

## University of Groningen

### Don't underestimate father

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## **Propositions associated with the PhD thesis**

Don't underestimate father :

Effects of cryptic and non-cryptic paternal traits on maternal effect in a species without paternal care

Asmoro Lelono

1. Subordinate males have a hormonally driven counter-strategy against dominant males to propagate their genes.
2. Surprisingly, the presence and function of the major male sex steroid (testosterone) in the male's ejaculate has received hardly any attention in science.
3. Testosterone in the male junglefowl's ejaculate has the function to induce the female to differentially deposit resources in her egg affecting offspring quality.
4. Since avian females can provide sons and daughters with different amounts of hormones, it suggests that females either have information which follicle is designated to become male or female after fertilization, or actively determine the sex of their offspring.
5. The attractive hypothesis that only offspring with paternal genes for a good immune system can bear the cost of early exposure to androgens needs to be reconsidered.
6. The high level of Dutch culture and economic development was strongly facilitated by how the Netherlands made use of Indonesia during the colonization period, for which Indonesia did not receive sufficient credits.
7. "When one door closes another door opens; but we so often look so long and so regretfully upon the closed door, that we do not see the ones which open for us." - Alexander Graham Bell