

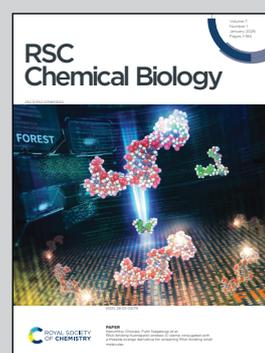
**Showcasing research from Professor Ojima-Kato's group,
Graduate School of Bioagricultural Sciences,
Nagoya University, Aichi, Japan.**

Screening and machine learning-based prediction of translation-enhancing peptides that reduce ribosomal stalling in *Escherichia coli*

This research group identified translation-enhancing peptides (TEPs) that alleviate SecM-induced ribosomal stalling in *Escherichia coli*. Using a randomized tetrapeptide library, they discovered several peptides with distinct enhancement activities. A machine learning model based on the random forest algorithm accurately predicted TEP activity, providing a powerful data-driven framework and compact peptide toolkit for improving protein synthesis and advancing synthetic biology.

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As featured in:



See Teruyo Ojima-Kato *et al.*,
RSC Chem. Biol., 2026, **7**, 58.