

# Starvation driven dispersal and pattern formations

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Starvation driven dispersal models a non-uniform random dispersal of a biological species that increases on a starvation or a similar event. The non-uniformity of the dispersal or motility jumps on certain environmental changes may produce oscillations, patterns, and traveling waves. The cross diffusion and advection appear naturally from the starvation driven diffusion, which are main reasons for pattern formation.