



About Me

Dr. Jayant Biswas is a leading speleologist (cave scientist) from the Indian subcontinent. He obtained his Ph.D. degree in Bioscience with a specialization in bio-speleology from Pt. Ravishankar Shukla University, Raipur, India. While Dr. Biswas remains passionate about his research, his current focus is on the protection and conservation of delicate cave environments and their fauna from various anthropogenic activities. Dr. Biswas's effort to protect various wild caves will be always remembered. Further, he has established a Non-Profit Non-Government Organization named the National Cave Research and Protection Organization (Year-2009). This is the only NGO in India working to protect caves from indiscriminate limestone mining and other anthropogenic pressures. Dr. Biswas has also established a full-fledged research laboratory at Raipur, Chhattisgarh, India, and serve as in Editor-in-Chief of "Ambient Science", a journal that publishes papers mainly focused on various environmental issues.

Dr. Biswas maintains active collaboration with colleagues from various national and international institutions and has published papers in tier-one journals from the top most publication houses of the world. Biswas was also a part of international milestone research that led to the identification of the Meghalayan age from a paleoclimatic study based on the cave rock from Mawmluh cave of Meghalaya. His policy paper in 2016 demanding the need for proper cave protection Law in India was considered as Parliament documentation. In recognition of his significant studies on the field of cave science, a new species of cricket identified from a cave in central India was named after him as *Arachnomimus jayanti*.

Jayant Biswas

at a glance

(Special Reference to Cave study)

Contact

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Raipur, Chhattisgarh, India

Academic Qualification

Master: Msc (Zoology)
Doctorate: PhD (Bioscience)

Academic Experiences

Research: More than 30 years
Teaching: Above 10 years

Present Position

Director: National Cave Research
and Protection Organization
Since 2009
Professor: Zoology, ISBM University,
Chhattisgarh, India
Since 2020

Area of Interest

Cave Science, Wildlife Biology, Biodiversity & Conservation, Environmental Ecology, Chronobiology, Geomicrobiology

Website (Official)

<https://caves.res.in/>

Awards:

Young Scientist MPCOST, Bhopal, M.P., India

Honour

Life Time Achievement Award in Cave Research and Heritage protection by Indian Institute of Oriental Heritage, Kolkat, India Year-2010.

Book

Cave Science: Insights from Indian Subcontinent

(The very first book on Subject from India)

Published by: National Cave Research and Protection Organization

Paper Published

Review Articles: 09; Research Articles: 60.

Popular Articles: 10;

- Paper published in SCI Journals: 30
(including in "Nature group of Publication and Science, the AAAS Publications)
- Paper published in Scopus/ WoS indexed Journals: 40
- Invited / Guest Lectures: More than Fifty.
- Invited as Resource person for Academic Staff College:
3 times in 2 different State Government Universities.
- RDC Chairman since year 2017: Dr. C.V. Raman University, Bilaspur, Chhattisgarh.
- Member of Ethical Committee: Pt. Ravishankar Shukla University, Raipur, C.G., India and Government DB College, Raipur, C.G., India.

PhD Scholar Guided

Ph.D. Registered students in hand : Four (4)

Ph.D. Thesis Awarded: Three (3)

Journal Editorial

Journal Name	Publisher
• Ambient Science (Editor in Chief)	National Cave Research and Protection Organization,
• International Journal of Ecosystem (Associate Editor)	Scientific & Academic Publications, USA

Conference Organized

International Colloquium in Ambient Science to Strengthen Green Economy
(as Organizer: 07 June to 10th June, 2018 at Raipur).

Workshop Organized

More than 5 in various Universities.

Reviewer Services

Regular Reviewer for various SCI and other international journals.

Project Handled

Collaborators as co-investigator in two International projects funded by "National Science Foundation", US (Budget in Crores).

Principal Investigator: Patterns of Cave Biodiversity, endemism and its Conservation Strategies in Chhattisgarh, funded by Chhattisgarh Council of Science and Technology.

Membership

Learned Bodies/Networks.

National Level

President/ Director: National cave Research and Protection Organization.
(Research Wing) www.caves.res.in

Life Member Indian Society of Chronobiology
<http://chronobiologyindia.org>

Asian Level

Life Member

Chiroptera Specialist Group of South Asia
<https://www.yumpu.com/en/document/view/36476530/chiroptera-conservation-and-information-network-of-south-asia->

Life Member

IUCN/SSC Reintroduction Specialist Group-South Asia RSG - SA
https://zooreach.org/Networks/RSG/RSG_Directory_27May17.pdf

Achievements

Countries Visited

- i) Rodrigues (mascarene islands) for Research
- ii) Nepal for Research and attending Conference
- iii) Japan for attending Conference.

Notable Publications in National / International Peer-Reviewed Scientific journals

(Full length papers appeared in the proceedings of any Seminar / Conference have not been considered)

Review Articles

- D. Biswas & Biswas J. (2017): Major Deteriorative, Pathogenic and Beneficial Fungi Reported from Various Subterranean Caves of the World: A Mini Review. *International Journal of Ecosystem* 7 (1), 11-16. (ISSN: 2165-8889).
- Biswas J (2014): Occurrence and Distribution of Cave Dwelling Frogs of Peninsular India. *Ambient Science* 1 (2), 17-25 (ISSN: 2398 5191)
- Biswas J. (2010) Kotumsar Cave Biodiversity: A Review on Troglolithic Traits of the existing Cavernicoles. *Biodiversity and Conservation* 19(1) 275-289 (ISSN: 0960-3115; IF=2.365)
- Harries D.B. , Ware F.J., Fischer C.W., Biswas J. & Khapran-Daly B.D. (2008) A Review of the Biospeleology of Meghalaya, India. *Journal of Cave and Karst Studies*, 70(3),163-176. (ISSN:1090-6924; IF= 1.277)

Research Articles

- Li, H., Sinha, A., André, A.A., Spötl, C., Vonhof, H.B., Meunier, A., Kathayat, G., Duan, P., Voarintsoa, N.Y.G., Ning, Y., Biswas, J., Hu, P., Li, X., Sha, L., Zhao, J., Edwards, R.L. & Cheng, H. (2020): A multimillennial climatic context for the megafaunal extinctions in Madagascar and Mascarene Islands. *Science (advances)*. 6(42):eabb2459 (IF=12)
- Li, H., Cheng, H., Sinha, a., Kathayat, G., Spötl, C., André, A. a., Meunier, A., Biswas, J., Duan, P., Ning, Y. & Edwards, R.L. (2018): Hydro-climatic variability in the southwestern Indian Ocean between 6000 and 3000 years ago. *Climate of the Past*. 14(12):1881-1891. (IF=3.638)
- A Sinha, G Kathayat, F Sebastiean, H Cheng, M Mudelsee, M Berkelhammer, M., J Biswas, J. & R L Edward (2015): Trends and oscillations in the Indian summer monsoon rainfall over the last two millennia. *Nature (Communication)*, 6 (ISSN: 2041-1723; IF=11.470)
- Berkelhammer, M., Sinha, A., Mudelsee, M., Cheng, H, Yoshimura, K. and Biswas, J. (2014): On the low frequency component of the ENSO-Indian Monsoon relationship; a paired proxy perspective. *Climate of the Past*. 9, 3103-3123 (ISSN-1814-9324 ; IF= 3.638).
- Biswas, J, Sharma, K, Harris K.K. & Rajput, Y. (2013): Biodeterioration agents: Bacterial and fungal diversity dwelling in or on the pre-historic rock-paints of Kabra-pahad, India. *Iranian Journal of Microbiology* 5(3), 309-314. (ISSN# 2008-3289).
- Ruedi, M., Biswas, J. & Csorba, G. (2012) Bats from the wet: two new species of Tube-nosed bats (Chiroptera: Vespertilionidae) from Meghalaya, India. *Revue Suisse de Zoologie* 119(1): 1-25. (ISSN # 0035-418X; IF= 0.732)
- Biswas J, Shrotriya S., Rajput, Y & Sasmal S (2011) Impacts of Ecotourism on Bat Habitats in Caves of Kanger Valley National Park, India. *Research Journal of Environmental Sciences*. 5(9): 752-762. (ISSN:1819-3412).

Ruggieri, R. & Biswas J. (2011): The Karst Mandhip Khol -Python Caves Complex in the Limestone Lenticular Intercalations of the Metamorphic Chhatrela formation Chhattisgarh, India. *Acta Carsologica*. 40/1, 7-15 (ISSN:0583-6050; IF=0.806).

Sinha A., Berkelhammer M., Stott L., Mudelsee M., Cheng H. & Biswas J (2011) 'The leading mode of Indian Summer Monsoon precipitation variability during the last millennium' *Geophysical Research Letters*. 38: 1-5. (ISSN:0094-8256; IF=4.196)

Biswas J. & Shrotriya S. (2011) Dandak: the mammalian dominated cave ecosystem of India. *International Journal of Subterranean Biology*. 40: 1-7. (ISSN-1768-1448).

Biswas J. (2009) The biodiversity of Krem Mawkhyrdop of Meghalaya, India, on the verge of extinction. *Current Science*, 96(7), 904-910. (ISSN:0011-3891; IF= 0.926)

Biswas J. & Ramteke A. (2008) Timed-feeding synchronizes circadian rhythm in vertical swimming activity in cave loach, *Nemacheilus evezardi*. *Biological Rhythm Research*. Vol. 39(5), 405-412 (ISSN:0929-1016; IF= 0.919)

General Scientific Articles

Biswas J.. (2012) Mystries of Kotumsar: Chhattisgarh's Past revealed, in *Geography and You* (India). 12(72), 52-57. (RNI No. DELENG/2001/5002)

Biswas J., (2016): Caving in. in *Down to Earth*, publisher: Centre fo Science and Environment, New Delhi. India (<http://www.downtoearth.org.in/news/caving-in-52339>).

Book Chapters

Ruedi, M., Biswas J., Chachula, O. and Arbenz, T (2013) Bats of the Jaintia Hills, in: *Cave Pearls of Meghalaya* . publisher: British Cave Research association. p -86-104. (ISBN: 978-3-033-03637-6) (<http://indiancaving.org.uk/wiki/doku.php?id=publication>).

Biswas J. (2022) Biospeleology: Biology of Cave Habitats from India, in: *Cave Science: Insights from the Indian Subcontinent*, pp 53-86. Pub. by: National Cave Research and Protection Organization, India.

Biswas J & Biswas S (2022) Cognizance on the Past, Present and Future of Caves and Cave Tourism in India, in: *Cave Science: Insights from the Indian Subcontinent* pp. 173-196. Pub. by: National Cave Research and Protection Organization, India.