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Randall Swift* (rjswift@csupomona.edu) and **Joe Gani**. *A PCR birth process subject to an enzyme death process.*

The PCR process is modelled as a birth process for DNA strands, subject to a death process for enzymes. The case of 1 DNA strand and 1 enzyme is considered first, and generalized to the n strand and b enzyme case. Finally an approximate process is considered which gives a good approximation for the expected number of DNA strands. (Received August 12, 2010)