

1.Name: Rajendra Singh Rana
2.Father's Name: Late Shri Sher Singh Rana
3.Date of Birth: 20th April 1959
4.Correspondence: Prof. R. S. Rana,
Department of Geology
HNB Garhwal University,
Srinagar (Garhwal), Uttarakhand
rajendra.rana1@gmail.com
Mob. No. 09412079723



5. Positions held:

- a). **Pool Scientist:** C.S.I.R., New Delhi, at Deptt. of Geology, Kumaun University, Nainital from 1987 to 1990.
- b). **Assistant Director:** Min. H.R.D., Deptt. of Education, Govt. of India, New Delhi, from 1990-1993.
- c). **Reader:** Deptt. of Geology, HNB GU. Srinagar (Garhwal), from August 1993 to August 2001.
- d). **Professor:** Deptt. of Geology, HNB GU. Srinagar (Garhwal), from August 2001 to the present.
- e). **Head of Department:** January 15 2012 to 14th January 2015
- f). **Dean, School of Earth Science:** 01 October 2020 to Present
6. **Abroad Visit:** 1. Visiting Scientist at the University of Montpellier and Univ. Paris VI, France from June 1986 to June 1987.
2. Visiting Scientist at Royal Belgian Institute of Natural Science, Brussels, Belgium, April 2005, Sept. 2006, 2008, 2012, 2014, June 2017 and September 2019.
7. **Research Experience:** 37 years
8. **Teaching Experience:** 31 years
9. **Ph.D. produced:** 06; 3 are working
10. **Field of specialization:** Palaeobiology
11. **Research Publications:** 83 (38 National, 45 International)
11. **Book (edited):** 2
 1. Definitional Dictionary of Petrology (in Hindi).
 2. A Glossary of Pan-Indian terminology.
12. **Monograph:** 1
13. **Project Sanctioned:** 02 (DST, one returned to DST)

Monograph:

1. Rose, K. D., Holbrook, L.T., K.umar, K., **Rana, R. S.**, Ahrens, H.E., Dunn, R. H., Folie, A., Jones, K. and Smith, T. 2020. Anatomy, Relationships, and Paleobiology of *Cambaytherium* (Mammalia,

Perissodactylamorpha, Anthracobunia) from the early Eocene of western India. *Jour. Vert. Paleont.* (Memoir 20), 39, Suppl 1:1-147.

List of Publications

1. Sahni, A., Kumar, K, and **Rana, R. S.** 1982. On the occurrence of a Pleistocene ossiferous gravel at Nagpur, Central India. *Curr. Sci.* 51 :610.
2. Sahni, A., **Rana, R. S.**, Kumar, K. and Loyal R. S. 1984. New Stratigraphic nomenclature for the Intertrappean beds of Nagpur region, India. *Jour. Geosci.* 1: 55-58.
3. Sahni, A., **Rana, R. S.** and Prasad, G.V.R. 1984. SEM studies of thin egg shell fragments from the Intertrappean (Cretaceous-Tertiary transition) beds of Nagpur and Asifabad, peninsular India. *Jour. Palaeont. Sco. India.* 29: 26-33.
4. Bhatia, S.B. and **Rana, R. S.** 1985. Palaeogeographic implications of the Charophyta and ostracoda of the Intertrappean beds of peninsular India. *Mem. Soc. Geol. France, N.S. no. 147* : 29-35.
5. Gayet, M., Rage, J.C. and **Rana, R. S.** 1985. New ichthyofauna and herpetofauna from Gitti Khadan, the oldest known locality (Cretaceous/Palaeocene) with microvertebrate from the Deccan (India) : Palaeogeographic inference. *Mem. Soc. Geol. France, N.S. no. 147* : 55-65.
6. Sahni, A., Prasad, G.V.R. and **Rana, R. S.** 1986. New palaeontological evidence for the age and initiation of the Deccan volcanics, Central peninsular India. *Gond. Geol. Mag.* 1 ; 13-25.
7. Basse, J., Buffetaut, E., Cappetta, H., Courtillot, V., Jaeger, J.J., Montigny, R., **Rana, R. S.**, Sahni, A., Vandamme, D. and Vianey-Liaud, M. 1986. The Deccan traps (India) and Cretaceous-Tertiary boundary events. *Lect. Notes Earth Plat. Sci.*, 8: 365-370.
8. Sahni, A., Jaeger, J.J., **Rana, R. S.** and Prasad, G.V.R. 1986. Takli Formation and coeval Deccan Intertrappean are they Cretaceous or Palaeocene ? . *B.S.I.P. Symp.*, 28-33.
9. Sahni, A., **Rana, R. S.** and Prasad, G.V.R. 1987. New evidence for the palaeogeographic intercontinental Gondwana relationships based on Late Cretaceous-Earliest Palaeocene coastal fauna from the peninsular India. *Amm. Geophy. Union, USA*, 41 : 207-218.
10. **Rana, R. S.** 1987. Dyrosaurid crocodile (Mesosuchia) from the Infratrappean beds of Vikarabad, Hyderabad District, Andhra Pradesh. *Curr. Sci.* 56 (11) : 532-534.
11. **Rana, R. S.** 1988. Freshwater fish otoliths from the Deccan trap associated sedimentary (Cretaceous-Tertiary transition) beds of Rangapur, Hyderabad District, Andhra Pradesh, India. *Geobios, France*, 21 (4) : 465-493.
12. **Rana, R. S.** and Sahni, A. 1989. Fish otoliths from the Takli Formation (Intertrappean beds) of Nagpur, India. *Jour. Geosci.*, 10 : 145-164.

13. Bhatia, S. B., Riveline, J and **Rana, R. S.** 1990. Charophyta from the Deccan Intertrappean beds near Rangapur, Andhra Pradesh, India. *Palaeobot.*, 37 : 316-323.
14. **Rana, R. S.** 1990. Alligatorine teeth from the Deccan Intertrappean (Cretaceous-Tertiary transition) beds of peninsular India: Further evidence for Laurasiatic elements. *Curr. Sci.*, 59 (1): 49-51.
15. **Rana, R. S.** 1990. Palaeontology and palaeoecology of the Intertrappean (Cretaceous-Tertiary transition) beds of peninsular India. *Jour. Palaeont. Soc. India*, 35 : 105-120.
16. **Rana, R. S.** and Kumar, K. 1990. Late Cretaceous-Early Tertiary fish assemblage from peninsular India and Himalayan regions: comments on phylogeny and palaeogeography. *In Sahni, A. & Jolly (Eds):* 55-57.
17. Bhatia, S. B., Prasad, G.V.R. and **Rana, R. S.** 1990. Deccan Volcanism, a Late Cretaceous events: conclusive evidence of ostracodes. *In Sahni, A. and Jolly (eds.):* 47-49.
18. **Rana, R. S.** 1991. Javalamukhi uadgar aur vayapak vilopan. *Vijana Garima Sindhu*, 10 ; 44 - 49.
19. **Rana, R. S.** 1996. Additional fish otoliths from the Deccan trap associated sedimentary beds exposed near Rangapur, Rangareddi District, Andhra Pradesh, India. *Contrib. XV, Indian Collq. Micropal. Strat., Dehra Dun*, 477-491.
20. Bhatia, S. B., Prasad, G.V.R. and **Rana, R. S.** 1996. Maastrichtian non-marine ostracodes from peninsular India, palaeogeography and age implications. *Mem. Geol. Soc. India*, 37 : 297-311.
21. Nigam, R., John, S. and **Rana, R. S.** 1999. Distribution of otoliths in continental shelf and slope surficial sediments off Saurashtra, Arabian Sea, India. *Proc. Int. on Shoreline Comm.* 120- 126.
22. **Rana, R. S.** and Sati, K. K. 2000. Late Cretaceous-Early Tertiary crocodylians from the Deccan associated sedimentary beds of Peninsular India. *Jour. Palaeont. Soc. India*, 45: 123-136.
23. **Rana, R. S.** and Sati, K.K. 2000. Isolated teeth of dinosaurs from the Deccan associated sedimentary sequences of peninsular India. *Quart. Jour. Geol. Assoc. Res. Cent. Bala Ghat.* 8: 78-98.
24. **Rana, R. S.** and Wilson, G.P. 2003. Late Cretaceous mammals from the Intertrappean beds of Rangapur, India and paleobiogeographic framework. *Acta Palaeontol. Polandica*, 48(3): 331-348,
25. Khosla, A., Kapoor, V.V., Sereno, P.C., Wilson, J. A., Wilson, G.P., Dutheil, D., Sahni, A., Singh, M.P., Kumar, S. and **Rana, R. S.** 2003. First dinosaur remains from the Cenomanian-Turonian Nimar Sandstone (Bagh Beds), District Dhar, Madhya Pradesh, India. *Jour. Paleont. Soc. India*, 48: 115-127.
26. **Rana, R.S.**, Kumar, K. and Hukam Singh 2004. Lower vertebrates from subsurface Cambay Shale (Lower Eocene), Vastan lignite mine, Gujarat, India. *Curr. Sci.*, 87: 1726-1733.
27. Sahni, A., **Rana, R.S.**, Loyal, R.S., Sarswati, P.K., Mathur, S.K., Rose, K.D., Tripathi, S.K.M. and Garg, R. 2004. Western margin Palaeocene-Lower

Eocene lignites: *Biostratigraphic and palaeoecological constraints. 2nd APG Conf.*, 1-8.

28. **Rana, R. S.** 2005. Late Cretaceous-Early Tertiary lizards fauna from the Intertrappean beds peninsular India. *Gond. Geol. Magz.*, 8: 123-132.
29. **Rana, R.S.**, Kumar, K. and Hukam Singh 2005. Lower vertebrate from the Late Palaeocene –Earliest Eocene Akli Formation, Giral lignite mine, Barmer District, Western India. *Curr. Sci.*, 89 (9): 1606 -1612.
30. **Rana, R.S.**, Singh, H., Sahni, A., Rose, K.D. and Sarswati 2005. Early Eocene chiropterans from a new mammalian assemblage (Vastan lignite mine, Gujarat, western peninsular margin):oldest known bats from Asia. *Jour. Paleont. Soc. India*, 50(1): 93-100.
31. Alimohammadian, H., Sahni, A., Patnaik, R., **Rana, R.S.** and Singh, H. 2005. First record of an exceptionally diverse and well preserved amber-embedded biota from Lower Eocene (~ 52 Ma) lignite (Vastan, Gujarat). *Curr. Sci.*, 89 (8): 1328-1330.
32. Bhandari, A., Hukam Singh and **Rana, R.S.** 2005. A note on occurrence of ostracodes from the Vastan lignite mine, Gujarat. *Jour. Paleont. Soc. India*, 50(1): 141-146.
33. Kumar, K., **Rana, R. S.** And Paliwal, B. S. 2005. Osteoglossid and Lepisosteid fish remains from the Paleocene Plana Formation, Rajasthan, India. *Paleontology, London*,48(6): 1187-1209.
34. Rose, K.D., Smith, T., **Rana, R.S.**, Sahni, A., Singh, H., Missiaen, P. and Folie, A., 2006. Early Eocene (Ypressian) continental vertebrate assemblage from India, with description of new anthracobunid (mammalian, tethytheria). *Jour. Vert. Palaeont. U.S.A.*, 26(1): 219-225.
35. **Rana, R.S.**, Kumar K., Sahni, A., Loyal, R.S., Kenneth, D. Rose, Mussell, J., Hukam Singh, and Kulshreshtha, S.K. 2006. Selachian fauna from the Kapurdi Formation (Fuller's Earth), Barmer District Rajasthan, India. *Jour. Geol. Soc. India*, 67: 509-522.
36. Nolf, D., **Rana, R.S.** and Singh, H. 2006. Fish otoliths from the Ypresian (early Eocene) of Vastan, Gujarat, India. *Bull. Inst. R. Sci., Natu. Belgium, Sci. De La Terre*, 76: 105-118.
37. **Rana, R.S.**, Kumar K. and Hukam Singh 2006. Palaeocene vertebrate fauna from the Fatehgarh Formation of Barmer District, Rajasthan, Western India. *XIX Indian Colloq. Micropaleont. Strat. (Shina, ed.)*, 113-130.
38. Sahni, A., Sarswati, P.K., **Rana, R.S.**, Kumar, K., Singh, H., Alimohammadian, H, Sahni, N., Rose, K.D., Smith, T. and Singh, L. 2006. Temporal constraints and depositional palaeoenvironments of the Vastan lignite sequence, Gujarat: analogy for the Cambay Shale hydrocarbon source rock. In. *Jour. Petro. Geol.* 15(1); 1-20
39. Mayer, G., **Rana, R.S.**, Sahni, A. and Smith, T. 2007. Oldest fossil avian from the Indian subcontinental plate. *Curr. Sci.*, 92(9): 1266-1269.
40. Kumar, K., **Rana, R.S.** and Singh, H. 2007. The fishes of the Khuiala Formation (EarlyEocene) of the Jaisalmerbasin, Western, Rajasthan, India. *Curr. Sci.* 93(4):553-559.

41. Smith, T., **Rana, R.S.**, Pieter, M., Rose, K.D., Sahni, A., Singh H. and Lachham Singh. 2007. Highest diversity of earliest bats in the early Eocene of India. *Naturwissenschaften Germany*, 94:1003-1009.
42. Rose, K.D., **Rana, R.S.**, Sahni, A. and Smith, T. 2007. A new adapoid primate from the early Eocene of India. *Cont. Mus. Paleont. Univ. Michigan, USA*, 31(14): 379-385.
43. **Rana, R.S.**, Kumar, K., Escarguel, G., Sahni, A., Rose, K.D., Smith, T., Lachham Singh and Singh H. 2008. Ailuravine rodents (Mammalia) from the lower Eocene lignites of western India: palaeobiogeographic implications. *Acta Palaeontol. Polonica*, 53 (1):1-14.
44. Rose, K.D., DeLeon. V.B., Missiaen, P., **Rana, R.S.**, Sahni, A., Singh, L. and Smith, T. 2008. Early Eocene lagomorph (Mammalia) from western India and the early diversification of Lagomorpha. *Proc. Royal Soc. London B*, 275: 1203-1208.
45. Rage, J.C., Folie, A., **Rana, R.S.**, Singh H., Rose, K.D. and Smith, T. 2008. A diverse snake fauna from the early Eocene of Vastan lignite mine, Gujarat, India. *Acta Palaeontol. Polonica*, 53(2):391-403.
46. Nolf, D., **Rana, R.S.** and Prasad, G.V.R. 2008. Late Cretaceous (Maastrichtian) fish otoliths from the Deccan Intertrappean Bas, India: A review. *Bull. Inst. R. Sci., Natu. Belgium, Sci. De La Terre*, 78: 239-259.
47. Srivastava, D.K., **Rana, R.S.** and Singh, H. 2008. Record of *Megapneustes Gauthier* (brissid echinoid) from the Khuiala Formation, Jaisalmer District, Rajasthan, India. *Jour. Palaeont. Sco. India*, 53(1): 31-36.
48. Rose, K.D., **Rana, R.S.**, Sahni, A., Kumar, K., Singh, L. and Smith, T. 2009. First Tilodont from India: Additional evidence for an early Eocene faunal connection between Europe and India. *Acta Palaeontol. Polonica*, 54 (3):351-355.
49. Rose, K.D., **Rana, R.S.**, Sahni, A., Kumar, K., Missiean, P., Singh, L. and Smith, T., 2009. Early Eocene Primate from Gujarat, India. *Jour. Human Evolution, U.S.A.*, 56: 366-404.
50. Taverne, L., Kumar, K. and **Rana, R.S.** 2009. Compliment to the study of the Indian Palaeocene osteoglossid fish genus *Taverneichthys* (Teleostei-Osteoglossomorpha). *Bull. Inst. R. Sci., Natu. Belgium, Sci. De La Terre*, 79: 155-160.
51. Mayr, G., **Rana, R.S.**, Rose, K.D., Sahni, A., Kumar K., Singh, L. and Smith, T. 2010. Stem group representatives of the Psittaciformes (parrots) from the early Eocene of India. *Jour. Vert. Paleont. U.S.A.* 30 (2): 467-478
52. Kumar, K., Rose, K. D., **Rana, R.S.**, Sahni, A., Singh, L. and Smith, T. 2010. Early Eocene Artiodactyls (Mammalia) from India. *Jour. Vert. Paleont., U.S.A.*, 30(4): 1245-1274.
53. Singh H., Prasad, M., Kumar, K., **Rana, R.S.** and Singh, S.K. 2010. Fossil fruit from early Eocene Vastan lignite, Gujarat, India: taphonomic and phytogeographic implications. *Curr. Sci.* 98(12):1625-1632.
54. Rust, J., Singh, H., **Rana, R.S.**, Tom, Mc., Singh, H., Anderson, K., Sarkar, N., Nascimbene, P.C. Stebner, F., Thomas, J.C., Kraemer, M.S.,

- William, C.J., Engel, M.S., Sahni, A. and Grimaldi, D. 2010. Biogeographic and evolutionary implications of diverse paleobiota in amber from the early Eocene of India. *Proc. Nat. Acad. Sci., USA*, 107 (43): 18360-18365.
55. Beimforde, C., Schafer, N., Dorfelt, H., Nascimbene, P.C. Singh, H., Heinrichs, J., Joachim Reitner, J., **Rana, R.S.** and Schmidt, A.R. 2011. Ectomycorrhizas from lower Eocene angiosperm forest. *New Phytologist*, 192:988-996.
56. Kumar, K., Singh H. and **Rana, R.S.** 2011. Ichnospecies Teredolites longissimus and Teredinid Body fossils from early Eocene of India. *Ichnos*, 18(2): 57-71.
57. Folie, A., **Rana, R.S.**, Rose, K.D., Sahni, A., Kumar, K., Singh, L. and Smith, T. 2013. Early Eocene frogs from Vastan lignite mine, Gujarat, India. *Acta Paleont. Polonica*, 58(3): 511-524.
58. Rao, M.R., Sahni, A., **Rana, R.S.** and Verma, P. 2013. Palynostratigraphy and depositional environment of Vastan Lignite Mine (Early Eocene), Gujarat, western India. *Jour. Earth Syst. Sci.*, 122(2): 289-307.
59. Rose, K.D., Kumar, K., **Rana, R.S.**, Sahni, A. and Smith, T. 2013. New Hypsodont Tillodont (Mammal-Tilodontia) from early Eocene of India. *Jour. Palaeont.* 87(5): 842-853.
60. **Rana, R.S.**, Auge, M., Folie, A., Rose, K.D., Kumar, K., Singh, L., Sahni, A., and Smith T., 2013. High diversity of acrodontan lizards in the early Eocene Vastan lignite mine of India. *Geol. Belgica*, 16(4): 290-301.
61. Mayr, G., **Rana, R.S.**, Rose, K.D., Sahni, A., Kumar, K. and Smith, T. 2013. New specimens of the early Eocene bird *Vastanavis* and the interrelationship of stem group Psittaciformes1. *Paleontology Journal*, 47(11): 1308-1314.
62. Rose, K.D., Holbrook, L.T., **Rana, R.S.**, Jones, K.E., Kumar, K., Ahrens, H.E., Missiean, P., Sahni, A. and Smith, T. 2014. Early Eocene Fossils suggest that mammalian order Perissodactyla originated in India. ***Nature communication*** 5:5570 doi: 10, 1038/ncomms6570(2014).
63. **Rana, R.S.**, Kumar, K., Zack, S.P., Sole, F., Rose, K.D., Missiean, P., Singh, L., Sahni, A., and Smith T. 2015. Craniodental and postcranial morphology of *Indohyaenodon raoi* from the early Eocene of India, and its implications for ecology, phylogeny, and biogeography of hyaenodontid mammals. *Jour. Vert. Palaeont.* E-965308:1-22.
64. Smith, T., Sole, F., **Rana, R.S.**, Kumar, K., Sahni, A. and Rose, K.D. 2015. First early Eocene Tapiroid from India and its implications for the palaeobiogeographic origin of Perissodactyls. *Palaeovertebrata*, 39(2)-e5:1-9.
65. Smith, T., Kumar, K., **Rana, R.S.**, Folie, A., Sole, F., Noiret, C., Steeman, T., Sahni, A. and Rose K.D. 2016. New early Eocene vertebrate assemblage from western India reveals a mixed European and Gondwana affinities. *Geoscience Frontiers*, 7:969-1001.

66. Dunn, R.H., Rose, K.D., **Rana, R.S.**, Kumar, K., Sahni, A. and Smith T., 2016. New euprimate postcrania from the early Eocene of Gujarat, India, and the strepsirrhine-haplorhine divergence, *Jour. Hum. Evol.* 99: 25-51.
67. Sensarma, S., Singh, H., Sahni, A and **Rana, R. S.** 2017. Nature and Composition of interbedded marine basaltic pmice in the ~52-50 Ma Vastan lignite sequence, western India: Implication for early Eocene MORB volcanism offshore Arabian Sea. *Jour. Earth Syst. Sci.* 1-19.
68. Singh, L., Patel, R. and **Rana, R.S.** 2017. Palaeogene fish otoliths from the lignite associated succession (Cambay Formation), Khadsaliya, Bhavnagar, Gujarat, India. *Jour. Geosci, Research*, 2910:81-92.
69. Bemis, K.E., Tyler, J.C., Bemis, W.E., Kumar, K., **Rana, R.S.** and Smith, T. 2017. A gymnodont fish jaw with remarkable molariform teeth from the early Eocene of Gujarat, India (Teleostei: Tetraodontiformes). *Jour. Vert. Paleont.* E 1369422 doi: 10.1080/02724634.2017.1369422
70. Rose, K.D., Dunn, R.H., Kumar, K., Perry, J.M.G., Prufrock, K.A., **Rana, R.S.**, and Smith, T. 2018. New fossils from Tadkeshwar Mine (Gujarat, India) increase primate diversity from early Eocene Cambay Shale. *Jour. Hum. Evol.* 122: 93-107.
71. Koenigswald, W.V., Rose, K.D., Holbrook, L.T., Kumar, K., **Rana, R.S.** and Smith, T. 2018. Mastication and Enamel Microstructure in *Cambaytherium*, a Perissodactyl –like ungulate from early Eocene of India. *Palaontologische Gesellschaft*, online <https://doi.org/10.107/s12542-018-0422-8>.
72. Patel, R., **Rana, R.S.** and Selden, P.A. 2019. An orb-weaver spider (Araneae, Araneidae) from the early Eocene of India. *Jour. Paleont.* 93(1): 98-104.
73. Shawn. Z., Rose, K.D., Holbrook, L.T., Kumar, K., **Rana, R.S.** and Smith, T. 2019. A new family of ungulate -like from the early Eocene of India and the many radiation of early Cenozoic eutherians. *Palaeont.* 10.1002/spp2.1288.
74. Dutta, S., Kumar, S., Singh, H., Khan, M.A., Barai, A., Tiwari, A., **Rana, R.S.**, Bera, S., Sen, S and Sahni, A. 2019. Chemical evidence of preserved collagen in 54 million year old fish vertebrae. *Palaeont.* 63(2): 195-202.
75. Patel, R., Singh, H., Prasad, M., Agnihotri, P., **Rana, R.S.** and Mohd Waqas. 2019. Diversified Early Eocene floral and faunal assemblage from Gurha, western Rajasthan: Implications for palaeoecology and palaeoenvironment. *Geophytology* 49(1&2): 49-72.
76. Mohd. Waqas and **Rana, R.S.** 2020. New Raoellide (Artiodactyla) from the Subathu Group (middle Eocene), Rajouri District Jammu and Kashmir, India and their significance. *Himalayan Geology.* 41 (2) : 171-182.
77. Solé, F., De Bast, E., Legendre, H. **Rana, R.S.**, Kumar, K., Rose, K.D. and Smith, T. 2021. New Specimens of Frugivastodon (Mammalia: Apatotheria) 3 from the Early Eocene of India Confirm Its Apatemyid Status 4 and Elucidate Dispersal of Apatemyidae. Consequences of Plate Tectonics: New Perspectives on Post-Gondwanal and Break-up—

A Tribute to Ashok Sahni, Vertebrate Paleobiology and Paleanthropology, https://doi.org/10.1007/978-3-030-49753-8_12.

78. Patel, R., **Rana, R.S.** and Nel, A. 2021. First two cockroaches from the early Eocene of western Rajasthan, India (Insecta: Blattodea). *Zootaxa*, 4927 (3): 445–450.
79. Patel, P., Shah, S.Y.A., Khanday, A.A. Mohd Waqas and **Rana, R.S.** 2021. Limb elements of *Cervus* sp. from Lower Karewa Formation of Jammu and Kashmir, India, comments on functional morphology and palaeobiogeography. *Jour. Palaeont. Soc.* 66(1): 72-88
80. **Rana, R.S.**, Mohd Waqas, Orliac, M.J., Folie, E. Smith, T. 2021. A new basal raoellids artiodactyl (Mammalia) from the middle Eocene Subathu Group of Rajouri District, Jammu and Kashmir, northwest Himalaya, India. *Geobios*, <https://doi.org/10.1016/j.geobios>.
81. **Rana, R. S.**, Patel, R., Cicimurri, D.J. and Ebersole, J.A. 2021. Additions to the elasmobranch assemblage from the Bandah Formation (middle Eocene, Bartonian), Jaisalmer District, Rajasthan, India, and the palaeobiogeographic implications of the fauna. *Palaeovertebrata*, doi:10.18563/pv.44.2.e1
82. Patel, R., Hazra, T., **Rana, R.S.**, Hazra, M., Bera, S. and Khan, M.A. 2021. First fossil record of mulberry from Asia. *Review of Palaeobotany and Palynology*: <https://doi.org/10.1016/j.revpalbo.2021.104459/0034-6667/>.
83. Zaher H., Folie, A., Ana B. Quadros., A.B., **Rana, R.S.**, Kumar,, Rose,K. D., Fahmy, M. and Smith, T. 2021. Additional vertebral material of *Thaumastophis* (Serpentes:Caenophidia) from the early Eocene of India provides new insights on the early diversification of colubroidean snakes. *Geobios*, <https://doi.org/10.1016/j.geobios.2020.06.009> 0016-6995/C 2020 Elsevier.