This folder contains a copy of GenAlEx 6.50903, which was the main version used to conduct the GenAlEx Simulations reported in:

The impact of mating systems and dispersal on fine-scale genetic structure at maternally, paternally and biparentally inherited markers

By Robyn E Shaw, Sam C Banks and Rod Peakall

Software requirements

Note that this version of GenAlEx also requires ZRandom to be installed in Excel. ZRandom provided superior randomization routines to those available in Excel 2010, which was the version of Excel in which the Simulation Modules was written.

Unfortunately, ZRandom is no longer supported by the author. However, he has permitted us to distribute the package along with the license code with this version of GenAlEx for scientific purposes only. Therefore, the ZRandom installation file is packaged with this version of GenAlEx.

On install, please use:

License name: Rod Peakall   License code: Y3RR-6QWK-THR3

Given that ZRandom only runs in Excel 2010 – 32 bit, this constrains the compatibility of GenAlEx Simulations (GenAlEx 6.50903) to a PC running this configuration of Excel.

Instructions

The GenAlEx Simulation routines were written exclusively for use by the Peakall research team and collaborators. Therefore, unlike the public release of GenAlEx, (see http://biology.anu.edu.au/GenAlEx/) with extensive documentation, including a 150-page guide, the documentation for running the GenAlEx Simulations is limited.

For a brief overview, please read the attached document entitled: An overview of sex-bias simulations V5.pdf. Please note that this overview does not full cover the additional mating system routines developed specifically for the above manuscript.

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Sep 13, 2017