

Re: Article: Parasite genes reveal long sexual history

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Perplexed in Peoria <jimmenegay@sbcglobal.net> wrote or quoted:

> *Incidentally, how does one calculate Hamilton's r (IBD) for offspring
> produced by selfing? It seems to me that $r=1$ between the parent
> and offspring. The odd thing is that reproduction by mitosis and
> reproduction by selfing give the same maximal value for r , even though
> offspring is genetically identical to the parent in the first case,
> and very different in the second case. Furthermore, two offspring
> produced independently by selfing from the same parent will only
> have $r=0.5$ between them, even though they both have $r=1.0$ wrt the
> parent. Is that right?*

If $r=1$ for selfing two offspring are also going to be related by $r=1$.

I wouldn't like $r=1$ for selfing. I'd rather have $r=0.75$ for a diploid organism – since that figure reflects roughly the proportion of parental genes are going to get lost in each offspring.

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