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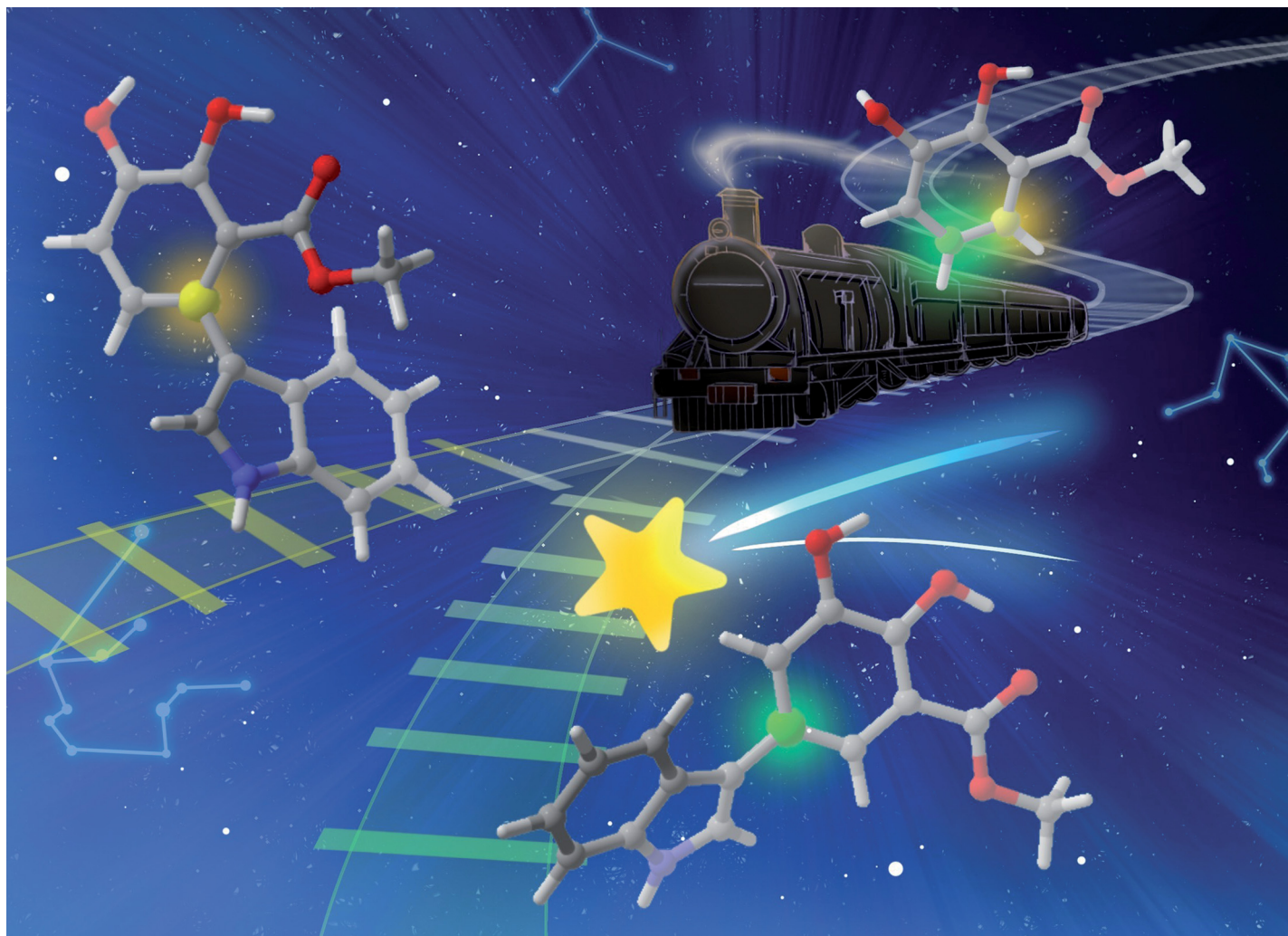
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Fundamental questions
Elemental answers

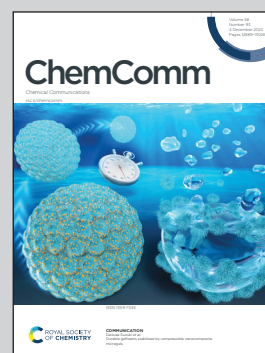


Showcasing research from the group of Associate Professor Yoshinari Sawama at Graduate School of Pharmaceutical Sciences, Osaka University, Osaka, Japan. Image designed and illustrated by Miyu Mae and Kanae Taniguchi.

Oxidative two-way regiocontrolled coupling of 3-methoxycarbonylcatechol and indoles to arylindoles

3-Methoxycarbonylcatechol effectively underwent two-way regiocontrolled coupling with indoles *via* an *ortho*-benzoquinone intermediate, resulting from phenyliodine(III) diacetate oxidation, to generate 4-adducts or 5-adducts with or without $\text{BF}_3\cdot\text{Et}_2\text{O}$ in a one-pot manner. DFT calculations confirmed the obtained regioselectivities.

As featured in:



See Yoshinari Sawama *et al.*, *Chem. Commun.*, 2022, **58**, 12935.