

Volume - 10 - Lock Down Special

**COVID-19** 

**Year - 2020** 

he e-news letter published by the Society of Life Sciences. Through this official publication, the activities of society and achievements of its members are highlighted. For research paper/review, the Society of Life Sciences publishes a regular Peer Reviewed Biannual Research Journals......National Journal of Life Sciences and Life Science Bulletin.



Dr. Rashmi Singh Editor-in-Chief

Dr. Ashwani Kumar Dubey **Executive Editor of this Edition** 

Dr. Pragya Khanna **Managing Editor** 



Volume - 10 - Lock Down Special

COVID-19

**Year - 2020** 

9th
Annual
Session

The Ninth Annual session of Society of Life Sciences, Satna (M.P.) and National Conference on *"Climate Change and Global Health Management"* was organized on *1st-2nd February,2020* by Environment and Social Welfare Society at UNESCO Heritage site Khajuraho (M.P.). in association with Bhopal Chapter NASI & Zoological Survey of India, Kolkatta and in collaboration with Shri Krishna University, Chhatarpur (M.P.).

In this conference Chief Guest was His Highness Mr. Pushpraj Singh, Honourable Former Education Minister, Govt. of M.P. Key note speakers were Prof. H. S. Sharma former Professor, University of Rajasthan, Jaipur. Dr. Nandita Pathak, Social Entrepreneur, Ms. Annie Durrant, Psychologist, Wales, UK. were Guest of Honour. Dr. Ulrich Berk, German Association of Homa Therapy, Germany and other distinguished guests, participations from various part of India listener including media were participated in conference. Prof. K.K. Sharma, Former Vice Chancellor, M.D.S University, Ajmer (Rajasthan), Dr. K.S. Tiwari, Former Director, IGNOU, Bhopal (M.P.), Dr. A.K. Pandey, working President Society of Life Sciences, Lucknow, Dr. Rashmi Singh, Satna were some of the Key note speakers of Technical Sessions An exhibition was also arranged along with conference.

Dr. Ashwani Kumar Dubey (Organizing Secretary & President ESWS) actively co-ordinate the conference with their team. More than 100 participants in the form of academicians, scientists and researchers from different states of the country participated in this National conference. The following scientist awarded by SLS Best Scientist Award and SLS Fellowship Award 2020 by Chief Guest.





### CVS Etter (e-newsletter of The Society of Life Sciences)

Volume - 10 - Lock Down Special

COVID-19

**Year - 2020** 

9th
Annual
Session



The Society of Life Sciences

The Ninth Annual session of Society of Life Sciences, Satna (M.P.) and National Conference on "Climate Change and Global Health Management" was organized on 1st-2nd February,2020 by Environment and Social Welfare Society, Khajuraho (M.P.). The following scientist were awarded by SLS Fellowship Award, SLS Recognition Award and Young Scientist Award 2020.



























Volume - 10 - Lock Down Special

COVID-19

**Year - 2020** 

## Live Webinar on Basic Concept of Zoology & Environment 27th-28th May 2020





The Society of Life Sciences, Zoological Society of India and Baraktullah University Bhopal were jointly organized Live Webinar on "Basic concept of Zoology & Environment" in collaboration with Adarsh Institute of Management & Science, Dhamnod, from 27-28 May 2020.

Coordinator of this webinar was Prof. Shailendra Sharma, Principal AIMS, Dhamnod (M.P.)



Volume - 10 - Lock Down Special

COVID-19

**Year - 2020** 

# International Webinar on COVID-19: Challanges & Opportunities for Sustainable Environmental Development 05th-07th June 2020



The Society of Life Sciences, The National Academy of Sciences India, Bhopal Chapter and The Academy of Environmental Biology were jointly organized International Webinar on "COVID-19: Challenges & Opportunities for Sustainable Environmental Development" in Collaboration with A. K.S University Satna (M.P.) from 05-07 June 2020 on the occasion of World Environment Day.

Coordinator of this webinar was Prof. Mahendra Kumar Tiwari Professor & Head Dept. of Environmental Science, A.K.S University Satna (M.P.)



### Newsletter



**Year - 2020** 



Dhiraj Kumar Sahu 0:14

On the occasion of World Environment Day the Society of Life Sciences, Zoological Society of India and Bhopal Chapter National Academy of Sciences India were jointly organized International Webinar on "Life Security in Current Scenario (LSCS)" in Collaboration with Adarsh Institute of Management & Science, Dhamnod from 05-06 June 2020.

Coordinator of this webinar was Prof. Shailendra Sharma, Principal AIMS, Dhamnod (M.P.)

Chairman, UGC



Volume - 10 - Lock Down Special

COVID-19

**Year - 2020** 

Virtual International Conference on

### Yoga & Meditation Necessary for Life Security 25th-26th June 2020

Adarsh Institute of Management & Science Dhamnod, M. P. Zoological Society of India (ZSI), Bodhagaya The Society of Life Sciences (SLS), Satna. M.P Vindhya Shiksha Prachar Samiti, Bhopal



Society of Life Sciences (SLS), The Adarsh of Management & Institute Science Dhamnod, M.P., Zoological Society of India (ZSI), Vindhya Shiksha Prachar Samiti, Bhopal were jointly organized virtual International Conference and "Yoga Meditation Necessary For Life Security" 25-26 from June, 2020. "Vasudhaiva Kutumbakam" Coordinator of International Conference was Prof. Shailendra Sharma, Principal AIMS, Dhamnod (M.P.)





## Newsletter

Volume - 10 - Lock Down Special

**COVID-19** 

Year - 2020

#### National Webinar on

### Biodiversity Conversation & It's Management

15th-16th July 2020

### Govt. Girls' P.G. College, Ujjain

A Centre for Excellence - "A" Graded by NAAC (2 Cycle)

#### Zoology & Biotechnology Department

Organizes Two Days National Webinar On

#### Biodiversity Conservation and Its Management

In Collaboration with Zoological Society of India (ZSI) & The Society of Life Sciences (SLS)







Date - 15th and 16th July 2020, Starts 2.00 PM

lst Day nvited Speaker (15"July,2020)



Prof. B.N.Pandey





lind Day vited Speak (16"July,2020)





M.D. University, Rohtak (Haryana)



**Prof. Shivesh Pratap Singh** Govt. Autonomous P. G. College, Satna

(A centre for excellance) has organized National Webinar two days Conservation "Biodiversity and it's Management" from July 15-16, 2000 in Association with Zoological Society of India, Bodh Gaya (Bihar) & The Society of Life Sciences. It was a grand success as more than 2000 participants were registered and more than 3000 people viewed it on Youtube. My heartiest congratulations to Dr. Leena Lakhani, Convener of this Webinar and Principal Dr. Ulka Yadav.

Govt. Girl's P.G. College Ujjain M.P.











Volume - 10 - Lock Down Special

COVID-19

**Year - 2020** 

## Interational E-Conference on Role of Applied Zoology in Current Scenerio 24th-25th July 2020



DLS. P.G. College, Bilaspur (C.G.) & AIMS, Dhamnod (M.P.) have successfully organised International Webinar on "Role of Applied Zoology in Current Scenario" In Association with The Zoological Society of India (ZSI) Bodhgaya & The Society of Life Sciences (SLS) from 24-25 July, 2020. My heartiest congratulations to Ms. Sunita Dwivedi, Head Dept. of Zoology of D.L.S. College, Convener for her co-ordination.



Volume - 10 - Lock Down Special

COVID-19

**Year - 2020** 

#### National Webinar on

### Impact of COVID-19 in Human Life & Environment

29th-30th July 2020



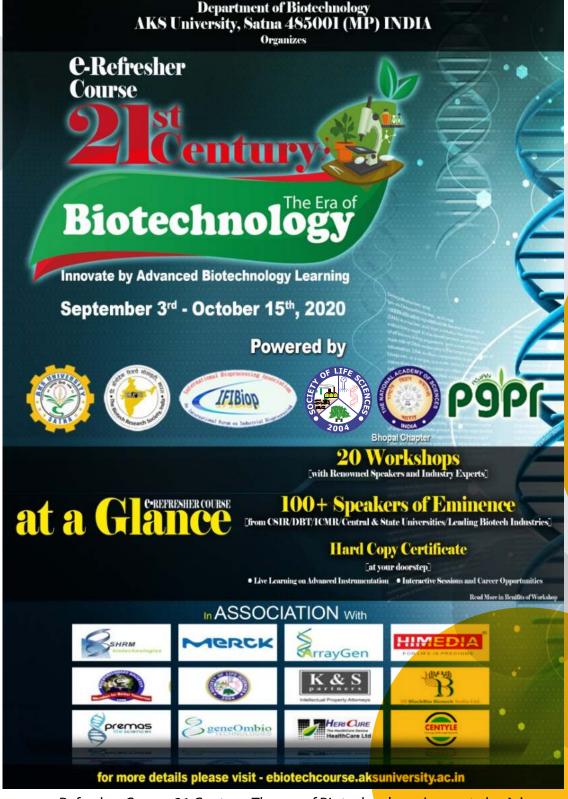
P.G. Dept. of Botany, Government Autonomous College, Satna and Dept. of Biotechnology, Shri Rama Krishna College, Satna (M.P.) have successfully organised National Webinar on "Impact of Covid-19 in Human Life and Environment" In association with The Society of Life Sciences (SLS) and The National Academy of Sciences, India Bhopal Chapter on 29-30 July, 2020. Convener of this National Webinar was Prof (Dr.) Rashmi Singh, Government College, Satna and Organizing Secretary Dr. Jaya Singh, Shri Rama Krishna College, Satna (MP).



Volume - 10 - Lock Down Special

**COVID-19** 

**Year - 2020** 



e- Refresher Course 21 Century, The era of Biotechnology; Innovate by Advanced Biotechnology Learning Organised by: Department of Biotechnology A.K.S University, Satna (M.P.) in Association with The Society of Life Sciences from September 3rd to 15th October 2020



Volume - 10 - Lock Down Special

COVID-19

**Year - 2020** 

#### National Webinar on

### Importance of Applied Zoology in Current Scenario

4th November 2020



### National Webinar on **NEP 2020** 13th September 2020











Dr. Vipin Vyas Professor in Dept of Limnology, arkatullah University, Bhopal, M.P.



Prof. Dr. Hemant Kumar Shukla Professor, Department of English, MVPG College, Haldwani, Uttrakhand.



Dr Dilip Kumar Rathore Assistant Professor of Botany Government College Bundi (Rajasthan)

> Prof. Shivesh Pratap Singh, Head, Deptt of Zoology Govt. Autonomous P.G. College, Satna, MP

Date: 13/09/2020 Time: 11:00 AM to 01:00 PM

Webinar will be organized on ZOOM Platform and Youtube Live available on link

Registration Link https://docs.google.com/forms/d/IwWcJxWtcScGQmwEqcrbZ9x0ZogC7RwLXE9EVuG4jr8g





## I CVS etter (e-newsletter of The Society of Life Sciences)

Volume - 10 - Lock Down Special

**COVID-19** 

**Year - 2020** 

### Prof. Shivesh Singh delivered lecture in Refresher Course, National Webinar in Capacity of Resource Person/Key-Note Speaker





Volume - 10 - Lock Down Special

COVID-19

**Year - 2020** 

National workshop on

### "Opportunity and Extension in the field of Entrepreneurship Development" February 11-17, 2020

Bhopal Chapter, National Academy of Sciences India, organised 7 days National workshop on "Opportunity and Extension in the field of Entrepreneurship Development" from February 11-17, 2020 In Association with Society of Life Sciences and A.K.S University, Satna (M.P.) at Govt. P.G. College, Satna. The workshop provided an opportunity to the Science Post Graduate students by Training and demonstration on enhanced value products which offer suitable opportunity and Employability in the field of Entrepreneurship.

Dr. Arun Shrivastava, Regional officer, M.P. Pollution Control Board, Satna and Dr. Rajesh Saxena, Principal Scientist MPCST, Bhopal were the guests of first day of workshop. Welcome of Guests by Dr. Rashmi Singh, Head Dept. of Botany, Govt. P.G. College, Satna. 118 Post graduate and research students have registered and regularly attended the workshop.







Field demonstration arranged for registered participants at Sonaura Forest Nursery (For demonstration of Bamboo treatment, Agarbatti manufacturing, Bamboo tiles, Bamboo poles, Nursery management) and at A.K.S. University, Satna (For demonstration of Mushroom farming, Vermicomposting, Food Processing, Floriculture).





During workshop lecture series were arranged i.e Dr. Hakim Singh, Ex. Principal (Rewa), Mr. Pradeep Kumar Pathak, Ex. General Manager Production Ultratech Cement, Satna; Shri Rajiv Mishra, IFS Conservator of Forest & DFO, Satna; Er. Ajeet Sarathe, HoD Agriculture Engineering AKS University; Er. Rajesh Mishra, HoD Food Technology AKS University; Prof. S.S. Tomar, Dean Agriculture Science AKS University Satna; Mr. Manish Nagrath, Aquarium House Satna; Shri Anil Shrivastava, Fisheries Department Satna; Dr. Niraj Kumar, Executive Secretary NASI, Prayagraj; Dr. Moh. Maqsud, Institute of Applied Sciences, Prayagraj; Dr. Anees F Rizvi, Institute of Applied Sciences, Prayagraj were the resource persons of workshop.



Chief Guest of Valedictory function was Prof. P.K. Banik, Vice Chancellor A.K.S University, Satna whereas Smt. Shaila Tiwari, Anupama Education Society. Ex. Member Consumer Forum was Special Guest and Dr. Neerja Khare, Principal Govt. Autonomous P.G. College Satna preside the Valedictory function. Participation certificates were distributed by guests. Vote of thanks to guests were given by Dr. Mahendra Kumar Tiwari, Head, Dept. of Environmental Sciences, AKS University Satna.



Volume - 10 - Lock Down Special

COVID-19

**Year - 2020** 







32 All India Congress of Zoology (AICZ) and International Conference on "Life Security on Earth" has been organised on 22-24 Feb.2020 at Mandu, Dhar (M.P). Chief Guest was Shri Kailash Satyarthi, Nobel

ZOOLOGICAL SOCIETY OF INDIA Certificate of felicitation Dr. Shirrish Pratap Singh, Sitrii Regional Chapter of KSI-Central Kone Inchange of Regional Chapter-XFF particularly, in the field of All India Congress of Roology (Thee), M.P. from 25 Feber

Laureate & Child Right Activist where as Special Guest were Prof. **B.N. Pandey**, President ZSI, Prof. Sangeeta Shukla, Vice Chancellor Jiwaji University, Gwalior; Prof. R.J. Rao, Vice Chancellor Barakatullah University, Bhopal, Prof. Renu Jain, Vice Chancellor Devi Ahilya University, Indore, Dr. Gulshan Ara, President ZSI Bangladesh, Dr. N.K. Dhakad, Ex. Vice Chancellor Devi Ahilya University, Indore and Dr. Binoy K. Chakraborty, Bangladesh On this occassion Dr. Shivesh Pratap Singh, falicitated by ZSI Medal and Certificate.

Its pride movement for me to spend some times with Nobel Laureate Honorable Kailash Satyarthi ji on 23rd February 2020 during All India Congress of Zoology & International conference on Life security on Earth held at Sri Ram Chaturbhuj

of the Conference.













### Science & Technology Intervention for the welfare of tribal Populations

THE INDIA

24-25 Feb. 2020

Institute of Life Sciences, Bhubaneswar

Volume - 10 - Lock Down Special

COVID-19

**Year - 2020** 









The NASI project entilled "Participatory observation of Ethno-medicinal practices of the tribal of Balaghat & Chitrakoot districts of Madhya Pradesh-its documentation and conservation of those plants." implementing in Government Autonomous P.G. College, Satna(M.P.), Government JST P.G. College, Balaghat (M.P.) and Arogyadham, Deendayal Research Institute, Chitrakoot, Satna (M.P.) in seession 2019-2020, 2020-2021. Dr. Rashmi Singh, Professor & Head, Department of Botany, Govt. Autonomous P.G. College, Satna (M.P.) is Principal Investigator and Dr. Manoj Tripathi, Senior Research Officer & In charge (Ayurveda Sadan) Arogyadham D.R.I., Chitrakoot, Satna (M.P.) and Dr. Praveen Koushley, Asst. Professor Botany, Govt. P. G. College, Balaghat (M.P.) are Co-Principal Investigators.

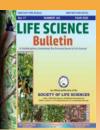
I am participated as Project coordinator (Science & Technology intervention in various activities for the welfare of scheduled tribes under 'NASI-ST Sub Plan) in the mega event of Institute of Life Sciences (ILS), Bhubaneswar (Odisha) from 24-25 February 2020. The programme has drawn up and implemented for improving the traditional knowledge and economic status of the Scheduled Tribes mainly; as well as other backward classes were also included for the sake of their awareness. Dr. Manoj Tripathi, (Co-Principal Investigator) Arogyadham D.R.I., Chitrakoot also participated with some tribal beneficiaries of Chitrakoot area in conclave and displayed two traditional herbal formulations (Gaisantak churna and Vatnashak teil) in an exhibition arranged on the campus of ILS, Bhubaneswar.



Published by - Akhilesh Gupta, Business Manager for Society of Life Sciences, Richa Offset Printers, Satna for free circulation to members of Society of Life Sciences.

Designed By - Prakash Tripathi +91 9109082003





### Peer Reviewed Research Journal

ISSN: 0973-5453 (Print), 2321-7952 (Online)

Published by: SOCIETY OF LIFE SCIENCES

(Abbreviation : LSB) NAAS Rating: 3.47

Volume 17 Number 1&2 June & December 2020 CONTENTS 01. B. N. Pandey 01 - 04Environment, spirutualism Vs. Life security on earth in current scenario. 02. Bungdon Shangningam, Shibananda Rath and Laishram Kosygin 05-07 A first report of Sperata aorella (Blyth, 1858) from Western ghats, India. 09-14 03. Ashish Kumar Panda, Anil Kumar Gupta and Amarjeet Kaur Participatory assessment of climate risk and vulnerability of infrastructure and agriculture systems through grampradhans across eleven block of Almora district, Uttarakhand, India. 04. Hamida Khanum, Rimi Farhana Zaman, Md. Kabir Hossain and Md. Fahad Zamil 15-18 Parasitic infestation found in the cockroaches *Periplaneta americana* in Bangladesh. 05. Devendra Mishra, V. K. Sharma and Asha Pal 19-22 Factors influencing the population of Odonates in pond habitat of Indore. 06. Vandana 23-24 Studies on haemato-biochemical profiles of Indian catfish (Clarias batrachus Linn.) fed diets containing various levers of gossypol for 12 weeks. 07. B.S. Thorat 25-27 Histopathological study of Amoebotaenia jadhavae n.sp. from Gallus domesticus at Soygaon dist. Aurangabad (M.S.). 08. Umesh Kumar Sharma and Vijay Kumar 29-31 Heavy metal induced impairment in plasma biochemical indices in a fresh water teleostean fish Channa gachua (Ham.) 09. Chandralata 33-34 Studies on some aspects of nutritional energetics in a siluroid fish, Clarias batrachus (Linn.). 10. Priti Kusum 35-36 Studies on occurrence of some common aphid species on different crops in and around Patna. 11. Anita Kumari and Kamta Prasad Singh 37-40 Comparative studies on morphology and histology of thyroid gland of teleostean fishes in relation to their breathing habit. 12. V. Sailaja, K. Madhava Reddy and G. Ravanaiah 41-44 Gorojanam and its applications. 13. Manoj Kumar Singh 45-48 Effect of environmental factors on the cyclic activity of thyroid gland in Heteropneustes fossilis (Bloch). 14. Bitun Kumar Ray and Vijay Kumar 49-51 Studies on ovarian cycle in a fresh water teleostean fish *Mystus vittatus* (Bloch). 53-54 15. Jyoti Priya Studies on histology and histochemistry of kidney of a teleostean fish, Channa marulius 55-56 16. Tulika Das and Vijay Kumar Respiration in a teleostean fish, *Rita rita* (Ham): Pesticides intoxication. 57-58 17. Om Prakash Studies on the effect of sublethal Malathion exposure on the blood of a fresh water teleost, Lepidocephalichthys guntea (Ham). 18. Ghousiya Imam 59-60 Limnological studies of pond near Kanhai high school of Nawada district. 19. Rahul Singh Gajendra, Narendra Bahadur Singh and Sukrita Tirkey 61-66 Traditional uses of medicinal plants by Madia tribes in Dantewada district, Chhattisgarh, India. 20. Chitralekha Sinha 67 - 72A comparative study of surface and bottom water at two different sites of Hardia wetland of Saran district of North Bihar, India. 21. Priti Kusum 73-75 Studies on the aphid infestation in potato in Bihar. 22. Minakshi Kumari and Vijay Kumar 77-78 Malathion induced haematological changes in a teleostean fish, *Mystus vittatus* (Bloch). 23. Kusum Changeriwal 79-80 Effect of different culture medium on regeneration of *Riccia gangetica* Ahmad. 81-82 24. Anita Kumari Studies on a shift in metabolic pathway of Clarias batrachus (Linn) exposed to furadan (A carbamate pesticide). 25. P.V. Patil 83-84 Diurnal fluctuations in some physico-chemical factors at Domari dam tq. and dist. Beed (M.S.). 26. Bitun Kumar Ray and Vijay Kumar 85-86 Studies on quantitative changes in the circulating blood parameters of a teleostean fish, Macrognathus aculeatus (Bloch) exposed to Alkron. 27. Ahinsa Pandey and Nidhi Tripathi 87-88 Assessment of hematological parameters among rice mill workers of Uttar Pradesh. 89-93 28. Nilesh Kumar Singh and S. K. Singh A comparative study of impact of open cast coal mining on frequency and body length of identified soil insects in both mining areas of Jharia coalfield and non-mining areas of Dhanbad (Jharkhand). 29. Umesh Kumar Sharma and Vijay Kumar 95-96 Evaluation of acute toxicity of Ekalux EC on TCDC in fresh water fish, Mystus vittatus (Bloch). 30. V. Sailaja, P. Uma Maheshwari, G. Ravanaiah and K. Madhava Reddy 97-99 Importance of Panchagavya in agriculture. 31. Rajendra Mistry and Amita Mishra 101-102 Study of the nutrition and feeding behaviour of the hemipterans on less preferred plant food sources. 32. Minakshi Kumari and Vijay Kumar 103-105 Studies on cyclic changes in biochemical composition in a teleostean fish, Channa gachua (Ham). 33. Rahul Ghritlahre and Lata Sharma 107-110 Aboriginal uses of aromatic plants in tribal areas of Ratanpur region in Bilaspur district (C.G.). 34. Shreyansh Parsai, Kamlesh Choure, Arpit Srivastava, Piyush Kant Rai, Shilpi Singh 111-115 and Vivek Agnihotri Isolation and characterization of thermophilic Bacillus sp. with multiple thermostable enzyme producing potential isolated from the hot springs of Madhya Pradesh. 35. A. K. Toppo, K. R. Sahu and Hemlata Nishad 117-119 Diversity of spider in Achanakmar, wild life sanctuary district Bilaspur (Chhattisgarh). 36. R.M. Khadap 121-122 A new species of the genus *Rhabdocona* Railiet, 1916 (Nematoda: *Rhabdochonidae*) from

39. Rashmi Singh and Shivesh Pratap Singh

Hydrobiology of Domari dam, Beed (M.S.)

A green synthesis of new compounds using water with its biological applications.

Immunomodulator plants: Better to prevent COVID-19 by boosting immunity then cure.

intestine of Labeo rohita.

37. Prashant V Patil

38. M.S. Kadam

129-132

123-124

125-128



### ISSN: 0972-995X (Print), 2321-7960 (Online)

#### Peer Reviewed Research Journal

(Abbreviation : LSB)

Published by: SOCIETY OF LIFE SCIENCES

NAAS Rating: 3.47

#### Volume 17 **June 2020** Number 1



01.	U. C. Srivastava and Sippy Singh Prevention is best escape to COVID-19.	01-04
02.	<b>Devendra K. Soni</b> Regulatory interventions in COVID-19 waste management in India.	05-07
03.	Rashmi Singh and Manoj Tripathi  Documentation and conservation of ethnomedicinal practices in tribal people of Chitrakoot region.	09-20
04.	A. K. Singh  Himalayan fisheries and aquaculture in the era of climate change: Some insight to endeavor our future research.	21-24
05.	Suraj K. Singh, Dilip K. Jha, Narayan Prasad Pandit, Neeta Pradhan and Prem Timalsina	25-32
	Effect of dietary inclusion of stinging nettle ( <i>Urtica parviflora</i> ) on growth and immunological responses of rainbow trout fry.	33-36
06.	Vinay Dwivedi, Shyam Prasad, Santosh Kodgire, Debanjan Sanyal and Santanu Das Gupta  Media optimization for cultivation freshwater microalga <i>Scenedesmus</i> sp. under controlled conditions.	37-42
07.	<b>Jayasree Thilak</b> Studies on the self purification of river Chambal from Nagda industrial area to Gandhisagar dam, Mandsour district Madhya Pradesh.	43-48
08.	Hamida Khanum, Suvra Roy and Rimi Farhana Zaman  New records of Turbellaria, Cestodes, Nematode and Pentastomida from snails in Bangladesh.	49-55
09.	Suresh Kumar and G. Tripathi Impact of different organic food sources on the growth and reproductive performance of composting earthworms <i>Eisenia fetida</i> and <i>Perionyx sansibaricus</i> .	57-62
10.	Rahul Singh Gajendra and Sukrita Tirkey Ethnozoological remedial practices by the Madia tribe and indigenous inhabitants of Dantewada district Chhattisgarh, India.	63-66
11.	Chitralekha Sinha A comparative study of benthic soil at two different sites of Hardia wetland of Saran district of North Bihar, India.	67-70
12.	Nilesh Kumar Singh and S. K. Sinha Impact of open cast coal mining on average decrease of number of soil insects mining areas of Jharia coal field in comparison to non-mining areas of Dhanbad (Jharkhand).	71-74
13.	Rajesh, R. S. Chauhan, Ashutosh Mishra and Priyanka Arya Study on fishing craft and gears operated in Nanak Sagar reservoir, Uttarakhand, India.	75-80
14.	Bushra Naseer, Shailendra Kumar Sinha and Sharmila Kumari  Aquatic weeds, their characteristics and effects on growth of <i>Catla catla</i> Hamilton - A	

review.



### NATIONAL JOURNAL OF LIFE SCIENCES

(Abbreviation: LSB) Published by: SOCIETY OF LIFE SCIENCES NAAS Rating: 3.47

Volume 17 Number 2 December 2020



	CONTENTS	
15.	Raihanul Jannat, Hamida Khanum, Rimi Farhana Zaman, Sharmin Musa, Mandira Mukutmoni and Fahmida Sarker  Enteric parasites with zoonotic importance in jackal ( <i>Canis aureus</i> Linnaeus, 1758).	81-86
16.	<b>Bungdon Shangningam, Laishram Kosygin and Shibananda Rath</b> First report of <i>Psilorhynchus brachyrhynchus</i> from India with a note on fishes on Bulledam stream, Manipur.	87-89
17.	Shreyansh Parsai, Kamlesh Choure, Arpit Srivastava, Piyush Kant Rai, Vivek Agnihotri and Sourabh Singh Gour Lipase producing thermophilic bacteria isolation and characterization from hot springs of Central India.	91-96
18.	<b>Dilip Kumar Rathore, Diksha and Ruchi Sagar</b> Algal diveristy of Khade Ganesh ji temple pond, Kota (Rajasthan).	97-100
19.	<b>Surendra Kumar Bhardwaj and Jitendra Singh Laura</b> Potential use of some traditional plant-exracts as bio-protectant against <i>Xanthomonas citri</i> sub sp. <i>Citri</i> .	101-106
20.	P. C. Bhati Phagodeterrent activity of <i>Prosopis spicigera</i> foliar extract against <i>Callosobruchus chinensis</i> (L.).	107-108
21.	Yurembam Motilan, Rajkumar Radhakrishore and Wairokpam Wangthoinganba Captive breeding of threatened ornamental fish species of Manipur, India.	109-113
22.	Archana Tiwari, Sadhana Chaurasia and Shivesh Pratap Singh Assessment of water quality and fish diversity of Tons river, Satna (M.P.).	115-119
23.	<b>R. M. Khadap</b> Zeylanema sailuensis n.sp. (Camallanidae, Camallaninae, Zeylanema Yeh,1960) from Ophiocephalus striatus (Bloch).	121-122
24.	A.A. Page, D. B. Bhure and S. S. Nanware Prevalence of cestode infection of <i>Capra hircus</i> L. from Latur (M.S.).	123-124



Chief Editor (NJLS & LSB) Dr. Shivesh Pratap Singh

Professor & Head Dptt. of Zoology Govt. P.G. College, Satna (M.P.)

Editor-in-Chief (Newsletter) Dr. Rashmi Singh

Professor & Head Dptt. of Botany Govt. P.G. College, Satna (M.P.)

**Executive Editors** Prof. R. N. Shukla (Njls)

Ex. Vice Chancellor, APS. University, Rewa (M.P.)

Dr. M.G. Ragunathan (LSB) Guru Nanak College,

Chennai (T.N.)

Dr. M.M. Prakash (LSB) Holker Science College, Indore(M.P.)

**Managing Editors** Dr. R.P.S. Dhakarey (Njls)

Retd. Principal. AKS University, Satna (M.P.)

Dr. C.K. Pathak (LSB) Retd. Principal, Govt. College, Nagod, Satna (M.P.)

Dr. Pragya Khanna

Associate Professor, Govt. College For Women, Jammu (J&K)

(SLS Newsletter)

**Business Manager** Akhilesh Gupta Richa Offset Printers, Satna e-Publishers

**Connect Journals** Gaziabad (U.P.)

### Chief Editor Desk...

The National Journal of Life Sciences and Life Science Bulletin publishes reviews on research papers in any area of Life-sciences Although the journal welcomes the paper from any area but the main idea behind its publication is to give opportunity to the young researchers of less developed/less exposed areas. Therefore, under the auspices of the Society for Life Sciences, fellowship/membership/awards are also given to the young researchers to boost their zeal for their quality research works and papers published/presented on National/International platforms.

The main areas in which original and good research papers are invited: 1. Animal Sciences: Including Embryology, Anatomy, Physiology, Biochemistry, Biophysics, Bioengineering, Biotechnology, Molecular and Microzoology, Cytogenetics, Evolution, Ecology, Environmental Zoology, Taxonomical and Behavioural Zoology, Ethnozoology, Physical Anthropology, Statistical Zoology and Nanozoology.

- 2. Agricultural Sciences: Including Agriculture, Agronomy, Horticulture, Agricultural Toxicology, Animal Husbandry, Agricultural Engineering, Fisheries, Forestry, Soil sciences, Plant-regeneration and protection, Post Harvest technology and Agro-statistics.
- 3. Medical and Forensic Sciences: Basic and Clinical Medical Sciences, Pharmacology, Medical Anthropology, Psychology and Cognitive Sciences, Human genetics, Forensic Sciences, Reproductive Biology, Neuro-Sciences, Alternative Medicine, Para-medical Science, Rehabilitation and Trauma Management, Molecular Medicine and Diagnostics, Pathological Sciences.
- 4. Plant Sciences: Including Embryological, Developmental, Morphological, Anatomical, Physiological, Biochemical, Biophysical, Bioengineering, Biotechnological, Molecular and Microbotany, Cytogenetical, Ethno-botanical, Evolutionary, Ecological, Environmental, Taxonomical and Statistical Botany. Parts from aforesaid areas paper of wide interdisciplinary approach are also welcomed. The emphasis must be on innovative research of immediate or long terms impact. Philosophical and hypothetical works may also be published, if having sound base of support from statistically examined postulates with good reasoning and extrapolation of the informations/data available. Even negation of hypothesis/postulates are also worth publishing, but must be evidenced with supported by proved facts/results. Articles on policy research, scientific and technological development issues, scientific and technological management concerned with Life-Sciences invites special attention of our readership; necessary to initiate discussion on relevant and current aspects of science-society interaction. Not only this, the science education and communication are the emerging areas of research, where team view is required to reach a consensus as pragmatic approach to cope up with the many problems of science education could only be evolved through participatory observations and group discussion.

Thus such views/opinions/research results are most welcomed to help the scientific managers/science communicators in developing new methods of spreading science awareness. Articles on new/emerging areas are also of vital importance as they are proved to be the trend setter. Such fields are meditational remedies, Astrology, Cyber sensing, Cyber vision, Health-geography, Chip-therapy and so. Thus we appeal to our viewers and readers to help us in improving the status of publication by contributing their scientifically valuable articles in consonance with the aforesaid objectives, views and motive of publication.

Dr. Shivesh Pratap Singh

