

Rajendra Singh Rana

1. Name: Rajendra Singh Rana
2. Father's Name: Late Shri Sher Singh Rana
3. Date of Birth: 20th April 1959
4. Corresponding Address: 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 Scientists 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:** 08
10. **Field of specialization:** Palaeobiology
11. **Research Publications:** 86 (37 National, 49 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)

Momograph:

1. Rose, K.D., Holbrook, L.T., Kumar, K., **Rana, R.S.**, Ahrens, H.E., Dunn, R.H., Folie, A. Jones K.E. and Smith, T. 2020. Anatomy, Relationships, and Paleobiology of Cambaytherium (Mammalia, Perissodactylamorpha, Anthracobunia) from the lower Eocene of western India. *Jour. Verteb. Paleont.* 39: sup1 :1-147, DOI: 10.1080/02724634.2020.1761370

Book Chapter

1. Solé, F., Bast, E.D., Legendre, H., **Rana, R.S.**, Kumar, K., Rose, K. D. and Smith, T. 2020. New Specimens of Frugivastodon (Mammalia: Apatotheria) from the Early Eocene of India Confirm Its Apatemyid Status and Elucidate Dispersal of Apatemyidae. *Biol. Conseq. Plate Tectonics: New Perspectives on Post-Gondwanal and Break-up Verteb. Paleobi. Paleoanth.*, Prasad and Patnaik (eds.): 279-304.
https://doi.org/10.1007/978-3-030-49753-8_12

List of Publications

86. Patel, R., **Rana, R.S.**, Ali, A. and Khan, M.A. 2022. *Ziziphus mill.* (Rhamnaceae) fossil flowers from the Eocene of India. *Rev. Palaeob. Palyno.* (in press).
85. Kirejtshok, A.G., Patel, R., **Rana, R.S.**, Prokin, A., Nel, A. and Jach, M.A. 2022. Discovery of the oldest known elmid larva (Coleoptera, Elmidae) from the Lower Eocene of Rajasthan (India, Palana Formation). *Palaeoentomology* (www.mapress.com/j/pe)
84. Singh, N., Avait, j., **Rana, R.S** and Patel. R. 2022. The earliest occurrence *Equus* in South Asia. *Jour. Vert. Palaeont.* (in press)
83. patel, R., **Rana, R.S.**, Hazra, T. and Khan, M.A. 2022. A new species of Indian kino tree from the early Eocene forest of northwestern India. *Curr. Sci.* 123:
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 Palaeobot. and Palynology.*
81. Patel, P, Shah, S.Y.A., Khanday, A.A., Waqas, M., **Rana, R.S.** 2021. Limb elements of *Cervus* sp. from lower Karewa Formation of Jammu and Kashmir, India, comments on functional morphology and palaeobiogeography. *Paleont. Soc. India*, 66 (1), 72-88
80. **Rana, R.S.** Patel, R., Ebersole, J. and Cicir, D/ Additions to the neoselachian assemblage from the Bandah Formation (middle Eocene, Bartonian), Jaisalmer District, Rajasthan, India, and the palaeobiogeographic implications of the fauna. *Palaeoveretebrata*. [Dio:10,18563/pv.442e](https://doi.org/10.18563/pv.442e) 1-26.
79. Zaher, H., Folie, A., Quadros, A. B., **Rana, R.S.**, Kumar, K., 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*, 66, 35-43:
78. **Rana, R.S.**, Waqas, M., Orliac, M.J., Folie, A. and Smith, T. 2021. A new basal raoellid artiodactyl (Mammalia) from the middle Eocene Subathu Group of Rajouri District, Jammu and Kashmi, northwest Himalaya, India. *Geobios*, 66, 193-206
77. Mohd Waqas and **Rana, R.S.** 2020. New Raoellide (Artiodactyla) from the Subathu Group (middle Eocene), Rajouri District Jammu and Kasmir, India and their significance. *Himalayan Geology*. 41 (2) : 171-182.

76. 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.
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.
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. *The Palaeont. Association*, 63(2): 195-202.
73. Shawn. Z., Rose, K.D., Holbrook, L.T., Kumar, K., **Rana, R.S.** and Smith, T. 2019. An enigmatic new ungulate -like mammal from the early Eocene of India. *The Palaeont. Association* 10.1002/spp2.1288.
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.
71. Koenigswald, W.V., Rose, K.D., Holbrook, L.T., Kumar, K., **Rana, R.S.** and Smith, T. 2018. MasticaCitation and Enamel Microstructure in *Cambaytherium*, a Perissodactyl –like ungulate from early Eocene of India. *Palaontologische Gesellschaft*, 92(4): 671-680. <https://doi.org/10.107/s12542-018-0422-8>.
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.
69. Patel, R. Nainwal, H.C. Sharma T. and **Rana, R.S.** 2017. *Equus* Cf. *sivalensis* from the Tatrot Formation (Upper Pliocene) of Jhil-Bankabara area, Sirmaur district, Himachal Pradesh, India. Nat. workshop on Indian Siwalik, Rec. Adv. and future Res. G.S.I., Lucknow.
68. 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.* 57(6): E 1369422 doi: 10.1080/02724634.2017.1369422.
67. 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*, 29 (10):81-92.
66. Sensarma, S., Singh, H., Sahni, A and **Rana, R. S.** 2017. Nature and Composition of interbedded marine basaltic pumice in the ~52-50 Ma Vastan lignite sequence, western India: Implication for early Eocene MORB volcanism offshore the Arabian Sea. *Jour. Earth Syst. Sci.* 1-19.
65. 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.
64. 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.

63. 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.
62. **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.
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58. 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.
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56. 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.
55. 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.
54. 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.
53. 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.
52. 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.
51. 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.
50. Mayr, G., Rana, R.S., Rose, K.D., Sahni, A., Kumar K., Singh, L. and Smith, T. 2010. Quercypsitta-like birds from the early Eocene of India (Aves, ?Psittaciformes). *Jour. Vert. Paleont.* U.S.A. 30 (2): 467-478.

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48. 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.
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46. 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. Soc. India*, 53(1): 31-36.
45. 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.
44. 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. Polandica*, 53(2):391-403.
43. 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.
42. **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. Polandica*, 53 (1):1-14.
41. 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.
40. 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.
39. Kumar, K., **Rana, R.S.** and Singh, H. 2007. The fishes of the Khuiala Formation (early Eocene) of the Jaisalmerbasin, Western, Rajasthan, India. *Curr. Sci.* 93(4):553-559.
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36. **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.

35. 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.
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25. **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.
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