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### A global view of genetic diversity in cultivated sorghums using a core collection.

Deu M, Rattunde F, Chantreau J

*Genome* 2006 Feb **49**(2): 168-80 [[abstract on PubMed](#)] [[citations on Google Scholar](#)][[related articles](#)] [[full text](#)] [[order article](#)]

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### Faculty Member

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PLANT BIOLOGY

- Confirmation
- New Finding

### Comments

**In this truly global analysis on the genetic diversity of sorghum cultivars, some clarification has been achieved in the very complex field of taxonomy of the manifold agriculturally important varieties of this species.** In 8 of the 10 clusters analysed (1 kafir, 1 durra, 2 caudatum and 4 guinea), a single predominant race has been identified in each, which confirms the views of most practitioners in sorghum breeding with the latest molecular methods. The two caudatum clusters also displayed geographical and physiological differentiation (contrasting photoperiodical responses), which will help future breeding programmes by establishing more targeted seed sampling strategies. Interestingly, multivariate analysis of the results also showed the clearcut separate taxonomic status of the sub-race guinea margaritifera, but also provided evidence that guinea sorghums, excluding this sub-race, show genetic distinctions in three principle geographical areas (western Africa, eastern Africa and Asia), with the latter two appearing more closely related.

Competing interests: None declared

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## Faculty Comments

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Faculty of 1000 Biology: evaluations for Deu M et al *Genome* 2006 Feb 49 (2) : 168-80 <http://www.f1000biology.com/article/id/1053730/evaluation>

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Niklaus Ammann: Faculty of 1000 Biology, 19 Dec 2006 <http://www.f1000biology.com/article/id/1053730/evaluation>

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