

SYSTEMATICS STUDIES ON *GEASTRUM* SPECIES FROM JAMMU PROVINCE

Sanjeev Kumar and Yash Pal Sharma

Department of Botany, University of Jammu, Jammu (J&K)- 180006.
E.mail. sanjeevkoul222@gmail.com

Abstract: During exploration of wild mushrooms from some locations of Jammu province of Jammu and Kashmir state. The present paper deals with six species of *Geastrum* namely *G. campestre*, *G. drummondii*, *G. fimbriatum*, *G. pectinatum*, *G. triplex* and *G. velutinum*. Their habitat description, macro and microscopic features has been described and illustrated in the present communication. Survey of literature reveals that out of these *Geastrum drummondii* have not been earlier reported from the state of Jammu and Kashmir and thus constitutes new record for the state and remaining constitute first authentic report from Jammu province.

Keywords: Mushrooms, *Geastrum*, Jammu and Kashmir

REFERENCES

- Abraham, S.P. (1991).** Kashmir fungal flora- An overview. *Indian Mushroom Floristic Studies*, 13-24.
- Ahmad, S. (1941).** Gasteromycetes of the western Himalayas- I. *J. Indian Bot. Soc.* **20**: 173-182.
- Arora, D. (1986).** *Mushroom Demystified*. A comprehensive guide to fleshy fungi. Ten Speed Press, Berkeley, California, pp. 936.
- Atri, N.S.; Kaur, A. and Kour, H. (2003).** Wild mushrooms-collection and identification. *Mushroom Research* **12**: 6-16.
- Bakshi, B.K. (1974).** Mycorrhiza and its role in forestry. F.R.I., Dehradun.
- Cunningham, G.H. (1942).** The Gasteromycetes of Australia and New Zealand. Donedin, pp. 236.
- Gwynne-Vaughan, H.C.I. and Barnes, B. (1965).** *The structure and development of fungi*. 2nd ed., Cambridge University Press, Cambridge.
- Hawker, L. E. (1968).** Hypogeous Ascomycetes from Idaho. *J. Elisha Mitchell Sci. Soc.* **84**: 248-253.
- Hawksworth, D.L.; Kirk, P.M.; Sutton, B.C. and Pegler, D. N. (1995).** *Ainsworth and Bisby's Dictionary of The Fungi*. Int. Mycol. Inst. CAB International, London, pp. 616.
- Kaul, T.N. (1997).** *Introduction to mushroom science*. Oxford Publishing Co. New Delhi, pp.187.
- Kumar, A.; Bhatt, R.P. and Lakhanpal, T.N. (1990).** *The Amanitaceae of India*. Bishen Singh Mahendra Pal Singh, Dehra Dun, pp. 160.
- Ridgway, R. (1912).** *Colour standards and nomenclature*. Washington, Ridgway.
- Smith, A.H.; Smith, H.V. and Weber, N.C. (1981).** *How to know the non-gilled mushrooms*. Wm. C. Brown Company Publishers Dubuque, Iowa, pp. 317.
- Thind, K.S. and Thind, I.P.S. (1982).** The Gasteromycetes of Himalayas-I. *Kavaka* **10**: 35-45.
- Webster, J. (1970).** *Introduction to Fungi*. Cambridge University Press, Cambridge.
- Zoberi, M.H. (1972).** *Tropical macrofungi-some common species*. The Macmillan Press Ltd., London, pp.158.