

# **A semi-lagrangian method for a cell population model in a dynamical environment**

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## **Abstract**

We formulate a numerical method based on integration along characteristics curves to solve a size-structured cell population model in an environment with an evolutionary resource concentration. Numerical simulations are also reported in order to show that the approximations converge to the solution of the continuous problem. Also, we show their fine behaviour to study the dynamics of the considered problem.