
From: Jeffrey Epstein <jeevacation@gmail.com>
Sent: Tuesday, November 26, 2013 10:40 AM
To: Alan Rogers; Gordon Getty
Subject: Re:

my funded attack on indiv fitness

On Mon, Nov 25, 2013 at 6:48=PM, Alan Rogers <[REDACTED]> <mailto:[REDACTED]>= target=> > wrote:

My paper was about the=evolution of menopause. George Williams had argued years before that as wo=en age, the risk of childbirth mortality increases. Eventually, that risk =utweighs the potential fitness gain from another child. My paper showed th=t this doesn't work--the risk of childbirth mortality is too low. I sa= more promise in a hypothesis having to do with opportunity cost. To do th=se calculations, I needed an age-structured theory of kin selection with a=time delay between the investment (forgone pregnancy) and the return on th=t investment (ability to care for one's previous children). So the mod=l had economic pretensions, and I eventually used it to study the evolutio= of time preference. It was the time preference work that brought me into =ontact with Gordon G.

Alan

On Mon, Nov 25, 2013 at 2:20 PM, Jeffrey Epstein <jeevacation@gmail.com <mailto:jeevacation@gmail.com>
> wrote:

risk of death in childbirth=

On Mon, Nov 25, 2013 at 5:05 PM, Alan Rogers <[REDACTED]>= /span> wrote:

Charlesworth and Charn=v published an age-structured theory of kin selection in 1981 (JTB 88:103)=and Taylor and Frank did it a different way in 1996 (JTB 180:27). I added =ime delays to the Charlesworth-Charnov model in 1993 (Evolutionary Ecology 7:406). These models all grow out of the ideas that Hamilton introduced i= his "Moulding of senescence" paper in 1966. But Hamilton 1966 d=dn't do kin selection. He did however argue that reproductive value is=not the right way to formulate the problem. His model (and also those ment=oned above) use the numerator of reproductive value, but the normalization=is different. To put this differently, the reproductive value at age x nee=s to be weighted by l_x , the probability of surviving to that age. This we=ghting is missing from the formulation directly in terms of reproductive v=lue.

Alan

2013/11/25 Gordon Getty <[REDACTED]> <mailto:[REDACTED]> >=br>

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