

[Holgate, Philip](#)

**Conditions for the linearisation of the squaring operation in genetic algebras. A review.**  
(English) [Zbl 0760.17025](#)  
Algèbres génétiques, Cah. Math., Montpellier 38, 23-33 (1989).

This is a survey of results on linearizability (in various forms) of the squaring operation in genetic algebras. It is shown that linearizability in a baric algebra is equivalent to the existence of a train equation for the plenary powers, and various classes of algebras and stronger versions of linearization are discussed. Some of the results are presented in a new manner, simplified and/or clarified.

Reviewer: [S.Walcher \(München\)](#)

**MSC:**

[17D92](#) Genetic algebras  
[17A30](#) Nonassociative algebras satisfying other identities  
[92D25](#) Population dynamics (general)

Cited in **3** Documents

**Keywords:**

[survey](#); [genetic algebras](#); [baric algebra](#); [train equation](#); [plenary powers](#)