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Year - 2004

SCIENTIST AWARD-2004

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Focused on

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 Journal......National Journal of Life Sciences.

National Seminar on Recent Trends in Interview of the seminar of t

Dr. Rashmi Singh Editor-in-Chief **Dr. K.K. Dube** Executive Editor of this Edition Dr. Pragya Khanna Managing Editor



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The inaugural issue of the National Journal of Life Sciences is dedicated to the

Dr. B.S. Chauhan Ph.D, D.Sc, C.M.Z.S (London), F.A.Sc, F.N.A.Sc, F.Z.S.I Who has rendered his valuable services for Ninety-one years to the development of Zoology in different parts of the country



Volume - 1

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Dr. B.S Chauhan was born on May 2, 1914 in reputed Talukedar family of Hoshangabad, Madhya Pradesh. He had his primary education in the Shiva Primary Pathshala at Narsinghpur. He was a Govt. scholarship holder in High School classes and was recipient of Marrai Slate Scholarship in the College. He passed his M.Sc examination from Nagpur University in 1939, standing first in Zoology in the Nagpur University. He had been King Edward Memorial Research Scholar from 1943 to August 1944 and was awarded Ph.D degree from Nagpur University in 1944 and D.Sc. in 1956. Subjects of special interests in research of Dr. Chauhan have been Parasitology - General Helminthology, Medical and Veterinary, with special reference to Trematodes, Cestodes, Nematodes, Acanthocephala, Temnocephala, Fish parasites & diseases, Fisheries, Systematic Zoology. Zoo-geography, Evolution, Distribution, General Zoology, Wild life fauna, Conservation of natural resources, Ecology & Environmental studies, Pollution and General & University education, etc.

He was the first Indian Scientist to start studies on Monogenetic trematode parasites of Indian Marine fishes from the Bombay coast. The guidelines laid down by him have revolutionized research on human Schistosomiasis in India & resulted in the discovery by him of a new molluscan intermediate host, *Feressia tunis* of the human blood fluke *Schistsoma haematobium*. Similarly he made a singular contribution in the discovery of an intermediate mite hoat *Sclerobates chauhani* named in recognition after him by the famous American Actologist Dr Baker in 1945 in the life history of the broad tape worm *Monazia* sp of goats, sheep and cattle.

Apart from being a well-known Zoologist and a brilliant research worker, he joined the Indian Veterinary Research Institute, Izatnagar in 1945 for a year. He was considered a competent administrator too and was placed in-charge in 1956 by the Ministry of Home affairs, Govt. of India as Liaison Officer, in overall charge of the Hindi teaching scheme to central government employees, at Calcutta center-a national duty, which he discharged with distinction. In fact, Dr. Chauhan has a rare combination of a towering and dynamic personality, a brilliant Zoologist and a fine researcher with international reputation, an educationist, a very capable Technocrat and an able administrator.

Dr. Chauhan was President of the Zoology section of the Indian Science Congress for its Golden Jubilee Session held at Delhi in 1963. He also served the Zoological Survey of India as its Deputy Director and after retirement, joined the University of Saugar (M.P) as its Vice-Chancellor (1973-1975). He was appointed member of Madhya Pradesh Uchcha Shiksha Anudan Ayog, Bhopal (1979-84) and M P State Planning Board (1984-87).

Dr. Chauhan has published more than hundred original papers. Many of them are of monographic nature and are cited as work of reference, for post-graduate studies and research not only in India but outside also. His research work has been quoted in the standard textbooks, books of references and research journals all over the world. A large number of new animals and systematic categories have been named after him, as is the practice among scientists. He has also been and supervisor to many research scholars working for their Ph.D. and D.Sc degrees under him or otherwise. He was awarded Sir Dorab Tata Gold Medal in January 1976 for his outstanding contributions in the field of Zoology. He has also been the recipient of Dr. G.D. Bhalerao Memorial Gold Medal in 1962 for his outstanding researches in Helminthology.

Still in this age of 91 years he is actively associated with Zoological Society of India, Helminthological Society of India and other Learned academic in the globe.

We all wish good heath to the doyen of Indian Parasitologist. Long way be continue to flourish.

Prof. K.C. Pandey

(Ex. Vice-Chancellor) Department of Zoology, Lucknow University, Lucknow (U.P)



SLS e-Newsletter - 2004

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Recent Trends in Life Sciences

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A Seminar on the Recent Trends in

Life Sciences and Annual Session of Society of Life Sciences was jointly organised by the Science Communication Cell of the National Academy of Sciences, India and Society of Life Sciences at Govt. P. G. College, Satna from Sept. 29th to Oct. 1st, 2004. This three days seminar was inaugurated by Prof. S. L. Srivastava, Co-ordinator K. Banerjee Centre of Atmospheric and Ocean Studies, Allahabad University, Allahabad. Besides inaugural and valedictory sessions the seminar was divided into five sessions and covered Biotechnology, Bioinformatics, Bio-modeling, Biodiversity and Role of Remote Sensing in Bio-conservation themes.

MINAR ON RECENT TRENDS IN LIFE SCIENCES

Science Communication Cell The National Academy Sciences Govt. P. G. (Autonomous) College. Satua (M.P.) Society of Life Sciences, Satua (M. P.) Prof. G.L. Tiwari, Prof. U. C. Srivastava and
Prof. D. K. Chauhan (Allahabad), Prof. R. S.
Saini (Sagar) Dr. Sharda Sundaram and Dr. P.
W. Ramteke (Allahabad), Prof. S. P. Bajpai (Sagar), Dr. Ravindra Singh & Dr. S.K.
Chaturvedi (Chitrakoot), Dr. N.P. Tripathi (Rewa), Dr. R.P.S. Dharkarey (Satna) were
the prominent delegates who delivered
lectures on different topics related to above themes.

The valedictory function was held on 1st Oct. 2004 at 3.00 p.m. The chief guest was Prof. Sureshwar Sharma (Ex. Vice-Chancellor, R. D. University, Jabalpur); Prof. A. D. N. Bajpai (Vice Chancellor, A. P. S. University (Rewa) presided over the function. Prof. R. S. Saini (Dr. Hari Singh Gaur University, Sagar) and Prof. G. L. Tiwari (Allahabad University, Allahabad) were the Guests of Honour. Science Communication Cell The National Academy (Science Communication Cell The National Academy (Science Com Govt. P. G. Autonomous) College. Sat na (M. P. Societ of Life Ces. Stra (M. P. Sept 29-30



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Dr. Shivesh Pratap Singh (Chief Editor, National Journal of Life Sciences) and Dr. Rashmi **Singh** presenting a copy of Journal and Life Science Bulletin to Hon'ble Smt. Archana Chitnis, Minister of Higher Education, Govt. of M.P. on the occasion of the Annual function of Govt. P.G. College, Satna M.P. in the presence of Smt. Anju Singh, President, Mahila Finance Development Corporation, Govt. of M.P. & Dr. R.L. Sharma, Principal Govt. P.G. College, Satna (M.P.)

The Inaugural issue of National Journal of Life Sciences Presented to Hon'ble Smt. Archana Chitnis, Minister of Higher Education, Govt. of M.P.





Activities of The Society of Life Sciences



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The Society of Life Sciences, Satna (M.P.) awarded a citation and a cash award to the young research scholar for encouraging their presentations in Seminar "Environmental Pollution and Sustainable Development" organized by Dept. of Zoology, Sri Sathya Sai College for Women, Bhopal (M. P.) on 28th - 29th Oct. 2004. The Chief guest of inaugural function was Dr. Ram Prasad, Vice Chancellor, Barkatullah University, Bhopal (M. P.) and Dr. Santosh Kumar (Ex. Vice Chancellor) presided over the function. In valedictory function Chief guest was Dr. P. S. Dube, Chairman M.P. Pollution Control Board, Bhopal (M.P.) and Dr. Ravi Prakash (Ex. Vice Chancellor) was guest of honour. The Seminar was organized sucessfuly by Dr. Manju Tembhre, Organizing secretary, whereas Dr. S. K. Kulshrestha whole heartly managed the technical sessions.

SLS Young Scientist Awardee - 2004 By The Society of Life Sciences



Ms. Farhina Pasha (Bhopal) Ms. Meeta Mishra (Sagar) Presented her research paper (Oral) "AChE inhibition in muscles of O. mossambicus due to herbicide pursuit."



Presented her research paper (Poster "Chabazite as metal Chelator & Protein stimulator in fish.



View of dais Inaugural function "Seminar on Environmental Pollution and Sustainable Development' at Sri Sathya Sai College for women, Bhopal (M.P.) on 28th-29th Oct. 2004.





. View of dais Valedictory function "Seminar on Environmental Pollution and Sustainable Developmen at Sri Sathya Sai College for women, Bhopal (M.P.) on 28th-29th Oct. 2004.



in National Symposium on Environment (19th-20th Feb. 1994)



Gracious presence of Dr. B.S. Chauhan Patron of The Society of Life Sciences

National Symposium on "Environment" was organized by Govt. P.G. College Satna (M.P) at Town Hall, Satna sponsored by MP Council of Science and Technology, Bhopal & Dept. of Higher Education, Govt. of M.P. on 19-20, Februrary 1994. National Symposium was inaugurated by Chief Guest Dr. B.S.Chauhan, Ex. Vice Chancellor Dr.H.S Gour University, Sagar and Guest of Honour were Prof. J.S. Rathore, Vice Chancellor, A.P.S.University Rewa and Mr. P.K. Das, Collector Satna, Key note speaker was Dr. Ram Prakash (Jalgoan), presided by Dr. S.D. Nigam, Principal Govt. College Satna. More than hundred participants from various part of country were participated in this National Symposium.

The National Journal of Life Sciences is an official publication of the Society of Life Sciences. This Journal publishes original research articles, short communication etc. covering almost all branches of Life Sciences. The periodicity is twice a year *i.e.* in Summer (June) and Winter (December) of every year.



POPULAR ARTICLE

Number 1&2

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Endocrine system is made up of several organs called glands. The glands, located all over the body, create and secrete (release) hormones. Hormones are chemicals that coordinate different functions in our body by carrying messages through blood to organs, skin, muscles and other tissues. These signals tell body what to do and when to do it. Hormones deliver their messages by locking into the cells they are targeting so they can relay the message. Endocrine system continuously monitors the amounts of hormones in our blood.

Hormones affect nearly every process in our body, including:

Metabolism (the way you break down food and get energy from nutrients).

- Growth and development.
- Emotions and mood.
- Fertility and sexual function.
- Sleep.
- Blood pressure.

Sometimes glands produce too much or not enough of a hormone. This imbalance can cause health problems, such as weight gain, high blood pressure and changes in sleep, mood and behavior. Many things can affect how your body creates and releases hormones. Illness, stress and certain medications can cause a hormone imbalance.

The endocrine system is made up of organs called glands. Glands produce and release different hormones that target specific things in the body. We have glands all over our body, including in neck, brain and reproductive organs. Some glands are tiny, about the size of a grain of rice or a pea. The largest gland is the pancreas, which is about 6 inches long.

The main glands that produce hormones include:

Hypothalamus: This gland is located in brain and controls endocrine system. It uses information from nervous system to determine when to tell other glands, including the pituitary gland, to produce hormones. The hypothalamus controls many processes in our body, including mood, hunger and thirst, sleep patterns and sexual function.

Pituitary: This little gland is only about the size of a pea, but it has a big job. It makes hormones that control several other glands such as the thyroid gland, adrenal glands, ovaries and testicles so it is known as 'Master Gland'. The pituitary gland is in charge of many different functions, including how body grows. It's located at the base of brain. The pituitary gland senses when hormone levels rise, and tells other glands to stop producing and releasing hormones. When hormone levels dip below a certain point, the pituitary gland can instruct other glands to produce and release more. This process, called homeostasis, works similarly to the thermostat in our house.

Thyroid: Thyroid is a butterfly-shaped gland in front of neck. It is responsible for metabolism (how the body uses energy).

Parathyroid: These four tiny glands are not larger than a grain of rice. They control the level of calcium in body. For heart, kidneys, bones and nervous system to work, it needs the right amount of calcium.

Adrenal: We have two adrenal glands, one on top of each kidney. They control our metabolism, blood pressure, sexual

Endocrine System

Dr. Manjusha Pouranik P.G. Department of Zoology Mata Gujri Mahila Autonomous Mahavidyalaya, Jabalpur (M.P.) e.mail : drmanjusha123@gmail.com Contact : 9425162955



Pineal: This gland manages sleep cycle by releasing melatonin, a hormone that causes to feel sleepy.

Pancreas: Pancreas is part of endocrine system, and it plays a significant role in digestive system too. It makes a hormone called insulin that controls the level of sugar in our blood.

Ovaries: In women, the ovaries release sex hormones called estrogen, progesterone and testosterone. Women have two ovaries in their lower abdomen, one on either side.

Testes: In men, the testes (testicles) make sperm and release the hormone testosterone. This hormone affects sperm production, muscle strength and sex drive.

Dozens of conditions can cause issues in the endocrine system. These conditions can lead to health problems all over the body. Some of the most common disorders are:

Diabetes: This endocrine disorder affects the way our body uses the energy from the food we eat. Diabetes develops when the pancreas doesn't make enough of a hormone called insulin, or insulin doesn't work as it should.

Thyroid disorders: Several conditions can affect the function of the thyroid gland. Hypothyroidism happens when the thyroid doesn't produce enough hormones. Hyperthyroidism occurs when it creates too many hormones.

Hypogonadism (low testosterone): In men, hypogonadism can cause erectile dysfunction. It can also cause memory and concentration problems, changes in muscle strength and low sex drive. It happens when the testes do not produce enough of the sex hormone testosterone.

Polycystic ovary syndrome (PCOS): A hormonal imbalance causes women with PCOS to have irregular periods, abnormal hair growth, excess acne and weight gain. It can lead to diabetes, increased risk of metabolic syndrome and infertility.

Osteoporosis: When a woman's ovaries don't produce enough estrogen, bones become brittle and weak. Although it is more common in women, men sometimes have osteoporosis when testosterone levels get too low. People with an overactive parathyroid gland (hyperparathyroidism) may also have weak bones.

Chemicals called endocrine disrupters can also affect the endocrine system. These chemicals appear everywhere in pesticides, plastics, cosmetics and even our food and water. Endocrine disrupters cause a wide range of problems throughout the body by changing how hormones send messages.

Our endocrine system needs the same things as the rest of our body needs to stay healthy. We should exercise, eat right and see our healthcare provider regularly.



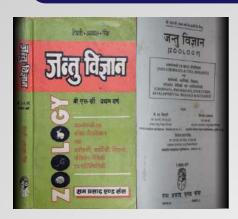
Some **TEXT BOOKS OF ZOOLOGY** (Unified Syllabus of Department Higher Education, Govt. of M.P.)

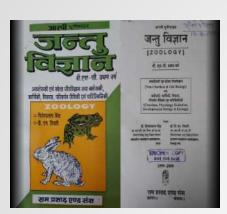
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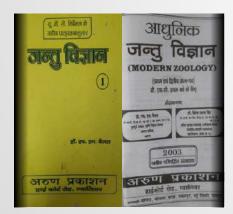
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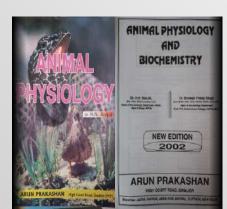
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Text Books written by "Dr. Shivesh Pratap Singh" during 1996-2004 with other co-authors







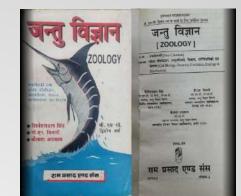


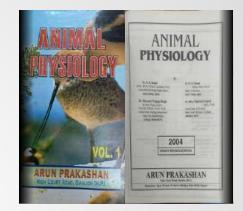


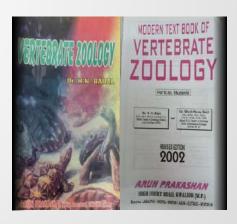
















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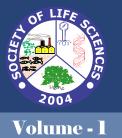
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