

## 资讯

## 顽拗性种子研究

Roberts (1973) 根据种子的贮藏行为把种子分为正常性种子和顽拗性种子, Ellis (1990) 等认为在这两者之间还存在中间类型即中间型种子。种子的顽拗性是一个数量性状, 具有连续性: 分为低度顽拗性种子、中度顽拗性种子、高度顽拗性种子。具顽拗性种子的植物主要来自两类: 一类为水生植物, 如: 菊白、菱等; 另一类主要是具大粒种子的多年生木本, 包括热带作物, 热带水果, 热带林木, 如: 可可, 红毛丹等。

顽拗性种子通常不经过脱水干燥, 在脱离母体时通常含有大量的水分, 存在胎萌现象。同时对水分的缺失存在高敏感性, 目前学术界对顽拗性种子脱水导致死亡的机理还不是很清楚, 存在两种假说。

正常性种子通常在干燥低温状态下可以长期贮藏; 而顽拗性种子在贮藏中忌干燥和低温, 因此顽拗性种子的储藏条件不能使用对正常性种子的方式, 研究人员对此也作了大量研究。

## 专类国际期刊:

《Seed Science and Technology》种子科学与技术: 由国际种子测试协会 (ISTA) 出版。创刊于 1973 年, 是 1921 年创办的《Proceedings of the International Seed Testing Association》的替换继续。每年出一卷, 每卷三期。ISSN: 0251-0952。该刊内容包括生产、取样、测试、储存、处理、分布以及种子质量的技术控制相关研究与进展等。 网址: <http://www.seedtest.org/SST/istajou.cfm5>

《Seed Science Research》种子科学研究: 国际种子科学学会的一本官方期刊, 创刊于 1990 年, 每年出版一卷, 每卷四期。ISSN: 0960-2585。该刊侧重于种子生理学、生物化学、分子生物学与生态学的研究。主要涵盖种子及胚胎发育、种子生物技术、成熟、休眠、萌芽、发育能力、寿命、活力、化学与结构防卫、保留动员、生态生理学、种子土壤与土壤动物的相互作用。 网址: <http://www.cabi-publishing.org/Journals.asp?SubjectArea=&PID=24>

## 专题书籍:

程红焱, 姜孝成, 龙春林, 2005. 《种子生物学研究指南》, 科学出版社

傅家瑞, 1985. 《种子生理》, 科学出版社

傅家瑞, 宋松泉, 2004. 《顽拗性种子生物学》, 中国科学文化业出版社

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[上接 534 页]

- (desiccation sensitive) seeds may be related to habitat. *Seed Science Research*, 6: 175 – 182.
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#### 相关网站:

Ecological Flora Database: <http://www.york.ac.uk/res/eco flora/cfm/eco fl/index.cfm>

International society for seed science: <http://www.SeedSciSoc.org>

International Seed Testing Association (ISTA): <http://www.seedtest.org/>

Millennium Seed Bank Project: <http://www.rbgkew.org.uk/msbp/index.html>

Plant Micromorphology Bibliographic Database: <http://www.rbgkew.org.uk/data/kbd-redirect.html>

Seed Information Database: <http://www.rbgkew.org.uk/data/sid/>

Seedquest: <http://www.seedquest.com/>

Seed Oil FOFA: <http://www.bagkf.de/sofa/>

The American Society of Plant Physiologists: <http://www.aspb.org/>

The seed biology palace: <http://www.seedbiology.de/>

The seed site: <http://theseedsite.co.uk/>

The Seed Biology Electronic Mailing List: <http://www.css.cornell.edu/seedbio/seedbio.html>