

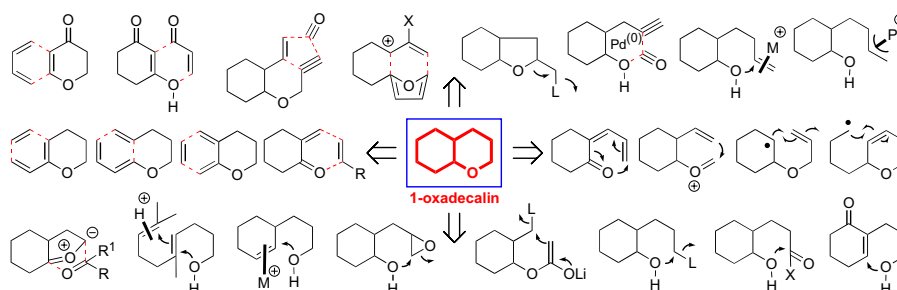
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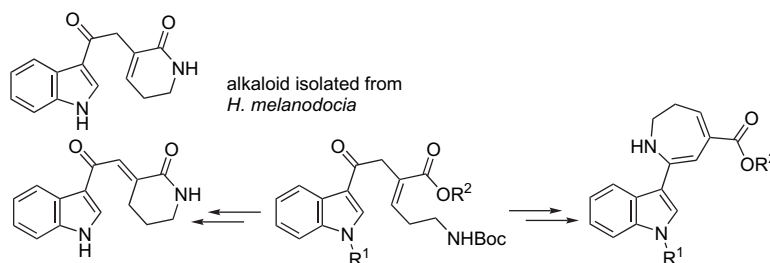
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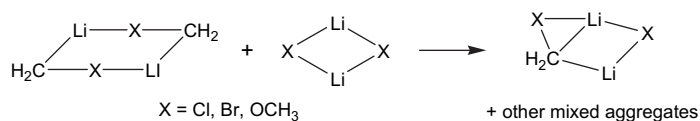
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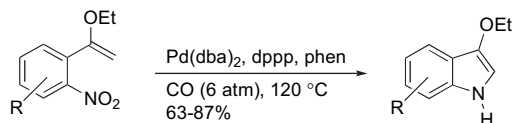
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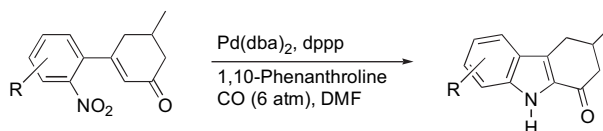
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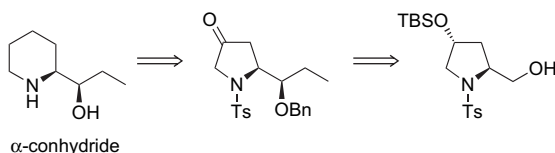
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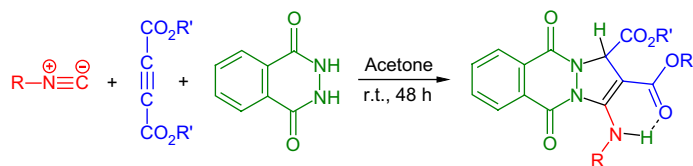
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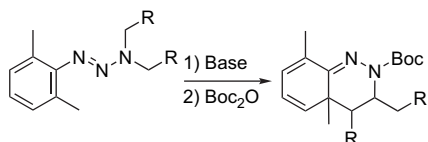
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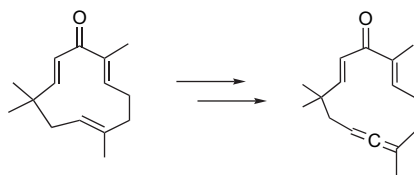
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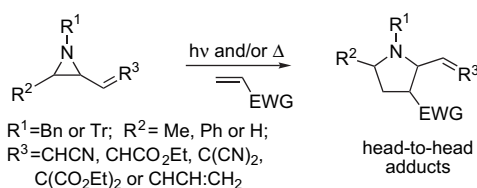
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**Photoreactions of β -aziridinylacrylonitriles and acrylates with alkenes: the substituent effects on the formation of [3+2] cycloadducts**

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Keitaro Ishii,* Takuya Sone, Takahide Shigeyama, Masahiro Noji and Shigeo Sugiyama

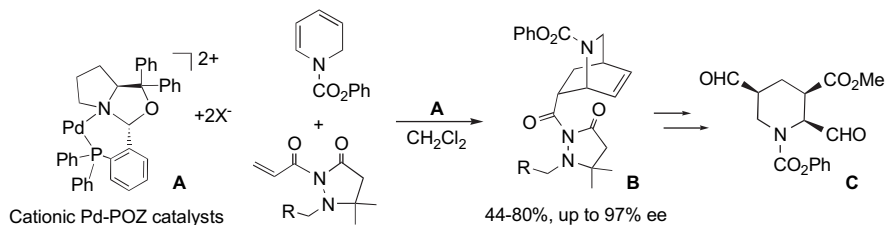


The photoreaction of tri- or disubstituted aziridines with electron-deficient alkenes afforded the novel head-to-head adducts selectivity and efficiently.

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Hiroto Nakano,* Natsumi Tsugawa, Kouichi Takahashi, Yuko Okuyama and Reiko Fujita

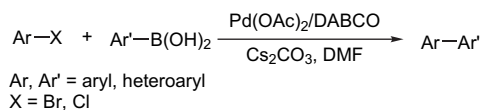


The DA reaction of 1-phenoxycarbonyl-1,2-dihydropyridine with 1-substituted 2-acryloylpyrazolidin-3-ones using cationic chiral Pd-phosphinooxazolidine catalyst **A** afforded chiral isoquinuclidines **B** with an excellent enantioselectivity (up to 97% ee). Furthermore, **B** was transformed to chiral piperidine **C** bearing three chiral carbon centers in the structure.

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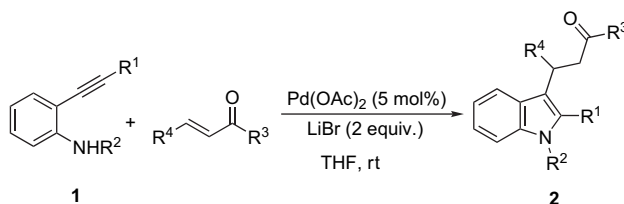
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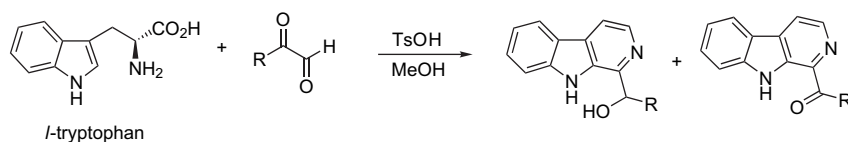
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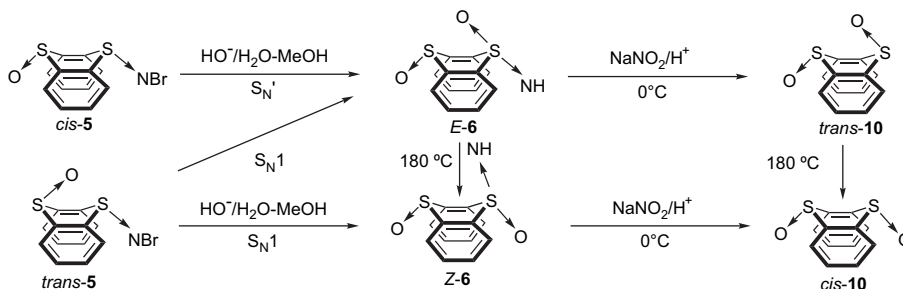
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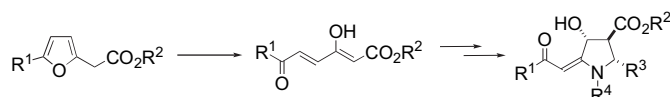
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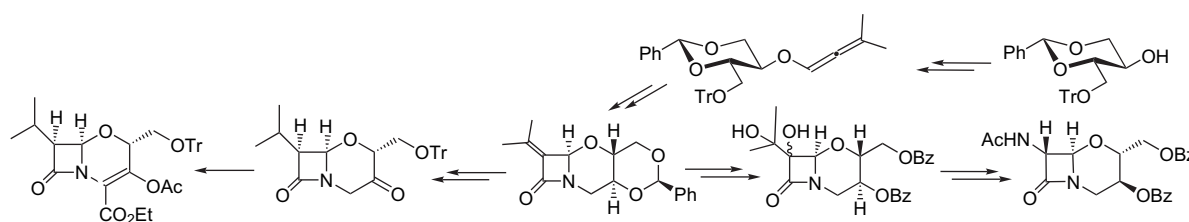
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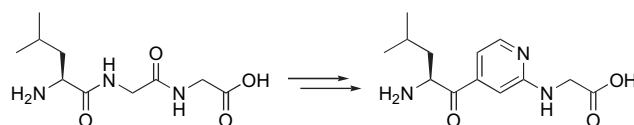
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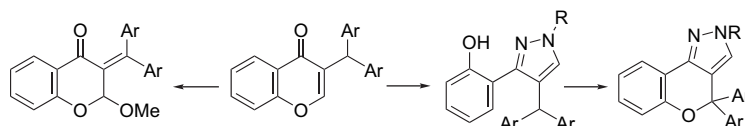
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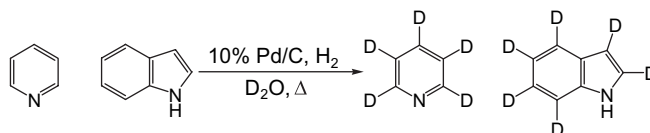
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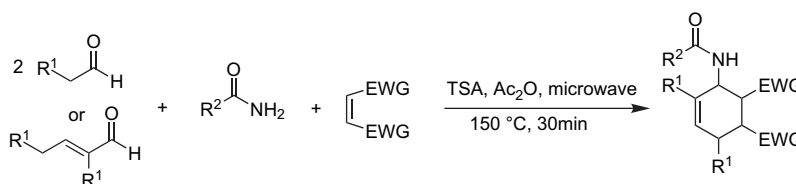
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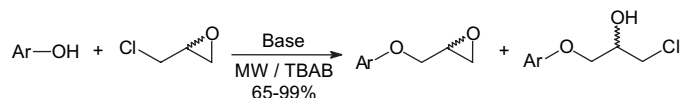
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Microwave induced multicomponent reaction without solvent comprising of aldehydes, amides, and dienophiles.

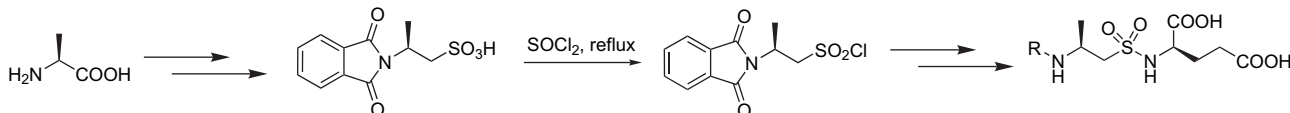
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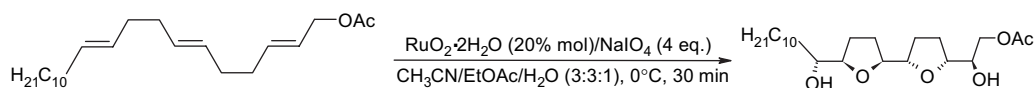
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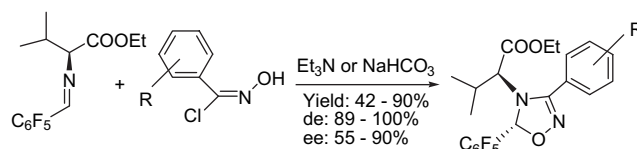
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Stereoselective preparation of 1,2,4-oxadiazole derivatives substituted by pentafluorophenyl by 1,3-dipolar cycloaddition reaction

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Huiling Jiang, Jingwei Zhao, Xiaobing Han and Shizheng Zhu*



Two methods for the stereospecific 1,3-dipolar cycloaddition reaction of chiral imines and nitrile oxides are described.

*Corresponding author

 Supplementary data available via ScienceDirect



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ISSN 0040-4020