

生命科学

## 膨叶唇鳞苔原丝体发育及油体的观察

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**摘要** 首次研究了膨叶唇鳞苔(新拟) (*Cheilolejeunea ventricosa*)的孢子萌发、原丝体和油体发育及配子体发生的过程, 结果表明: (1) 使用经过改良的MS培养基(不加氨基酸和维生素, pH值为6.2, 琼脂和蔗糖浓度均为1%)能在55 d左右的时间利用孢子培养获得植物体; (2) 用0.1%的次氯酸钠溶液, 消毒5 s是消毒孢子的最佳方案; (3) 油体在孢子萌发初期为均一型, 到幼叶发生后, 成为可见的聚合型, 但聚合的程度比野生材料要弱. 膨叶唇鳞苔的孢子萌发类型属于细鳞苔型 (*Lejeunea type*).

**关键词** [膨叶唇鳞苔](#); [苔类植物](#); [油体](#); [孢子](#); [组织培养](#); [孢子萌发](#)

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## Protonema development and observation on oil bodies of *Cheilolejeunea ventricosa* (Schiffn.) X.L.He(Chinese)

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### Abstract

The spores of *Cheilolejeunea ventricosa* (Schiffn.) X.L.He were cultured on MS media (without acid and vitamin, pH=6.2, with 1% agar and 1% sucrose). The sporeling development and oil body ontogeny were observed. After a 55-day-long axenic culture, young plants were obtained successfully. Sodium hypochlorite solution was used to sterilize the capsules. Our results revealed that the sterilizing treatment with 0.1% Sodium hypochlorite solution for a period of 5 seconds was optimal. Oil bodies in primary protonemata are nearly homogeneous, but distinctly compound in the leaf cells of the primary leafy shoots. The spore germination and sporeling of *Cheilolejeunea ventricosa* belongs to *Lejeunea type*.

**Key words** [Cheilolejeunea ventricosa](#); [liverworts](#); [oil body](#); [spores](#); [tissue culture](#); [sporelin](#)

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