Halba and Baiga tribes of Dist ...**
Sohan Lal, Maheshwar Singh Sahu, Bhavna Dewangan, Deepali Koretti, Sunanda
23. **Social and Economic Status of Tribal Women in Chhattisgarh**
Dr. Harpreet Kaur Garcha, Shri M.K. Meshram
24. **जनजातियों का सामाजिक - आर्थिक स्तर**
डॉ. प्रवीण गुप्ता



25. आदिवासियों के भोजन में पोषण
कु. ज्योतिगाला
26. Traditional uses of Chrysanthemum for Health Benefits
Nisreen Husain, Lata Meshram
27. प्रकृति प्रदत्त खाद्य पदार्थ
शरदा कोरे
28. Processed Fish: Traditional Alternate Food Source in Rajnandgaon
Pramod Kumar Mahish, S. K. Thiske
29. To Study the Impact of High Iron Content in Water in Jagdalpur & Bastar District of ...
Anuj Narad
30. A survey on Malnutrition problem in Chhattisgarh State
Dr. Sonia Bajaj
31. To study the impact of Depression on the Academic Achievement of Tribal Children ...
Navneet Kaur Narad
32. Tribal's Outlook Towards the Wild Life
Dr. K N. Prasad, Dr. Sanjay Kumar Thiske
33. Medicinal Plants Used by Tribal People in Five Villages of Balod District
Dr. Charulata Philip
34. Statistical analysis of Sex ratio and Relation to Literacy of some selected area of C.G.
Mishra Alka, Dewangan Niharika
35. Report of Some Medicinal Plants used in Folk Medicine in Tribal Areas of Vidisha, M.P.
Dr. Vibha Choubey, Indu Soni
36. Health risk due to Heavy metals to the population feeds on fish "Oreochromis mossambicus" ...
Yaser Qureshi, Dr. Kanli Choubey
37. Arsenic Induced Pathogenicity Among Arsenic Infested Area of Human Population
Seema Tripathi, Usha Thakur, Kiran lata Damle
38. एण्डो जनजाति की सामाजिक आर्थिक स्थिति का अध्ययन (सूरजपुर जिले के विशेष संदर्भ में)
चन्द्रभूषण मिश्रा, डॉ धर्मेन्द्र सिंग
39. Economic Development of Tribal Population in Chhattisgarh
Dr. Kavita Singh
40. Association of Terminalia Arjuna with Human Health and Soil Health
S K. Pandey, Alok Joshi, Nitu Harmukh
41. Hematological Parameters on Few Fresh Water Fish
B. R. Sivare
42. गोंड जनजाति के विद्यार्थियों के सामाजिक आर्थिक एवं शैक्षिक विकास का तुलनात्मक अध्ययन
मंजूषा नामदेव
43. Relative study of health and education in tribal areas of Chhattisgarh region
Vikas Chandra Sharma
44. अनुसूचित जनजाति में लिंगानुपात (जिला बालोद के विकासखण्ड डौण्डी के विशेष संदर्भ में)
डॉ श्रीमती अनुग्रहिता जॉन
45. Influential inflicts of monsoon and agricultural practices among the population
Majid Ali
46. जनजातीय विकास हेतु सैधानिक प्रावधान एवं शासन की योजनाएँ
डॉ. सरिता स्वामी
47. छत्तीसगढ़ में जनजातियों का स्वास्थ्य एवं पोषण स्थिति - एक नवाचार
प्रो. के. एस. भारती
48. The role of herbs as Bio pesticides in integrated mosquito management - A review
Dr. Santosh Kumar Agrawal
49. Phytosociological Observations on Grassland at Durg-Bhilai Region under Different ...
Pratiksha Pandey, Deepti Chauhan, Bhawana Pandey





Report of Some Medicinal Plants used in Folk Medicine in Tribal Areas of Vidisha, M.P.

Dr. Vibha Choubey
Indu Soni

Govt. College, Arang
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Abstract

110 locally available plants used in folk medicine by the natives of district vidisha, M.P. have been listed below. The local Neem and botanical names and medicinal uses of each plant are given wherever available. The different plants as well as method of use and their distribution in Indian sub-continent are reported.

Key words- tribal areas, folk medicine, trial, results, ethnomedico.

Health risk due to Heavy metals to the population feeds on fish "Oreochromis mossambicus" of Budha sagar pond of tribal dominated Rajnandgaon district

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Abstract

Rajnandgaon is a tribal dominated district. 26% population of district comprises of Scheduled tribes. Heavy metals are health concern mainly for the food products obtain from aquatic origin. Fishes live directly and constantly in water containing contaminants.

Consumption of fish contaminated with the heavy metals is the most likely route for human exposure in sewage fed ponds used for fishery purpose. In this study presence of Pb, Cd, Hg, Fe and Cr is examined in fish tissues. Health risks associated with these heavy metals are assessed based on the target hazard quotient (THQ), which is derived from concentrations of heavy metals in fish consumed from this pond. Individual metal THQ (<1) values indicate the relative absence of health risks associated with intake of a single heavy metal through consumption of contaminated fish.

Risk contribution from Pb is minimum compared to the other elements. Fe is the major risk contributor. The order of THQ is Fe>Cr>Cd>Hg>Pb. It is observed same in Adults and Children. Maximum THQ found 0.3 and 0.8 in adults and children respectively.

MPI (Metal pollution index) shows cumulative effect of all the heavy metals investigated. It is maximum in Liver in summer season and minimum in the same tissue in winter season. Order of MPI in different tissues is Gill>Liver>Muscle.

Keywords: Heavy metals, Health risks, Target hazard quotients (THQ), MPI (Metal pollution index)
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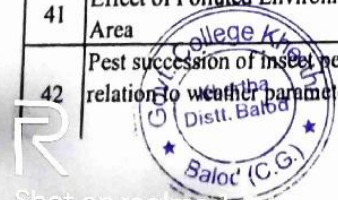


CONTENTS

S. No.	Title	Name of Author/Author's	Page No.
Scientific Programme			
Keynote Speaker			
1	Advances in Environmental Pollution and Waste Management through Mushroom Cultivation	M. P. Thakur	2
Invited Lectures			
2	Bioremediation of Pollution- a Biotechnological Approach	R.C. Dubey	4
3	Electronic Database of Some Medicinal Plants of Wardha District	T. Srinivasu and I. P. Ramteke	7
4	Solid Waste and Its Management through Vermicomposting : An Option to Achieve	S. K. Sahu	8
5	Biodiversity and Potential Famine Food of Chhattisgarh	M. L. Naik	10
6	Biotechnological Interventions for Sustainable Development of Biodiversity on Degraded land	Lal Singh, Hemant J. Purohit and Anoop Jaiswal	11
7	Intellectual Property Rights (IPR) for Innovation Technology for Environmental Protection	Sushil Kumar Shahi	12
8	Ecological and floristic studies of Sonbhadra District in U.P., India	Deepak Kumar Srivastva	13
Abstracts			
9	Effect of Cement dust pollution on Soil health	A. Khamparia , S.K. Chatterji and V. K. Kanungo	14
10	Qualitative and Quantitative Analysis of Secondary Phytochemical in <i>Gymnema sylvestre</i>	A. Kumar and S. Patra	15
11	Bioelectricity through electrogens using Microbial Fuel Cell	Alka Kaushik and S. K. Jadhav	16
12	Comparative study of Seasonal Variation in physico-chemical properties of water of river Kharoon in Effluent discharge area of Bhilai Steel Plant	Alka Mishra , Rinsy Mathew and Sakshi Mishra	17
13	To Identify <i>Staphylococcus aureus</i> In Clinical Pus Sample at Biochemical and Molecular Level with Special Reference to Vanomycin Resistance	Anamika Sharma, Deepika Yadav, Akanksha Lal and Pragya Kulkarni	18
14	Malaria knowledge and practice among Muria tribe of Bastar Region	Anand Murti Mishra	19
15	Palmar Dermatoglyphic Study Among Gadba Tribe of Baster C.G.	Anand Murti Mishra and Sharda Dewangan	19
16	Effect of sulphur level and different cultivars on yield parameters of pigeonpea (<i>Cajanus cajan</i> L.) under rainfed condition of Central India	Anil Kumar Jangde and Santosh Kumar Sahu	20
17	Cleaning The World of Wastes: Realising The Real	Anil Mishra and Suvendra Jenamani	21
18	Use and Conservation of traditional medicinal plants by Indigenouss People in Village Kapsi, Balod District, Chhattisgarh (india)	Anita Mahiswar and Shama Afroze Baig	22
19	Environmental Pollution: It's effects on life and its remedies	Ankita Singh	23



20	Climate Change and Water Scarcity.	Anupama Munaro	21
21	Impacts of Conservation Agriculture Practices on Soil quality	Anusuiya Panda , Awanish Kumar and Manoj Kumar Dew	21-3
22	Biodiversity conservation : Need of Present Era	Arun Singh and Sonal Mishra	24
23	Studies on the insecticide selling trend in vegetable pest management	Arvind Kumar Ayam, Chandramani sahu and J. L. Ganguli	25-6
24	Floristic diversity in Urban Homegardens of Raipur, Chhattisgarh	Avinash Kumar Sharma and V. K. Kanungo	27
25	Effect of some heavy metals on the fresh water fish	B. R. Sivare	28-7
26	Study on Aerosols from Mosquito Coils and Incense Sticks burning	Bharat Lal Sahu and Khageshwar Singh Patel	28-8
27	Use of Traditional Medicinal Plants for Treatment of Gastrointestinal Disorders	Bharti Sahu	29-9
28	Removal of Fluoride from Drinking Water by Using Nanoparticles	Bhavika Sharma, Sadhana Gupta and Bhawana Pandey	30
29	Role of Pesticides and Insecticides on growth of Microorganisms present in Biofertilizers	Bhawana Pandey and Pratiksha Pandey	31-1
30	Role of Nano Particles in Human Body	Bhawana Pandey, Bhavgyashree Deshpande and Varsha Chandrakar	32-2
31	<i>In vitro</i> Evaluation of Growth Inhibition of Pathogenic Bacteria by different Plant Extracts	Bhawana Pandey, Payal Agrawal, Priyanka Singh Baghel and Sadhana Gupta	33-3
32	Phyto- toxicity of <i>Eucalyptus citriodora</i> leaves on various germination parameters of certain weed species	Chandra Shekhar Singh and Ravindra Kumar Sahani	34-4
33	Utilization of natural enemies as tools for management of mealybugs	Chandramani Sahu, Jaya Laxmi Ganguli and R. N. Ganguli	35-5
34	To study the efficacy of Ashwattha Kasaya in the management of Gout	Chandreshwar Prasad Sinha and Pradeep Kumar Panda	36
35	Studies on <i>Nostocspingiaeforme</i> for heavy metal tolerance and its potential for phytoremediation	Chetna Gupta and PragyaKulkarni	37
36	Judicial Interference in Environmental Protection: The Need of The Hour	Debadutta Prusty	38
37	Effect of dust particles on orchid growth in Roadside area	Deepak Kumar Soni and S. K. Shahi	41
38	Study of Air Quality Status in Urla and Siltara Industrial Area in Raipur City	Deepak Sinha and Jaya Damanni	41
39	Species composition and distribution of plants of family Asteraceae in district Raipur of Chhattisgarh	Deepshikha Roy and V. K. Kanungo	42
40	Studies of Aeromycoflora of inside Govt College library Bhatapara, (C.G.)	Diksha Khare	42
41	Effect of Polluted Environment on Plants near Industrial Area	Divya Paikara, Bhawana Pandey and Sheetal Singh	43
42	Pest succession of insect nests in <i>Jatropha curcas</i> and their relation to weather parameters at Chhattisgarh plain	Doman Singh Tekam, Chandramani Sahu and J. L. Ganguli	44



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43	Solid Waste Management in Pathalgaon City Dist. Jashpur (C.G.)	Eeshwari Prasad Chelak, Shashi Kumar Markande and Kishore Oraon	45
44	Studied The Antimicrobial Activity of Folk Medicinal Plants Against UTI Pathogens	Eeswari Prasad Chelak and K. Sharma	46
45	Assessment of Phytochemicals, Antibacterial and Antioxidant Activity of <i>Centipeda minima</i> L.	Ekta Singh and Anil Kumar*	47
46	Study of Bioethanol Production from Decoiled Rice Bran by <i>Zymomonas mobilis</i> MTCC 9	Esmil Beliya, Kishan Lal Tiwari and Shailesh Kumar Jadhav	48
47	Allelopathic effects of <i>Parthenium hysterophorus</i> (L.) on Seed Germination and Seedling Growth in Grass Pea (<i>Lathyrus sativus</i> L.)	G. S. Thakur	49
48	Socio-Economic Change Due To Environmental Exploitation Of 'OnaKona' Village	Geeta Rai	50
49	Nanotechnology - It's Applications in Medical Science	Gunjan Ojha	50
50	Physiological Characterization of Rice in upland rainfed condition in relation to the grain yield	Hansa Sahu and Roshan Lal Sahu	51
51	Standardization quantitative estimation of solvent for phenol and flavinoids content in rhizome of <i>Costus speciosus</i> plant	Hari Shankar Yadav and P. K. Saluja	52
52	Application of ANN model to predict the performance of artificiallyroughened solar air heater	Harish Kumar Ghritlahre and Radha Krishna Prasadb	52
53	Study of aeromycoflora of Botany Museum, Govt. Nagarjuna P.G. Science College, Raipur	Harishankar Prasad , Priti Tiwari , Suneeta Patra and Mary Kusum Ekka4	53
54	Biological control of weeds for environmentally safer ecosystem	Hemkant Chandravanshi, Jayalaxmi Ganguli , Okesh Chandrakar and Shimla Gupta	54
55	Diversity and Economic Value of Medicinal Mushroom of Chattishgarh	Indu Soni and Madhu Y. Soni	55
56	Optimization of parameters for α -amylase enzyme production from bacteria isolated from vegetable waste	Jai Shankar Paul , B.M. Lall , S.K. Jadhav and K.L. Tiwari	55
57	Unravelling antioxidant and antibacterial activities of <i>Tephrosia purpurea</i>	Javid Ahmad Malik and Monika Bhadauria	56
58	Soil Contamination, Risk Assessment and Remediation	Jitendra Kumar Yadav , Amit Dixit and Mukesh Kumar Bairwa	57
59	Screening for resistance against major insect-pests of soybean at Raipur (Chhattisgarh)	Joshita Kujur, Chandramani sahu and J. L. Ganguli	58
60	Nature of Zoo- Diversity and Its Correlates: A Case Study of Rjanandgaon Distric C.G.	K.N.Prasad and Sanjay Thiske	59
61	Environmental Toxins and Ecotoxicology	Kaushilya Sahu and Hemkumari Patel	60
62	Isolation and characterization of actinomycetes for their keratin degrading abilities	Kiran Jain	61
63	Solid Waste Disposal	Kiran Lata Damle, Usha Thakur and Seema Tripathy	61

R

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64	<i>In vitro</i> activity of fosfomycin tromethamine against ESBL producing Enterobacteriaceae of urinary tract infections in India	Krishna Kumar Patel and Sarita Patel	62
65	Impact of climate change on Indian agriculture	Kusum Chandrakar and Yajvendra Katre	64
66	Study on practicability of hydroponial culture with some leafy vegetables known for medicinal properties in Chhattisgarh	Labya Prabhas and Megha Agrawal	65
67	Exploration of some Ethnomedicinal Herbs by Tribals from Kota Tahsil of Bilaspur District, Chhattisgarh	Lata Sharma and U. Shivhare	66
68	Assessment of Antioxidant Property of <i>Ocimum sanctum</i> , <i>Ocimum basilicum</i> and <i>Ocimum gratissimum</i> in-vitro.	Lohit Raj Shivwanshi and Anil Kumar	67
69	Foraging behavior of honey bees, <i>Aphis indica</i> on flower of coriander, <i>Coriandrum sativum</i> at Rajnandgaon (Chhattisgarh)	M. K. Chandraker, Chandramani Sahu, B. S. Asati and R.N. Ganguli	68
70	Environmental Exploitation	Madhulika Pandaw	68 9
71	Pollution and Waste Management	Madhurani Shukla and Kishore K. Tiwari	69
72	Biodiversity of Medicinal Plant and traditional uses to Health care	Mahendra Sivare	70
73	A Comparative Analysis of Drinking Water from Different Sources in Municipality Area of Dantewada, Chhattisgarh state, India.	Majid Ali and Nisreen Hussain	71 1
74	Bio-polymer producing strains and their optimization of culture technology for more production.	Mamta Patra Shahi	72 2
75	Effect of Biosolid Application on Soil Physical Properties	Manoj Kumar Dev, Anusuiya Panda and Birrendra Tigga	72 3
76	Morphological characteristics of some endophytic fungi isolated from Sal tree of Achanakmar- Amarkantak Biosphere Reserve	Manoj Kumar Mahish and R. V. Shukla	73 4
77	Soil Health Improvement through Composting using <i>Trichoderma</i>	Manoj Kumar Sahu and Meghchand Devangan	74 5
78	Bioremediation through micro-organism in Agro-Ecosystem of cereals and leguminous	Meghchand Dewangan, M.K. Sahu and B.C. Shukla	75 7
79	Medicinal Plants used for various health ailments by the Tribals of Bastar District Chattisgarh	Mithlesh Kumar Sinha, V.K. Kanungo and M.L. Naik	76 3
80	Therapeutic role of seed extract of <i>Tephrosia purpurea</i> in Ietrozole induced Polycystic Ovary Syndrome (PCOS) in rat model	Muddasir Basheer, Hindole Ghosh, Younis Ahmad Hajam and Seema Rai	77 10
81	Potential utilization of Water Hyacinth as Biofuel: An overview	N. Lata and Veenapani Dubey	78 11
82	<i>In vitro</i> therapeutic validation of <i>Daedaleopsis confragosa</i>	Nagendra Kumar Chandrawanshi, Devendra Kumar Tandia and S.K. Jadhav	79 12
83	Biodiversity Conservation through Community Based. Natural Resource Management in Perspective of Minor Forest Products	Neetu Harmukh, Rajesh Shukla and Santosh Kumar Pandey	80 14



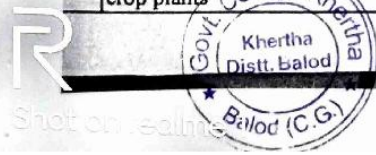
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84	Study of antibacterial property of Nirgundi leaves	Niharika Dewangan, Alka Mishra and A. K. Shrivastava	81
85	Medicinal Plants Used For Reproductive Problems In Chhattisgarh Tribes	Nishant Meshram and Mahendra Kumar Meshram	82
86	Eco-friendly and modern methods of waste recycling for enhancing agriculture profitability	Okesh Chandrakar, Hemkant Chandravanshi, Prakash Raichandani and Umesh Chandrakar	84
87	Environmental Pollution: Various Problem in Present Time	Pankaj Jain	85
88	Ethnomedicinal Plants used in the healthcare systems of tribal people in Chhattisgarh India.	Pankaj K. Sahu, Anushree Tiwari, Sonali Banerjee and Priyanka Pandey	85
89	Biological Control of Water Hyacinth for Environmentally Safer Eco-System	Parmeshwar Gore, Jayalaxmi Ganguli and Rubiya Bharti	86
90	Study of Family Malvaceae of Raipur	Pragya Dipika, Poonam Dewangan and V. Acharya	87
91	Study of Pesticide Tolerance Ability of Bacterial soil Isolates	Pragya Kulkarni, Deepika Yadav, Anamika Sharma and Aakansha Lal	88
92	Bio-fabrication of silver nanoparticles using <i>Parmotrema</i> lichen as potent microbial cell inhibitor	Pramila Khandel and Sushil Kumar Shahi	89
93	Water Audit: a case study of Govt. Digvijay Autonomous Post Graduate College Rajnandgaon, Chhattisgarh	Pramod Kumar Mahish	90
94	A Studies of endemic flora of Durg district (C.G.) India	Pratiksha Pandey and Sonal Mishra	90
95	Suitability of certain Cucurbits to Root Knot nematode (<i>Meloidogyne incognita</i>) attack	Preeti Chandra Xalxo and Aditi (Niyogi) Poddar	91
96	Anthelmintic activity of medicinal plants	Preeti lata Minz	92
97	Variations of Ozone concentration due to Volatile organic compounds at different sites in Guru Ghasidas Vishwavidyalaya Bilaspur (C.G.)	Priyanka Keshari	93
98	Water Quality Assesment for Drinking and Irrigation Purpose	Priyanka Tiwari	94
99	Impact of Greenhouse Gases on Plants	Purnima Seth	95
100	Ethenobotanical Survey of Aquatic Plants in Kanker City, Chhattisgarh (India)	R. Kuldeep and V. Acharya	96
101	No other tree type better than Sal (<i>Shorea robusta</i>) and its wild relative tree species sustaining ecological equilibrium in Chhattisgarh	R. V. Shukla	97
102	Determination of total cationic surfactants mixtures in waste water samples using LLE/DRS-FTIR probe	Ramsingh Kurrey and Manas Kanti Deb	98
103	Impact of Toxicants in Ecosystem	Ranju Gupta and L.P. Miri	99
104	Evaluation of leaf disease fungi from certain leguminous crop plants	Rashmi Devi Soni, R. Diwan R. and Smita Sharma	100



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105	Life Cycle of <i>Corcyra cephalonica</i> - a Unique Host for Bio Agents mass production	Rashmi Gauraha, Jaya Laxmi Ganguli and Sonali Deole	105
106	Effect of different medium on in vitro regeneration of <i>Bacopa monnieri</i> L. An Important medicinal plant.	Rashmi Sharma, Seema Upadhyay, Sonal Khandelwal and Vijaya Koche	106
107	In- vitro propagation of <i>Cissus quadrangularis</i> L. using different culture media	Rashmi Sharma, Seema Upadhyay, Sonal Khandelwal and Vijaya Koche	107
108	Screening of lipid producing Microalgae from Bilaspur for the development of biofuel	Ravi Kumar Yadav and S. K. Shahi	108
109	A preliminary Studies on diatom flora of Rajnandgaon (C.G.), India	Ravindra Sirmour and M.L. Naik	109
110	Infestation in Bitter Gord (<i>Momordica charantia</i>)	Reena (Sao) Sahu and Aditi Niyogi Poddar	110
111	Isolation of Fungal isolates from soil for production of xylanases	Rekha Gupta and Pragya Kulkarni	111
112	Sacred Groves: Tribal's Tradition of Biodiversity Conservation	Reshma Ekka	112
113	Energetics of Rice (<i>Oryza sativa</i> L.) Production as affected by crop establishment methods under Puddled Soil	Reshu Bhardwaj, M.K.Singh, Pradeep Kumar Dewangan, C.S.Singh and A.K.Singh	113
114	Bioremediation of gelatinous waste using <i>Streptomycesampsonii</i>	Richa Jain	114
115	The effects of environmental toxicants on fish behaviour	Richa Tikariha	115
116	Solid Waste Management : With special reference to Raipur City	Roopshikha Agrawal	116
117	Investigation of Bio-fertilizers influence on Essential Oil Content, Physiological and yield Traits of Coriander (<i>Coriandrum sativum</i> L.)	Roshan Lal Sahu and Hansa Sahu	117
118	Impact of Ash Pond on Groundwater Quality in and around a thermal power plant located in the district of Dhenkanal, Odisha	Rudra Pratap Pradhan and Sanjat Kumar Sahu	118
119	Study on Organic Cultivation of Edible Fungi (<i>Pleurotus spp.</i>) to help for sane environment	S. Hashmi , Vivekanand Sharma and Akshat Pandey	119
120	Legumes based Cropping Systems approaches for Soil Health and Crop productivity	S. K. Sahu, S. P. Sharma and R. N. Ganguli	120
121	Studies of Lipase Production Capability of <i>Fusarium</i> Species and Their Application in Oil Spillage Degradation	Sabiha Naz	121
122	A review on <i>Portulca oleracea</i> (Nonia bhaji): A Wonderful weed of Chhattisgarh	Sadhana Jaiswal and Deepali Rajwade	122
123	Monthly Estimation of fungal force to save crops	Sajal Deo and K.L.Tiwari	123
124	Role of community in environment conservation in India	Sandeep Shukla and Shweta Shukla	124



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25	Biotechnological Application for Conservation and Protection of Bioresource	Sandip Kumar Chandraker	118
26	Mass Production of Bio Pesticides (<i>Trichoderma</i> , <i>Pseudomonas</i>) and Bio Fertilizers (<i>Rhizobium spp.</i>) at Regional Level of Chhattisgarh through Training and Demonstration	Sant Ram Sahu, Manoj Kumar Sahu and R. K. S. Tiwari	119
27	A Significant Role of Macrophytes in lentic Ecosystem	Satish K. Sen and Deepak Karkun	120
28	In vitro Degradation of Plastic by microorganism isolated from dumping yard of Raipur, Chhattisgarh	Satyam Kumar Kumbhakar	121
29	Thyroid Disruption in <i>Oryctolagus cuniculus</i> L. caused by Environmental Contamination of Arsenic	Seema Tripathi and Anil Kumar	122
30	Aeromycoflora born allergic diseases and its treatment in Raipur city.	Shahla Khan, V. K. Kanungo and S.K. Jadhav	123
31	The study of Ethnobotanical Documentation and Phytochemical analysis of few medicinal plants in Rajnandgaon District, Chhattisgarh (India)	Shama Afroze Baig and Anita Mahiswar	124
32	Biodiversity of Medicinal Plants under conservation	Shashi Kumar Markande and Amit Sharma*	125
33	Soil Carbon Sequestration in relation to different land use/land cover in Achanakmar	Sheikh Iqbal and S.C. Tiwari	126
34	Prospects of nanotechnology in agriculture	Shimla Gupta, Hemkanti Chandravanshi, Vishakha Tiwari and Shraddha Sharma ⁴	127
35	Pigeon Pea Pest and Their Management with respect to Environment	Shimla Gupta, Jayalaxmi Ganguli and Navneet Rana	128
36	Strawberry: An Effective protocol for production of good planting materials in large quantity	Shishir Prakash Sharma and R.N Ganguli,	128
37	Strawberry: A newly introduced high value remunerative fruit crop in Chhattisgarh; region, its cultivation techniques	Shishir Prakash Sharma and R.N Ganguli,	130
38	Hepatoprotective activity of medicinal plants in Indian folk medicine	Shobha Gawri	131
39	Heavy Metal Contamination of Road Dust in Central India	Shobhana Ramteke and Khageshwar Singh Patel	132
40	Ecotoxicology and Environmental Monitoring	Shraddha Sharma, Shimla Gupta and Vishakha Tiwari	133
41	Study of Antibacterial activity of <i>Nyctanthes arbor-tristis</i> Linn. Against some Human Pathogenic Bacteria and Its Phytochemicals	Shubha Gupta, Kumudini Indira Toppo, Deepak Karkun and Anil Kumar	134
42	Fertilizers and Environmental Degradation	Simpal Patil	135
43	Chlorococcales Algae in Katora Pond of Raipur City	Smriti Chakravarty and M. L. Naik	136
44	Effect of pH in plant growth in Rajnandgaon	Smriti Jain	137
45	Phytosociological and Ecological studies of plant species around Govt G.S.G. P.G. College Campus of Balod (C.G.) India	Sohan Lal	138
46	Study of aeromycoflora of Government Digvijay P.G. College Campus, Rajnandgaon, Chhattisgarh, India	Sonal Mishra and Neelima Pandey	139



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Dist. Balod (C.G.)

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147	Influence of Coal Fly Ash on Physico-chemical characters of soil	Sonal Mishra, Trilok Kumar, S.V.K. Prasad and V.K. Kanungo	143
148	Natural Enemies of Chilli (<i>Capsticum annum</i> L.) Insect Pests and Their Importance in Pest Management	Sonali Deole, Y.K. Yadu and Rashmi Gauraha	143
149	Spectrophotometric Determination Of Vanadium In Environmental Samples Using N-Benzyl Cinnamo Hydroxamic Acid As Analytical Reagent	Surendra Kumar Rajput , Anita Patel and Kishor Narayan Bapat	141
150	Exploration and Conservation of Medicinal Plants at Chaiturgarh Hill	Sushil kumar Agrawal , Vedvrat Upadhyay and Nidhi Singh	142
151	Sustainable Development and Green Technology: The Best answer to Climate Change	Sushma Mene and Anuradha Sahu	143
152	A novel technique for the rapid determination of phosphate in organic phase using single drop microextraction with attenuated total reflectance – Fourier transform infrared spectroscopy (ATR-FTIR) technique in real sample	Swati Chandrawanshi and Manas Kanti Deb	144
153	Isoprene emission from common tropical tree species of Central India: Its implications for regional air quality	Tanzil Gaffar Malik and Sudhir Kumar Pandey	145
154	Removal of Fe(II) using <i>Aspergillus flavus</i> from aqueous solution	Tikendra Kumar Verma, K. L. Tiwari and S. K. Jadhav	146
155	Floristic diversity of Government Eklavya College Campus, Dondi Lohara, District- Balod, Chhattisgarh, India	Trilok Kumar, Sonal Mishra S.V.K. Prasad and V.K. Kanungo	147
156	Pollution and It's effect on fisheries	Usha Thakur	148
157	Present Climate change: need for creating bibliographic information	Veenapani Dubey	149
158	Analysis of toxicant of fertilizer industry waste effluent at Bhopal (M.P.)	Vibha Choubey and Parmita Dubey	150
159	Ethno medicinal plant diversity in Bhupdeopur Reserve Forest area of District Raigarh, Chhattisgarh	Vijay Laxmi Naidu , Dr.A.N bahadur and Dr.V.K .Kanungo	150
160	Arsenic speciation in village grown rice grains from Ambagarh Chowki, India: Spatial distribution and prospective health hazard	Vikas Kumar Jain , Nitin Kumar Jaiswal and Balram Ambade	151
161	Environment biotechnology application for environment protection	Vishakha Tiwari , Shimla Gupta and Shradha Sharma	152
162	Studies on Energy Potential of Sewage Sludge and Algae	Yaman Kumar Sahu and Khageshwar Singh Patel	153
163	Uptake of Heavy Metals by <i>Oreochromis mossambicus</i> from Sewage Fed Budha sagar Pond of Rajnandgaon (C.G.)	Yaser Qureshi and Kanti Choubey	154
164	Retrieval of Hepatorenal Complications by Exogenous Melatonin Treatment (A Magic Molecule) in Streptozotocin Induced Diabetes	Younis Ahmad Hajam, Muddasir Basheer, Hindole Ghosh and Seema Rai	155



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**UPTAKE OF HEAVY METALS BY *OREOCHROMIS*
MOSSAMBICUS FROM SEWAGE FED BUDHA SAGAR
POND OF RAJNANDGAON (C.G.)**

Yaser Qureshi¹ and Kanti Choubey²


¹Asst. Professor, Deptt. of Zoology,
Govt. College Khertha, Distt. Balod, C.G.

²Professor & Head, Deptt. Of Zoology,
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Heavy metals have a tendency to accumulate in living system. Investigations on the bioaccumulation of heavy metals (Fe, Pb, Cr, Cd and Hg) are observed in Muscle, Gills and Liver of fish "*Oreochromis mossambicus*". The results revealed that heavy metals tend to accumulate in different tissues of fish. The accumulation is observed in tissues such as gills, liver and muscle. All the tissues investigated shows accumulation of Fe and Cr. Only one sample of gills from all tissues investigated shows presence of Hg. Their pattern of accumulation in investigated tissues was Fe > Cr > Hg > Cd. Pb did not found in any sample. Fe shows maximum tendency of accumulation. Fe accumulation is found in order of Liver > Gill > Muscle. Cr is second most abundant metal. It shows maximum tendency to accumulate in muscle than gills and after that in liver. Although Fe is found in higher concentration but other metals are found in limit prescribed by FSSAI/ FAO/ WHO.

Key words: Heavy Metals, Bioaccumulation




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(दिनांक 7 एवं 8 फरवरी 2017)

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He/She has presented a paper/invited Talk entitled Effect of certain heavy metals
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Govt. Dr. B. S. B. A. P.G. College Dongargaon (C.G.) held on 13th February 2020.


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