

Lindauer discovered that scout bees communicate potential nest-site locations through “waggle dances”.



1955

2023



Seeley & Buhrman employed video-labeling technology to quantify dance decay and quorum-sensing dynamics.



1999

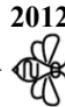
2022



Seeley et al. formulated the “quorum sensing” hypothesis, explaining the decision-triggering mechanism.



2006



Li et al. proposed a honeybee - inspired swarm cooperation approach for search and rescue missions.



2024

Zhao et al. introduced a neural network model “RMSNN” for self-organizing collision avoidance.



2024

Seeley et al. discovered that “stop signals” provide cross-inhibition for accelerating consensus formation.



2025

March-Poñs et al. replicated the nest-site selection behavior of honeybees using a physical Kilobot swarm.

Ni et al. developed a Q-learning based ABC algorithm for adaptive selection of neighborhood search strategies.

Qi et al. introduced an improved bee-foraging-inspired PSO algorithm to enhance search performance.