RESUME

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Educational Qualifications :

B.Sc. (Hons.)	B.H.U., Varanasi	1982
M.Sc. (Geology)	B.H.U., Varanasi	1985
Ph.D. (Geology)	B.H.U., Varanasi	1989

Field of Specialisation: Paleontology & Stratigraphy.

Publications: 73 (Full papers – **45**, Abstracts/report – **28**)

Award: Sharda Chandra Gold Medal – 2011 by the Palaeontological Society of India for best scientific contribution in Palaeontology**.**

Membership of Learned/ Professional National / International Bodies:
Member, international Working Group on Kimmeridgian/Tithonian (Jurassic) under International Commission of Stratigraphy.

Research Interest

The Indian marine Jurassic – Cretaceous sedimentary successions. The studies are principally aimed at applicative aspects of paleontology including development of high resolution biostratigraphic framework on the south Tethyan margin, sequence stratigraphy, recognition of oceanic anoxic events, several plate tectonic events, intrabasinal to intercontinental correlations of geological events etc.. The tools used are the systematic revision of the chronostratigraphically significant fauna during the Mesozoic on modern trends. The ammonoid studies have also been used for comprehension of interplay of eustacy, sediment supply, sequence stratigraphy, paleogeography, plate tectonics etc.

Full Research Papers (published/accepted/communicated)

1.	Kumar, S., Jaitly, A. K., Pandey, B., **Pathak, D. B.** and Gautam, J. P.	Comm.	Turonian (Late Cretaceous) limids (bivalve) from the Bagh Group, central India. **Journal Palaeontological Society of India,**
2.	Kumar, S., **Pathak, D. B,** Jaitly, A. K. and Gautam, J. P.	Comm.	The age of the Nodular Limestone Formation (Late Cretaceous), Narmada Basin, central India, **Journal of Earth System Science.**
3.	Pandey, B., **Pathak, D. B.,** Mathur, N., Singh, P.K. and Jaitly, A.K.	Comm	A preliminary evaluation on the prospects of hydrocarbon potential in the carbonaceous shales of Spiti and Chikkim formations, Tethys Himalaya, India. **Journal of Geological Society of India.**
4.	Pandey, B., **Pathak, D.B**. and Jaitly, A.K.	In Press.	A new ammonite genus *Geticeras* gen. nov. from the Lower Valanginian (Lower Cretaceous) of the Spiti Valley, Tethys Himalaya, India. **Himalayan Geology.**
5.	Pandey, B. and **Pathak, D.B.**	2017	Biostratigraphic implication of *Olcostephanus* Neumayr 1875 (Ammonoidea) from the Lower Cretaceous Giumal Formation, Spiti Valley, Tethys Himalaya, India. **Cretaceous Research** Vol. 70, pp. 244-251.

6.	Pandey, B. and **Pathak, D.B.**	2016	The possibility of the Oceanic Anoxic Events (OAEs) study in the Indian marine Jurassic - Cretaceous outcrops. **Journal of Geological Society of India,** Vol. 87, pp.261-267.
7.	Kumar, S., Gautam, J. P., Pandey, B., **Pathak, D. B.** and Jaitly, A. K.	2016	Some Unknown Arcid Bivalves from the Turonian (Late Cretaceous) of Central India. **International Journal of Science and Research (IJSR),** Vol. 5(3) 1405-1410.
8.	Mamilla, V., Pandey, B., **Pathak, D.B.**, Guguloth, P. and Krishna, J.	2016	Magnetostratigraphy of the Middle Jurassic Sediments from Kachchh Basin, Western India. **International Journal of Geosciences,** Vol.7, 301-310.
9.	Pandey, B. and **D.B. Pathak**	2015	Status of the Indian Early Cretaceous ammonoid record in light of recent observations in the Spiti Valley, Himachal Himalaya. **Himalayan Geology,** Vol. 36 (1), pp. 1-8.
10.	Pandey, B. and **D.B. Pathak**	2015	Record of Early Bathonian ammonoids from Kachchh, India: Biostratigraphic and Palaeobiogeographic implications. **Journal Palaeontological Society of India,** Vol. 60 (1), pp. 33-44.
11.	Gautam, J.P., Pandey, B., **Pathak, D.B**. and Jaitly, A.K.	2015	Recognition of the Early Albian *Douvilleiceras mammillatum* Zone in the Cauvery Basin, SE India, **Earth Science India,** Vol. 8 (IV), pp. 100-111.
12.	Mamilla, V., Pandey B., Pappana, G., **Pathak , D. B**. and Krishna, J.	2014	New Palaeomagnetic Evidences about Deccan Trap volcanic activity from the magmatic bodies of Kachchh Basin, Northwest India. **Journal of Indian Geophysical Union,** Vol. 18 (1), pp. 99-107.
13.	Pandey B., **Pathak D. B**. and Krishna, J.	2013	*Calliphylloceras heterophylloides* (Oppel, 1856) from basal most Jurassic succession of Sadhara dome, Kachchh, India. **Journal Palaeontological Society of India** Vol. 58 (1), pp. 61-65.
14.	Pandey, B., **Pathak D. B.** and Krishna, J.	2013	Preliminary remarks on new ammonoid collection from freshly exposed succession of the Spiti Formation between Lidang and Giumal, Spiti Valley, Himachal Himalaya, India. **Himalayan Geology,** Vol. 34 (2), pp.124-134.
15.	Pandey, B., **Pathak, D. B.,** Jaitly, A. K., Krishna, J. and Mamilla, V.	2012	Record of Tethyan gastropod genus *Astrohelix* Szabó, 1984 from Late Bajocian (Middle Jurassic) of Kachchh, western India. **Indian Journal of Geosciences**, Vol. 66 (1), pp. 65-68.
16.	Pandey, B., Krishna, J., **Pathak D. B**. and Kumar, A.	2012	Ammonoid Biostratigraphy of Bathonian Succession at Jumara, Kachchh, Western India. **Journal Indian Geological Congress**, Vol. 4(2), pp. 7-18.
17.	**Pathak, D.B.**, Krishna, J. and Pandey, B.	2011	Differentiation of the Significant Late Valanginian (Early Cretaceous) transgressive event in the Spiti Himalaya, India. **Journal of Asian Earth Sciences**, Vol. 42, pp. 1226-1231.
18.	Krishna, J., Pandey, B. and **Pathak, D.B.**	2011	Current Status of the Jurassic Ammonoid Stratigraphic Framework in the Indian Subcontinent with Focus on the Techtonically controlled Regional Transgressive – Regressive Couplets. **Memoir of the Geological Society of India,** No. 78, pp. 140-176.
19.	Pandey, B., Krishna, J. and **Pathak, D.B.**	2010	Review of the Ammonoid Subfamily Virgatosphinctinae with special reference to its Evolutionary Succession in the Indian Subcontinent on the Gondwanian Tethyan Margin. **Journal of Scientific Research**, BHU, Varanasi, Vol. 54 (1&2), pp. 21-34**.**
20.	Krishna, J., Pandey, B. and **Pathak, D.B.**	2010	Update on the Jurassic Stratigraphy of the Indian Subcontinent with Focus on the Tectonically Controlled Regional Transgressive – Regressive Couplets. **Earth Science Frontiers**, China University of Geosciences, Vol. 17, pp.138-140**.**

21.	Krishna, J., Pandey, B. and **Pathak, D.B.**	2009	Characterization of *Dichotomoceras* in the Oxfordian of kachchh. **Journal Geological Society of India**. Vol. 74**,** pp. 469 -479.
22.	Krishna, J., Pandey, B., Ojha, J.R. and **Pathak, D.B.**	2009	Reappraisal of the age framework, correlation, environment and nomenclature of Kachchh Mesozoic lithostratigraphic units in Wagad. **Journal of Scientific Research**, Banaras Hindu University,
24.	**Pathak, D.B.**	2007	Jurassic/Cretaceous Boundary in the Spiti Himalaya, India**. Journal of the Palaeontological Society of India,** Vol. 52 (1), pp. 51- 57.
25.	**Pathak, D.B.**	2000	The Jurassic/Cretaceous Boundary and its identification in Tethys Himalaya. Mem. **Memoir Geological Society of India,** No. 46, pp**.** 421-423.
26.	Krishna, J., **Pathak, D.B.,** Pandey, B. and Ojha, J.R.	2000	Transgressive Sediment Intervals in the Late Jurassic of Kachchh, India. **Geo Research Forum**, **Transtec Publications, Switzerland,** Vol. 6, pp. 321-332.
27.	Krishna, J., Pandey, B., Ojha, J.R. and **Pathak, D.B**.	2000	Ammonoid – Foraminifer Zonal Integration in the Jurassic of Kachchh, India. **ONGC Bulletin,** Vol. 37(1), pp. 9-21.
28.	Krishna, J., **Pathak, D.B** and Pandey, B.	1998	Development of Oxfordian (Early Upper Jurassic) in the most Proximally Exposed Part of Kachchh Basin at Wagad Outside the Kachchh Mainland. **Journal Geological Society of India**, Vol. 52, pp. 513-22.
29.	Kanjilal, S. and **Pathak, D.B.**	1998	Spiti Shale Bivalves from Chichim and Gate, Spiti Valley, Himachal Pradesh, India. **Himalayan Geology,** Vol**.** 19 (1), pp. 29-37.
30.	**Pathak, D.B.**	1997	Ammonoid Stratigraphy of the Spiti Shale Formation in the Spiti Himalaya, India. **Journal Geological Society of India**, Vol. 50, pp. 191-200.
31.	Krishna, J., **Pathak, D.B.** and Pandey, B.	1996	Ammonoid age control in the Mesozoic succession of Wagad outside the Mainland Kachchh. **Geophytology**, Vol. 26 (1), pp. 63-68.
32.	Krishna, J., Pandey, B. and **Pathak, D.B.**	1996	Ammonoid Chronology in the Tithonian of Kachchh (India). **Geo Research Forum**, **Transtec Publications, Switzerland**, Vol. 1-2, pp. 205-214.
33.	Krishna, J., Pathak**, D.B.** and Pandey, B.	1996	Quantum Refinement in the Kimmeridgian Ammonoid Chronology in Kachchh (India). **Geo Research Forum**, **Transtec Publications, Switzerland** Vol. 1-2, pp. 195-204.
34.	Schweigert, G., Krishna, J., Pandey, B. and **Pathak, D.B.**	1996	A New Approach to the Correlation of the Upper Kimmeridgian Beckeri Zone across the Tethyan Sea. **Neues Jahrbuch für Geologie und Paläontologie,** Vol. 202 (3), pp. 345-373.
35.	Krishna, J., Melendez, G., Pandey, B. and **Pathak, D.B**	1996	Middle Oxfordian Ammonites (Perisphinctinae) from Kachchh (India): Biostratigraphic and Paleobiogeographic Implications. **Revista Espanola De Paleontologia**, No. Extraordinario, pp. 140-147.
36.	Krishna, J., **Pathak, D.B.** and Pandey, B.	1995	The Kimmeridgian – Tithonian (Upper Jurassic) ammonoid zones in Kachchh, Gujarat and their Correlation. **Proc. Recent Researches in Geology in Western India,** pp. 323-347.
37.	Krishna, J., Melendez, G., Pandey, B. and **Pathak, D.B.**	1995	Characterization of the ammonite genus *Larcheria* (Middle Oxfordian) in Kachchh (India): biostratigraphy and palaeobiogeographic evaluation in the context of Tethyan occurrences. **C. R. Acad. Sci. Paris,** Vol. 321(IIa), pp. 1187-1193.

38. Krishna, J. and **Pathak, D.B.** 1994 Stratigraphic, Biogeographic and Environmental Signatures in the Ammonoid bearing Jurassic - Cretaceous of Himalaya on the South Margin of the Tethys. **Journal of Himalayan Geology,** Vol. 4(2), pp. 189-205.

39. Krishna, J., **Pathak, D.B.** and Pandey, B. 1994 New ammonoid evidence for the Jurassic/Cretaceous boundary in Kachchh, Western India, and long distance correlation with Southern Europe. **GEOBIOS**, Vol. 17, pp. 327-335.

40. Srivastava, A.P., Krishna, J., Rajagopalan, G., **Pathak, D.B.** and Ojha, J.R. 1994 The First Ever Absolute age determination from the Jurassic of Kachchh, Western India. **GEOBIOS**, Vol. 17, pp. 529-533.

41. Krishna, J., Melendez, G., Pandey, B. and **Pathak, D.B.** 1994 Middle Oxfordian Perisphinctinae and biostratigraphy from Kachchh (India). Comunicaciones de las X **Jornadas de Paleontologia**, pp. 106-108.

42. Krishna, J. and **Pathak, D.B.** 1993 Late Lower Kimmeridgian – Lower Tithonian Virgatosphinctins of India: Evolutionary Succession and Biogeographic Implications. **GEOBIOS**, Vol. 15, pp. 227-238.

43. **Pathak, D. B.** and Krishna, J. 1993 Preliminary Remarks on the Biostratigraphic relevance of the Ammonoid collection from Spiti Shale Formation, Tethys Himalaya India. **Journal of Himalayan Geology,** Vol. 4 (2), pp. 207-221.

44. **Pathak, D.B.** 1993 The first record of the Ammonite genus *Hybonoticeras* from the Himalaya and its biostratigraphic significance. **Newsletters on Stratigraphy, Berlin–Stuttgart,** Vol. 28 (2/3), pp. 121-129.

45. Krishna, J. and **Pathak, D.B.** 1991 Ammonoid Biochronology of the Upper Jurassic Kimmeridgian Stage in Kachchh, India. **Journal of the Palaeontological Society of India,** Vol. 36, pp. 1-13.

Other important articles

(Abstracts/report)

1. **Pathak, D.B.,** Pandey, B., Jaitly, A.K., Gautam J. P. and Kumar, S. 2017 Recent developments in the Early Cretaceous ammonoid biostratigraphy in India. **Nat. Sem., Sagar University, Oct. 26-28,** P. 77**.**

2. Jaitly, A.K., **Pathak, D.B.,** Pandey, B., Kumar, S. and Gautam J. P. 2017 The Turonian (Late Cretaceous) bivalves from the Bagh Group, central India: A review**. Nat. Sem., Sagar University, Oct. 26-28,** p. 46.

3. Gautam J. P., Pandey, B., Jaitly, A.K., **Pathak, D.B.,** and Kumar, S. 2017 Albian ammonites from the Karai Formation, Cauvery Basin, Tamil Nadu. **Nat. Sem., Sagar University, Oct. 26-28,** P. 80.

4. **Pathak, D.B**. and Pandey, B. 2014 Discovery of Early Bathonian ammonites from Kachchh, western India and their biostratigraphic implications. **9th International Congress on the Jurassic System, University of Rajsthan, Jaipur,** p. 133**.**

5. Pandey, B. and **Pathak D.B**. 2014 Update on the litho and biostratigraphy of the Lower Cretaceous sedimentary succession in the Spiti Himalaya, India. **National Conference on Sedimentation and Stratigraphy & xxxi convention of Indian association of Sedimentologists, Department of Geology, University of Pune,** pp. 72-73.

6.	**Pathak, D. B**. and Pandey, B.	2013	Early Cretaceous Ammonoid Stratigraphy in the Indian Geological Record: Present Status and Future Prospects. **Earth Sciences in India: Challenges and Emerging trends, Department of Earth Sciences, IIT, Roorkee,** pp. 71-72.
7.	**Pathak D. B**., Pandey, B. and Krishna, J.	2012	Ammonite genus *Torquatisphinctes* Spath from Kachchh, West India: taxonomic description and revision of its species. **National Level Field Workshop and Brainstorming session on Geology of Kachchh basin, Western India: present Status and Future Perspective. Dept. of Earth and Env. Sci., KSKV, Kachchh University, Bhuj-Kachchh,** p. 35.
8.	Krishna, J., Pandey, B. **Pathak, D.B.** and Mamilla, V.	2012	Preliminary Sequence Stratigraphic insight into the Bathonian Sedimentary Succession of Kachchh, Gujarat (India). **National Level Field Workshop and Brainstorming session on Geology of Kachchh basin, Western India: present Status and Future Perspective**. **Dept. of Earth and Env. Sci., KSKV, Kachchh University, Bhuj-Kachchh,** p. 30.
9.	Pandey, B., Krishna, J, **Pathak, D. B**. and Kumar, A.	2012	Ammonoids from Bathonian of Jumara, Kachchh, West India and their biostratigraphic implication. **National Level Field Workshop and Brainstorming session on Geology of Kachchh basin, Western India: present Status and Future Perspective. Dept. of Earth and Env. Sci., KSKV, Kachchh University, Bhuj-Kachchh,** p. 34.
10.	Mamilla, V., Pandey, B., Krishna, J., **Pathak, D.B.,** Papanna, G. and Kumar, A.	2012	Magnetostratigraphy of the Kachchh Basin, India. **National Level Field Workshop and Brainstorming session on Geology of Kachchh basin, Western India: present Status and Future Perspective. Dept. of Earth and Env. Sci., KSKV, Kachchh University, Bhuj-Kachchh**, p. 43.
11.	Pandey, B. and **Pathak, D.B**.	2011	Ammonoids from Spiti Shale Formation around Diumal, Spiti, Himachal Pradesh (India) and their biostratigraphic implications (Abst.). **National Conference, Stratigraphy, Palaeontology and Palaeoenvironment, Geology Department, Rajsthan University, Jaipur**, pp. 1-2.
12.	**Pathak D.B.** and Pandey B.	2009	Sustainable development of rural India through basic minimum services. **National Symposium, The Planet Earth, Banaras Hindu University, Varanasi,** pp. 38.
13.	Krishna, J., Pandey, B. and **Pathak, D.B.**	2009	Drinking water quality: research and monitoring Strategies. **National Symposium, The Planet Earth, Banaras Hindu University, Varanasi,** pp. 27-28.
14.	**Pathak, D.B.** and Kanjilal, S.	2005	Effect of eustasy on Late Jurassic Macroinvertebrate Assemblages of Tethys Himalaya. **International Seminar on the Northward Flight of India in Mesozoic – Cenozoic : Consequences on Biotic Changes and Evolution, Lucknow University.**
15.	Krishna, J., Pandey, B, Ojha, J.R. and **Pathak D.B**.	2000	Fine order cyclicity: example from Late Jurassic of Kachchh. **National Symposium on Kachchh basin, Banaras Hindu University, Varanasi,** p. 50.
16.	Krishna, J., Pandey, B. and **Pathak D.B**.	2000	Evolution of the foraminifer stratigraphic data vis-à-vis recently realized high resolution ammonoid based Late Jurassic temporal framework. **National Symposium on Kachchh basin, Banaras Hindu University, Varanasi,** p. 13.

17. Krishna, J., **Pathak, D.B.**, Pandey, B. and Ojha, J.R. 1996 High Resolution basinal dynamics in the Kachchh Mesozoic as unfolded through ammonoids. **Platinum. Jublee. National Symposium and XIII Convension of Indian Association of Sedimentologist, banaras Hindu University**, pp. A2 16- 17.

18. Krishna, J., Pandey, B. and **Pathak, D.B.** 1996 Preliminary remarks on the litho and biostratigraphy of the Upper Jurassic Bhadasar Formation of Jaisalmer basic in light of new data. **Geowest R-96, Jodhpur,** pp.8-9.

19. Krishna, J., **Pathak, D.B.,** Pandey, B. and Ojha, J.R. 1996 Ammonoid distribution in the Callovian - Tithonian interval of Kachchh (India) applied to the understanding of basinal dynamics **IV International Symposium Cephalopods - Present and Past, Granada**, pp. 94-96.

20. Krishna, J. **Pathak, D.B.** and Pandey, B 1996 Heterochronic evolutionary framework in the Kachchh Kimmeridgian - Tithonian ammonoid lineages : implications to taxonomic differentiation, chronology and eustasy, **IV International Symposium Cephalopods - Present and Past, Granada**, pp. 92-93.

21. Krishna, J. and **Pathak, D.B.** 1996 Tectonics vis-a-vis Eustasy in the Permian to Cretaceous evolution of the Tethys Himalaya. **11th Himalaya – Tibet – Karakoram Workshop, Arizona, U. S. A.**

22. **Pathak, D.B.,** Pandey, B. and Krishna, J. 1995 The first ever differentiation of the significant Upper Valanginian transgressive event in India in the Spiti Himalaya. **Symposim on Tethyan Himalaya and adjoining region, W.I.H.G., Dehra Dun,** pp. 32-33.

23. Krishna, J., **Pathak, D.B.** and Pandey, B. 1994 The Kimmeridgian ammonoid from Spiti Shale Formation, Indian Himalaya : Biostratigraphy and Palaeogeographic implications. **4th Himalaya – Tibet – Karakoram Workshop, Kathmandu, Nepal.**

24. Krishna, J., **Pathak, D.B.** and Pandey, B. 1994 Discovery of Middle and Late Oxfordian in Kachchh (India) with first ever approximation of the Oxfordian/Kimmeridgian boundary in Indian Subcontinent. **4th Oxfordian - Kimmeridgian Working Group Meeting, Lyon, France,** p. 10.

25. Krishna, J., **Pathak, D.B.,** Pandey, B. and Ojha, J.R. 1993 The Jurassic/ Cretaceous system and Upper Jurassic interstage boundary in Kachchh, Gujarat. **Indian Geological Congess, Thanjavur (T.N.).**

26. **Pathak, D.B.** 1992 **Ammonoid** systematics and biochronology of the Spiti Shale Formation, Tethys Himalaya, India. **9th Gp. Monitoring Workshop on DST Young Scientist Proj.,** Mysore, India, 52-57.

27. Krishna, J., **Pathak, D.B.** and Pandey, B. 1992 The problem of recognition of the Kimmeridgian stage and delineation of Kimmeridgian / Tithonian boundary on the south-east margin of the Tethys. **Oxfordian - Kimmeridgian Joint Working Group Meeting, Warszawa, Poland.**

28. Krishna, J., **Pathak, D.B.**, Dubey, N., Pandey, B. and Ojha, J.R. 1991 The Jurassic of Kachchh: an integrated model of high resolution stratigraphy, environmental framework and Vail sea level cycles. **2nd Seminar on Petroliferous Basins India, Dehradun,** pp. 104-106.

29. Krishna, J. and **Pathak, D.B.** 1989 Kimmeridgian in Ler – Katrol area of Kachchh, Western India: ammonoid systematics and biochronology. **28th Internat. Geol. Congress**, **Washington, U.S.A.**, pp. 228-229.

30. Krishna, J. and **Pathak, D.B.** 1989 Ammonoid systematic and biochronology of the Upper Jurassic Kimmeridgian Stage in Kachchh, India. **XIIIth Indian Colloquium on Micropaeontology and Stratigraphy Lucknow, India,** pp. 32-33.