



云南大学学报(自然科学版) » 2003, Vol. 25 » Issue (2): 153-156,168 DOI:

生物学 最新目录 | 下期目录 | 过刊浏览 | 高级检索 ◀ Previous Articles | Next Articles ▶

冬青卫矛胚珠和雌配子体的发育

徐涛, 王跃华

云南大学 生物系 云南 昆明 650091

Development of ovule and female gametophyte in *Euonymus japonicus* Thunb

XU Tao, WANG Yue-hua

Department of Biology, Yunnan University, Kunming 650091, China

- 摘要
- 参考文献
- 相关文章

全文: PDF (379 KB) HTML (KB) 输出: BibTeX | EndNote (RIS) 背景资料

摘要 用石蜡切片的方法研究了冬青卫矛(*Euonymus japonicus* Thunb.)的大孢子发生和雌配子体的发育过程,得到以下结果:①胚珠发生为厚珠心类型,珠心表皮细胞平周分裂产生多层珠心周缘细胞,胚珠有直生与倒生胚珠2种类型,具双珠被,珠孔在成熟胚囊时期为内外珠被共同形成;②胚珠内孢原细胞为单细胞,并直接分化为大孢子母细胞,大孢子发生时,珠孔端一个细胞不分裂,合点端的一个细胞正常分裂,大孢子发育三分体,为直线型排列。③胚囊发育为蓼型,胚囊成熟后为7细胞8核胚囊,胚囊合点端有承珠盘。开花前,两极核融合为一个次生核,反足细胞退化较晚。

关键词: 冬青卫矛 胚珠 大孢子 雌配子体

Abstract: The megasporogenesis and development of female gametophyte in *Euonymus japonicus* were studied by the paraffin section method. The results are as follows: ①The ovule is crassinucellar, the nucellar epidermal cell cuts off several layer nucellar parietal. The ovule is bitegminy, anatropous and orthotropous. The micropyle is made up of an outer and inner integument; ②A single archesporial cell differentiates immediately below the nucellar epiderm, it functions directly as the megaspore mother cell. During megasporogenesis, the dyad cell near micropyle doesn't divide, however, the other cell beside the chalaza splits normally, thus it makes megaspore triad, the triad arrange in a straight line or in a "T" shape; ③Its embryo sac is Polygonum type. The mature embryo sac has seven cells and eight nuclei or seven nuclei, and a cap shaped hypostases is present in mature ovule. Two polar nuclei fuse into the secondary nucleus. Three antipodal cells degenerate lately.

Key words: *Euonymus japonicus* ovule megaspore female gametophyte

收稿日期: 2002-10-20;

基金资助: 云南省教育厅自然科学基金资助项目(0112173).

引用本文:

徐涛, 王跃华. 冬青卫矛胚珠和雌配子体的发育[J]. 云南大学学报(自然科学版), 2003, 25(2): 153-156, 168.

XU Tao, WANG Yue-hua. Development of ovule and female gametophyte in *Euonymus japonicus* Thunb[J]. , 2003, 25(2): 153-156, 168.

没有本文参考文献

没有找到本文相关文章

服务

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ E-mail Alert
- ▶ RSS

作者相关文章

- ▶ 徐涛
- ▶ 王跃华

版权所有 © 《云南大学学报(自然科学版)》编辑部

编辑出版: 云南大学学报编辑部 (昆明市翠湖北路2号, 650091)

电话: 0871-5033829(传真) 5031498 5031662 E-mail: yndxxb@ynu.edu.cn yndxxb@163.com