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Populations  
and  
Evolution

The

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**statistical  
mechanics  
of a  
polygenic  
character under  
stabilizing  
selection,  
mutation  
and drift**

[Harold P. de  
Vladar, Nick](#)

## Barton

*(Submitted on 14  
Oct 2010)*

By  
exploiting  
an  
analogy  
between  
population  
genetics  
and  
statistical  
mechanics,  
we study  
the  
evolution  
of a  
polygenic  
trait  
under  
stabilizing  
selection,  
mutation,  
and  
genetic  
drift.  
This  
requires  
us to  
track