

“It is estimated that 70% of conceptions are lost prior to live birth...”

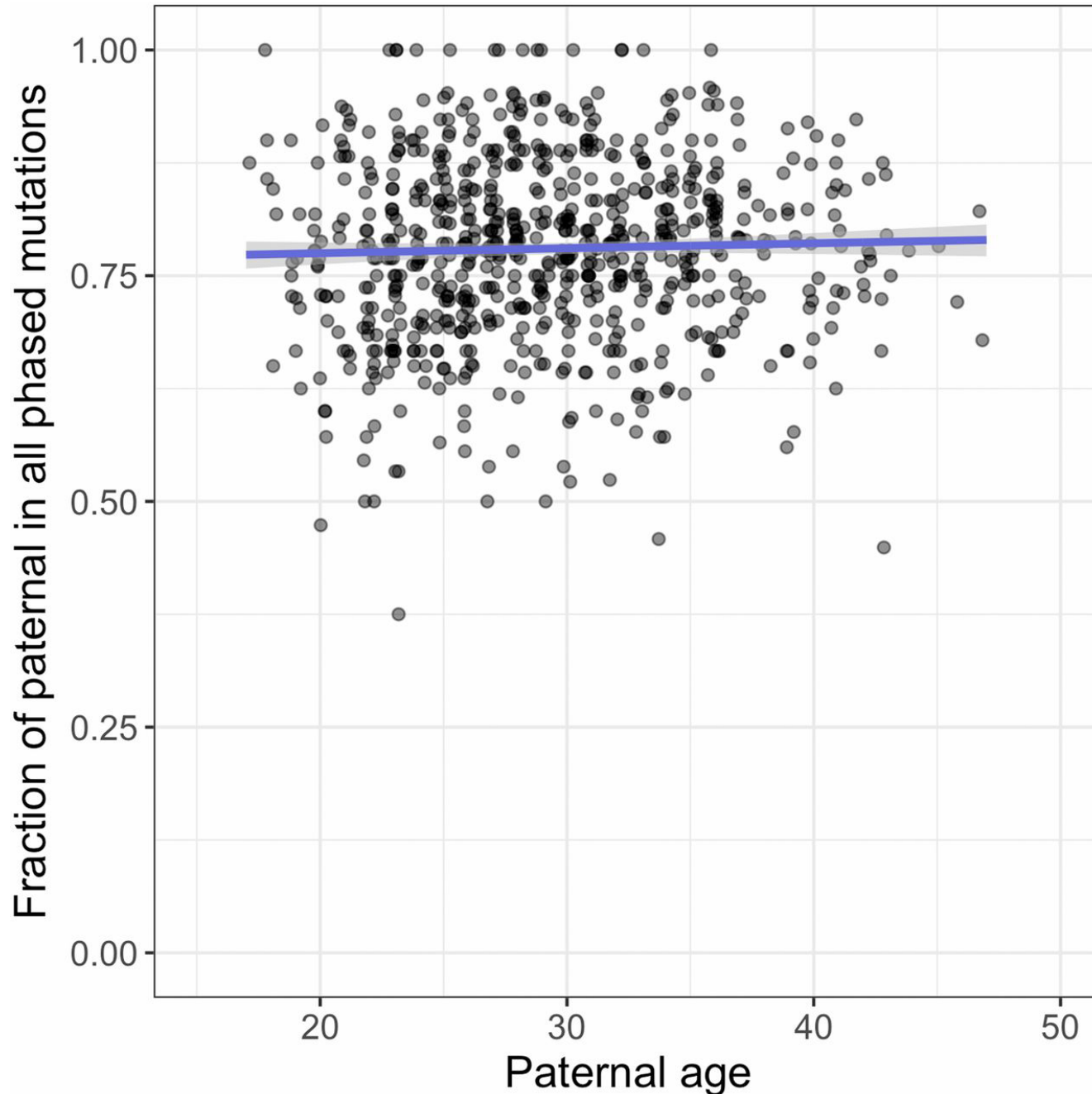
[modified from Figure 1 of Larsen, E.C., Christiansen, O.B., Kolte, A.M. et al. New insights into mechanisms behind miscarriage. BMC Med 11, 154 (2013). <https://doi.org/10.1186/1741-7015-11-154>]



James Crow
(picture from wikipedia)

The “greatest mutational health hazard to the human genome is fertile older males” -- James Crow

Maybe male germline mutations more impacted by DNA damage that accumulates with age?



Message:

Conventional explanation of strong paternal age effect on mutations is that male germlines continue to have DNA replication after puberty.

Conventional explanation appears to be wrong.

Figure 1 from Gao et al. PNAS. 2019. 116 (19): 9491-9500