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**Cover Image**

Illustration of an agent-based model of engineered bacteria containing synthetic genetic circuits that enable communication via diffusive quorum sensing molecules. In this issue, Gorochowski reviews the use of agent-based modelling in synthetic biology and presents examples of the synthetic cellular systems amenable to this technique. For more information, please see pp. 325–336 in this issue of Essays in Biochemistry. Image provided by Thomas Gorochowski.

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