Accepted Manuscript

From the Price equation to the selection gradient in class-structured populations: a quasi-equilibrium route

Sébastien Lion

PII: S0022-5193(18)30147-4
DOI: 10.1016/j.jtbi.2018.03.033
Reference: YJTBI 9410

To appear in: *Journal of Theoretical Biology*

Received date: 12 December 2017
Revised date: 8 February 2018
Accepted date: 24 March 2018

Please cite this article as: Sébastien Lion, From the Price equation to the selection gradient in class-structured populations: a quasi-equilibrium route, *Journal of Theoretical Biology* (2018), doi: 10.1016/j.jtbi.2018.03.033

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- I derive a quasi-equilibrium approximation of the class-structured Price equation.
- Between-class differentiation changes on a fast time scale relative to trait mean.
- This time scale separation allows for another derivation of the selection gradient.
- The link with reproductive values is discussed.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/8876715

Download Persian Version:

https://daneshyari.com/article/8876715

Daneshyari.com