

## **DR.SUMANTA MALICK**

Assistant Professor

M.Sc. (Applied Geology); PhD (Palaeontology)

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### **Overview:**

During my childhood days I had the opportunity to watch the famous movie 'Jurassic Park' by Steven Spielberg. The film was based on recreation of de-extinct dinosaurs by a group of genetic scientists. My passion for the ancient organisms starts from there and ultimately led to carry out my master's degree specialization, PhD thesis in Palaeontology. Although I like all kinds of fossils but I am primarily an invertebrate palaeontologist. My research mainly focuses on biotic interactions among marine molluscs. However, I am also interested in documenting palaeobiogeographic distribution of organisms and evolution. Currently, I am engaged in teaching undergraduate Geology students of Triveni Devi Bhalotia College, Raniganj, West Bengal, India.

### **Date of appointment to the present job:**

19<sup>th</sup> May, 2014

### **Other Academic/ Administrative post:**

- Member of Under Graduate Board of Studies (UG BOS) of **Geology** w.e.f. 07.04.2020
- Assistant Teachers Council Secretary w.e.f. 2021

### **Academic background:**

Ph.D. in Palaeontology, Jadavpur University, Kolkata, 2018

M.Sc. in Applied Geology, Jadavpur University, Kolkata, 2009

B.Sc. in Geology, Durgapur Government College under the University of Burdwan, 2007

### **Information about M Phil/Ph D etc.:**

- Ph.D. Topic:** Predator – Prey interactions across the K – T Boundary mass extinction in Rajahmundry, Andhra Pradesh, India.

### **Area of present academic/ Research interest/Research Projects& Schemes and Collaborations:**

- Research interest:** I am interested in biotic interactions (particularly interactions among marine molluscs for predation and competition), palaeobiogeography and evolution.
- Research projects:** Traces of predation on molluscs from the Middle Cretaceous Uttattur Group of southern India : a spatio-temporal comparison. Funded by **DST-SERB**(Duration: 16.03.2019 – 14.09.2022)
- Collaborations:** Nil

### **Ph.D. Supervision:**

Nil

### **Academic Visit Abroad:**

Nil

### **Publications:**

#### **Full Paper :**

- Mallick, S.,** Bardhan, S. and Das, S. S. Naticid gastropod predation on bivalve assemblages across the K-Pg mass extinction boundary in Rajahmundry, India. *Lethaia*(ISSN/ISBN : 0024-1164) (Under review)
- Mallick, S.** and Mahato, S. 2021. Influence of gastropod shell characteristics on shell occupancy of hermit crabs, a casestudy from the coastal areas of Odisha, India. *Indian Journal of Geosciences*(ISSN/ISBN : 2229-3574), Volume 75 (2), 137 – 146.  
(Weblink: <https://www.gsi.gov.in/webcenter/portal/OCBIS/pageQuickLinks/pageIndianJournal>)
- Mondal, S., Maitra, A., Bose, K., Goswami, P., Bardhan, S., and **Mallick, S.** 2019. Substrate-controlled naticid gastropod drilling predation on recent barnacles from Chandipur, India and its Palaeontological implications. *Historical Biology*. DOI: 10.1080/08912963.2019.1677639  
(Weblink:<https://www.tandfonline.com/doi/abs/10.1080/08912963.2019.1677639>)
- Das, S.S., Saha, S., Bardhan, S., **Mallick, S.**, and Allmon, W. D. 2018. The oldest turritelline gastropods: from the Oxfordian (Upper Jurassic) of Kutch, India. *Journal of Paleontology*. 92 (3), 373 – 387.  
(Web link:<https://bioone.org/journals/journal-of-paleontology/volume-92/issue-3/jpa.2017.89/The-oldest-turritelline-gastropods--from-the-Oxfordian-Upper-Jurassic/10.1017/jpa.2017.89.short>)

- ❑ **Mallick, S.,** Bardhan, S., Paul, S., Goswami, P., and Das, S.S. 2017. Record of naticid predation on scaphopods (Phylum: Mollusca) from the latest Maastrichtian bed of Rajahmundry, India. *Ichnos*. 24 (1), 37 – 50.  
(Web link: <https://www.tandfonline.com/doi/abs/10.1080/10420940.2015.1126584>)
- ❑ Mondal, S., Bardhan, S., **Mallick, S.,** and Roy, A. 2014. Repair scars on *Macra violacea* from the western coast of India: a new classification and a model for describing shell breakage on bivalves. *Palaeontologia Electronica*. 17.3.45A: 1-13.  
(Web link: <https://palaeo-electronica.org/content/2014/990-repair-on-macra-violacea>)
- ❑ **Mallick, S.,** Bardhan, S., Das, S.S., Paul, S., and Goswami, P. 2014. Naticid drilling predation on gastropod assemblages across the K-T boundary in Rajahmundry, India: New evidence for escalation hypothesis. *Palaeogeography Palaeoclimatology Palaeoecology*. 411, 216 – 228  
(Web link: <https://www.sciencedirect.com/science/article/abs/pii/S0031018214003460>)
- ❑ Bardhan, S., **Mallick, S.** and Das, S.S., 2014. Palaeobiogeographic constraints on drilling gastropod predation: a case study from the Miocene Khari Nadi Formation in Kutch, Gujarat. *Journal of the Palaeontological Society of India*. Special publication 5, 205 – 213.  
(Web link: <https://palaeontologicalsociety.in/sep14/special5/special5.pdf>)
- ❑ **Mallick, S.,** Bardhan, S., Paul, S., Mukherjee, S., and Das, S.S., 2013. Intense naticid drilling predation on turritelline gastropods from the K T boundary at Rajahmundry, India. *Palaios*. 28 (9/10), 683 – 696.  
(Web link: <https://www.jstor.org/stable/43683744?seq=1>)
- ❑ Roy, A., Bardhan, S., Das, S., Mondal, S., and **Mallick, S.** 2012. Systematic revision and Palaeobiogeography of *Perisphinctes indogermanus* (Ammonoidea) from the Oxfordian of Kutch, India: Stratigraphic and Evolutionary Implications. *Palaeoworld*. 21 (3–4), 167 – 192.  
(Web link: <https://www.sciencedirect.com/science/article/pii/S1871174X12000583>)
- ❑ Bardhan, S., Dutta, R., Chanda, P., and **Mallick, S.,** 2012. Systematic revision and sexual dimorphism in *Choffatia* (Ammonoidea: Perisphinctoidea) from the Callovian of Kutch, India. *Palaeoworld*. 21 (1), 29 – 49.  
(Web link: <https://www.sciencedirect.com/science/article/pii/S1871174X12000030>)
- ❑ Bardhan, S., Chattopadhyay, D., Mondal, S., Das, S., **Mallick, S.,** Roy, A., and Chanda, P. 2012. Record of intense predatory drilling from Upper Jurassic bivalves of Kutch, India: Implications for the history of biotic interaction. *Palaeogeography Palaeoclimatology Palaeoecology*. 317–318, 153 – 161.  
(Web link: <https://www.sciencedirect.com/science/article/abs/pii/S0031018212000211>)
- ❑ Bardhan, S., Ghosh, T., Mondal, S., Roy, A., and **Mallick, S.** 2011. The Holocene Sea level Changes as evidenced from Palaeontological proxy data: a case study from *Glaucanome sculpta* (Bivalvia) along the eastern coast of India. *Palaeoworld*. 20, 92 – 97.  
(Web link: <https://www.sciencedirect.com/science/article/pii/S1871174X10000454>)
- ❑ Mondal, S., Das, S., **Mallick, S.,** and Adhikary, D. 2009. Miocene shark teeth assemblages and ancillary fish taxa from Baripada, Orissa: Taxonomic revision and Palaeobiogeographic overview. *Journal of the Palaeontological Society of India*. 54 (2), 135 – 152.  
(Web link: <https://palaeontologicalsociety.in/publication.php>)

#### Abstract :

- ❑ **Mallick, S.** 2022. Record of predatory activity on the oysters from the Karai Formation (Uttattur Group) of South India. XXVIII Indian Colloquium on Micropaleontology and Stratigraphy, Savitribai Phule Pune University, Pune. p. 93.
- ❑ **Mallick, S.** and Kundu, M. 2020. Repaired injuries and gastropod shell forms: a case study from the coastal area of Chandipur, Odisha, India. National Seminar on Animal Research Today: Basic and Applied Arena, Midnapore College, West Bengal. p. 34.
- ❑ **Mallick, S.,** Das, S. S. and Bardhan, S. 2017. Mass extinction of the molluscan community at the K-T boundary in Rajahmundry, Andhra Pradesh, India. National Seminar on Deccan Volcanism and Biotic Events across the K/T Boundary and Annual General Meeting (AGM) of Geological Society of India, p. 50 – 51.
- ❑ Nandi, B and **Mallick, S.** 2017. Longest Ocypoda crab burrow and its ecological significance from Chandipur coast, Odisha. National Seminar on Exploring The Modern Approach in Biological Science: From Genome to Organism, Department of Zoology, Sidho-Kanho-Birsha University, Purulia, West Bengal. p. 33.
- ❑ **Mallick, S.,** Guha, M. and Das, S. S. 2017. Diversity of bivalves from the Intertrappean bed (Early Danian) of Rajahmundry, Andhra Pradesh. National Seminar on Exploring The Modern Approach in Biological Science: From Genome to Organism, Department of Zoology, Sidho-Kanho-Birsha University, Purulia, West Bengal. p. 45.

- ❑ Saha, S., Mondal, S., Bardhan, S., **Mallick, S.**, Pahari, A., Sarkar, D., Buragohain, D., Das, A., Goswami, P. and Dutta, R. 2016. Predator-prey interaction on the Molluscan assemblage from Chandipur-on-Sea, Odisha. The National Geo-Research Scholars Meet (NGEOSM), Wadia Institute of Himalayan Geology, Dehradun, India. p. 80.
- ❑ Goswami, P., Paul, S., Bardhan, S., Das, S. S., **Mallick, S.** and Buragohain, D. 2015. Unveiling the Lower Miocene gastropod diversity trend of Kutch, India. Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p. 337.
- ❑ Goswami, P., Das, S. S., Bardhan, S., **Mallick, S.** and Paul, S. 2015. Drilling gastropod predation on the lower Miocene gastropod assemblages from Kutch. Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p. 426.
- ❑ Das, S. S., **Mallick, S.**, Bandyopadhyay, A., Pal, S., Roy, A. and Bardhan, S. 2013. New records of Uhligites and Kosmoceratid ammonites from the Spiti Shale in Spiti Himalaya. XXIV Indian Colloquium on Micropaleontology and Stratigraphy, Wadia Institute of Himalayan Geology, Dehradun. p. 17 – 18.
- ❑ **Mallick, S.**, Das, S. S., Bardhan, S. and Goswami, P. 2013. New gastropod assemblage from the latest Cretaceous Infratrappean bed of Rajahmundry. XXIV Indian Colloquium on Micropaleontology and Stratigraphy, Wadia Institute of Himalayan Geology, Dehradun. p. 69 – 70.
- ❑ **Mallick, S.**, Bardhan, S., Goswami, P. and Das, S. S. 2013. Record of Naticid predation on scaphopods (Phylum: Mollusca) from the Latest Maastrichtian Infratrappean bed of Rajahmundry, India. XXIV Indian Colloquium on Micropaleontology and Stratigraphy, Wadia Institute of Himalayan Geology, Dehradun. p. 70 – 71.
- ❑ **Mallick, S.**, Das, S. S., Goswami, P., Paul, S. and Bardhan, S. 2013. Cannibalism in naticid gastropods a study of marine palaeoecology during the Cretaceous in Rajahmundry, A.P. Modern Geological and Geophysical methods and their applications, Department of Geological Sciences, Jadavpur University. p. 6 – 7.
- ❑ Paul, S., **Mallick, S.**, Bardhan, S., Das, S.S. and Goswami, P. 2013. Naticid drilling predation on gastropod assemblage during the latest Maastrichtian in Rajahmundry India. Geological Society of America Abstracts with Programs, Vol. 45, No. 7, p. 315.
- ❑ Das, S. S., **Mallick, S.** and Mondal, S. 2012. Record of naticid like gastropod genera from Jurassic of Kutch: implications for paleoecological significance. National Level Field based workshop on Geology of Kachchh basin, western India: Present status and future perspectives. Department of Earth and Environmental Science, Kachchh University, Bhuj, Gujarat, p. 28 – 29.
- ❑ Bardhan, S., **Mallick, S.**, Das, S. S., Mondal, S. and Dutta, R. 2012. Oldest naticid (Gastropoda) predation from the Oxfordian (Upper Jurassic) of Kutch, Gujarat and its Palaeoecological significance. National Conference on Sustainable Development through Innovative Research in Science and Technology, Jadavpur University, Kolkata, India. p. 117 – 118.
- ❑ **Mallick, S.**, Bardhan, S., Goswami, P. and Paul, S. 2012. Naticid drilling predation on cerithid gastropods from below the K –T boundary in Rajahmundry, Andhra Pradesh. National Conference on Sustainable Development through Innovative Research in Science and Technology, Jadavpur University, Kolkata, India. p. 121 – 122.
- ❑ Bardhan, S., Das, S. S., **Mallick, S.**, Mondal, S. and Dutta, R. 2012. The record of oldest naticid gastropod from the Oxfordian (Upper Jurassic) of Kutch, India: Palaeoecological implications. Geological Society of America Abstracts with Programs. Vol. 44, No. 7, p. 88.
- ❑ **Mallick, S.**, Bardhan, S., Paul, S., Mukherjee, S. and Das, S.S. 2012. Intense naticid drilling predation on turritelline gastropods from the Latest Cretaceous India. Geological Society of America Abstracts with Programs. Vol. 44, No. 7, p. 270.
- ❑ Chattopadhyay, D., Sarkar, D., Bardhan, S., **Mallick, S.** and Das, S. 2011. A record of drilling predation and other biotic traces from larger benthic foraminifera of Eocene strata of Kutch, Western India. Jahrestagung der Paläontologischen Gesellschaft. Vol. 32, p. 48.
- ❑ Chanda, P., Dutta, R., **Mallick, S.** and Bardhan, S. 2011. Systematics and sexual dimorphism of the genus Choffatia from the Callovian of Kutch, western India. National Conference on Stratigraphy, Palaeontology & Palaeoenvironment. Department of Geology, University of Rajasthan, Jaipur, p. 4.
- ❑ Mondal, S., Adhikary, D., Das, S. and **Mallick, S.** 2007. Coastal zone development during the Miocene: A case study from Shark teeth bearing horizon in Baripada, Orissa. National Seminar on Coastal Zone Development Vis-à-vis Marine Environment: The Recent Trends. West Bengal Academy of Science and Technology, p. 35 – 36.

#### Books and Chapters:

- ❑ FOR BOOKS: Nil

- ❑ FOR CHAPTERS: **Mallick S., (2018)**. Mass Extinction, climate change and the present-day crisis. Ghoshal, A. (Ed.), The Climate on the Edge-A Collection of Evidences, Impacts and Trends (pp# 65-66). Publisher – TristoopProkashani, Durgapur-16.

#### **Seminars, Webinars and Conferences attended:**

- ❑ Mallick S. "Living on the Edge with COVID-19." Participation at Triveni Devi Bhalotia College, Raniganj, West Bengal, India. June 4, 2020.
- ❑ Mallick S. "National Seminar on Animal Research Today: Basic and Applied Arena". Participation at Midnapore College, West Bengal, India. March 13-14, 2020.
- ❑ Mallick S. "One day National Workshop on Choice Based Credit System". Participation at Triveni Devi Bhalotia College, Raniganj, West Bengal, India. May 27, 2016.
- ❑ Mallick S. "One day Workshop on Preparation of SSR and different aspects of NAAC accreditation". Participation at Triveni Devi Bhalotia College, Raniganj, West Bengal, India. March 3, 2015.
- ❑ Mallick S. "One day Seminar on Procedures of Career Advancement Scheme". Participation at Triveni Devi Bhalotia College, Raniganj, West Bengal, India. May 24, 2014.
- ❑ Mallick S. "IGU National Workshop on Modern Geological and Geophysical Methods and their Applications". Participation at Jadavpur University, Kolkata, India. November 28-29, 2013
- ❑ Mallick S. "24<sup>th</sup> Indian Colloquium on Micropaleontology and Stratigraphy". Participation at Wadia Institute of Himalayan Geology, Dehradun, India. November 18-20, 2013.
- ❑ Mallick S. "National Conference on Sustainable Development through Innovative Research in Science and Technology". Participation at Jadavpur University, Kolkata, India. September 28-29, 2012.
- ❑ Mallick S. "National Conference on Stratigraphy, Palaeontology & Palaeoenvironment". Participation at Department of Geology, University of Rajasthan, Jaipur, India. February 3-5, 2011.
- ❑ Mallick S. "National Seminar on Coastal Zone Development Vis-à-vis Marine Environment: The Recent Trends". Participation at West Bengal Academy of Science and Technology, Kolkata, India. November 15-16, 2007
- ❑ Mallick S. "National Seminar on Precambrian Life: Indian Scenario". Participation at Department of Geology, Durgapur Government College, West Bengal, India. August 23-24, 2006.

#### **Conference/ Seminar Organised**

Nil

#### **Life Membership**

Life Member of the "**The Palaeontological Society of India**".

#### **Awards:**

- ❑ Nil

#### **Others/ Miscellaneous:**

- ❑ **Reviewer** of the International journal "**Palaeontology**", "**Zoological Journal of the Linnean Society**".
  - ❑ Qualified **NATIONAL ELIGIBILITY TEST (NET)** – 2008, conducted by Council of Scientific and Industrial Research (CSIR) for award of **JUNIOR RESEARCH FELLOWSHIP**.
  - ❑ Senior Research Fellow (sponsored by UGC), at the Dept. of Geological Sciences, Jadavpur University, 2011-2014
  - ❑ Junior Research Fellow (sponsored by UGC), at the Dept. of Geological Sciences, Jadavpur University, 2009-2011.
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