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Genetic structure and post-pollination selection in biennial plants

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STELLINGEN

Behorende bij het proefschrift “Genetic structure and post-pollination selection in biennial plants”, door Grażyna Korbecka

1. Biparental inbreeding cannot be strong in a population with a weak genetic structure.
dit proefschrift, hoofdstuk 4
2. The intensity of cryptic self-incompatibility may differ among plants from the same population, depending on the genetic load.
dit proefschrift, hoofdstuk 5
3. Non-Mendelian segregation of loci, as observed in genetic maps, is not a nuisance, but points at interesting phenomena like selective embryo abortion.
dit proefschrift, hoofdstuk 6
4. Molecular techniques can show not only a selection among embryos sired by the same father, but also how many loci were involved in that selection.
dit proefschrift, hoofdstuk 6
5. The term “female choice” is confusing when used in reference to selective embryo abortion because it implies active maternal control, which is not necessarily involved.
Against: Wilson M.F. and N. Burley (1983) Mate choice in plants. Princeton University Press
6. Demonstrating pollen competition is enough to prove that sexual selection occurs in plants, even without pointing at secondary sexual characters.
Against: Grant V. (1995) Proc. Nat. Acad. Sci. 92: 1247-1250
7. The first person to add bovine serum albumin (BSA) to improve PCR must have believed in magic.
8. The definition of inbreeding depression does not properly incorporate selective embryo abortion.
9. AFLP will soon decrease in popularity in plant studies because its procedure is too complex and its success in a new plant species is just unpredictable.
10. No molecular biologist, producing masses of laboratory waste plastic per year, can afford to say that he or she cares for the environment.
11. Flying last minute is exciting, but printing your thesis last minute before flying is an adrenaline kick comparable only with bungee jumping.