

Desymmetrization to *P*-stereogenic triarylphosphine derivatives

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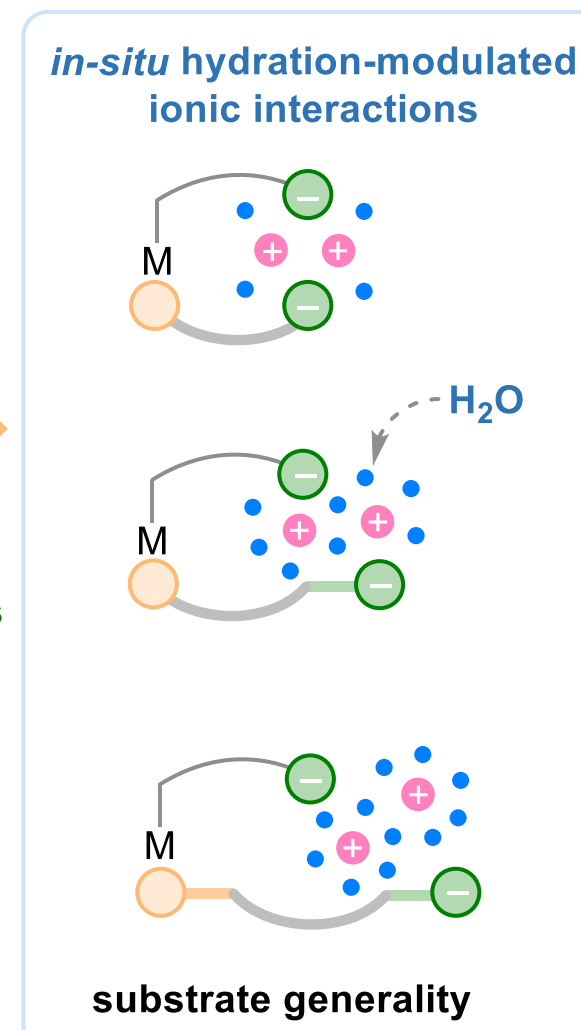
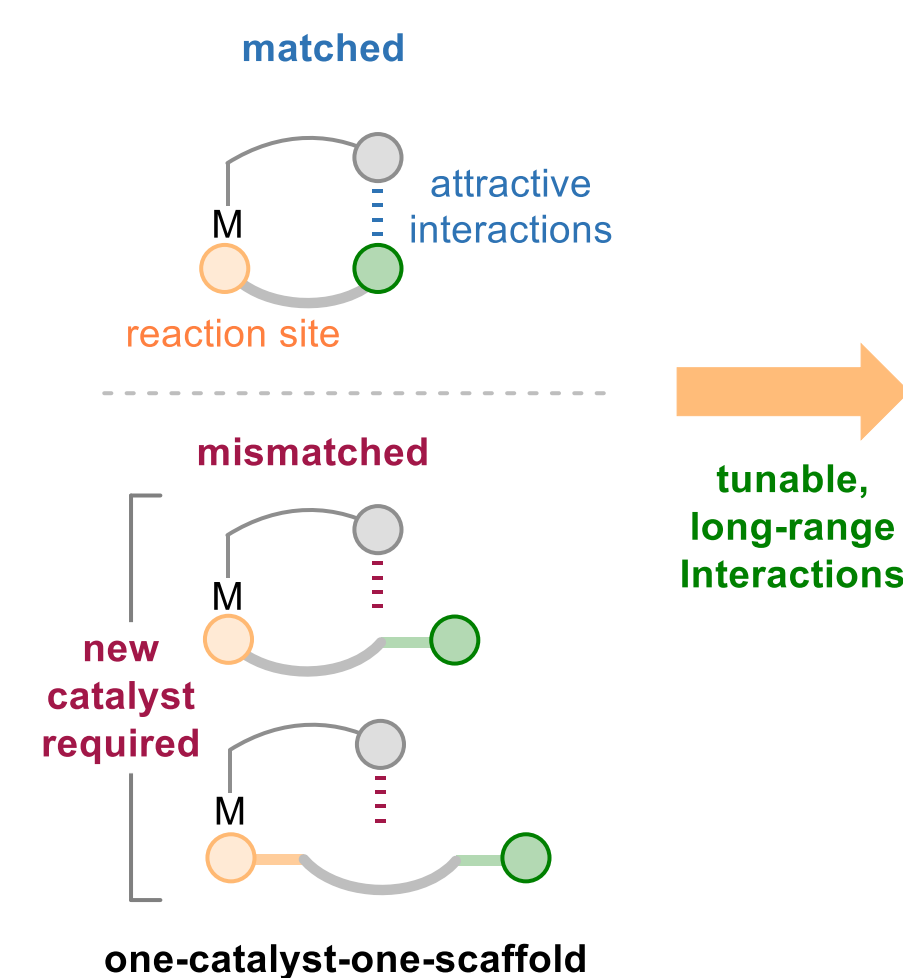
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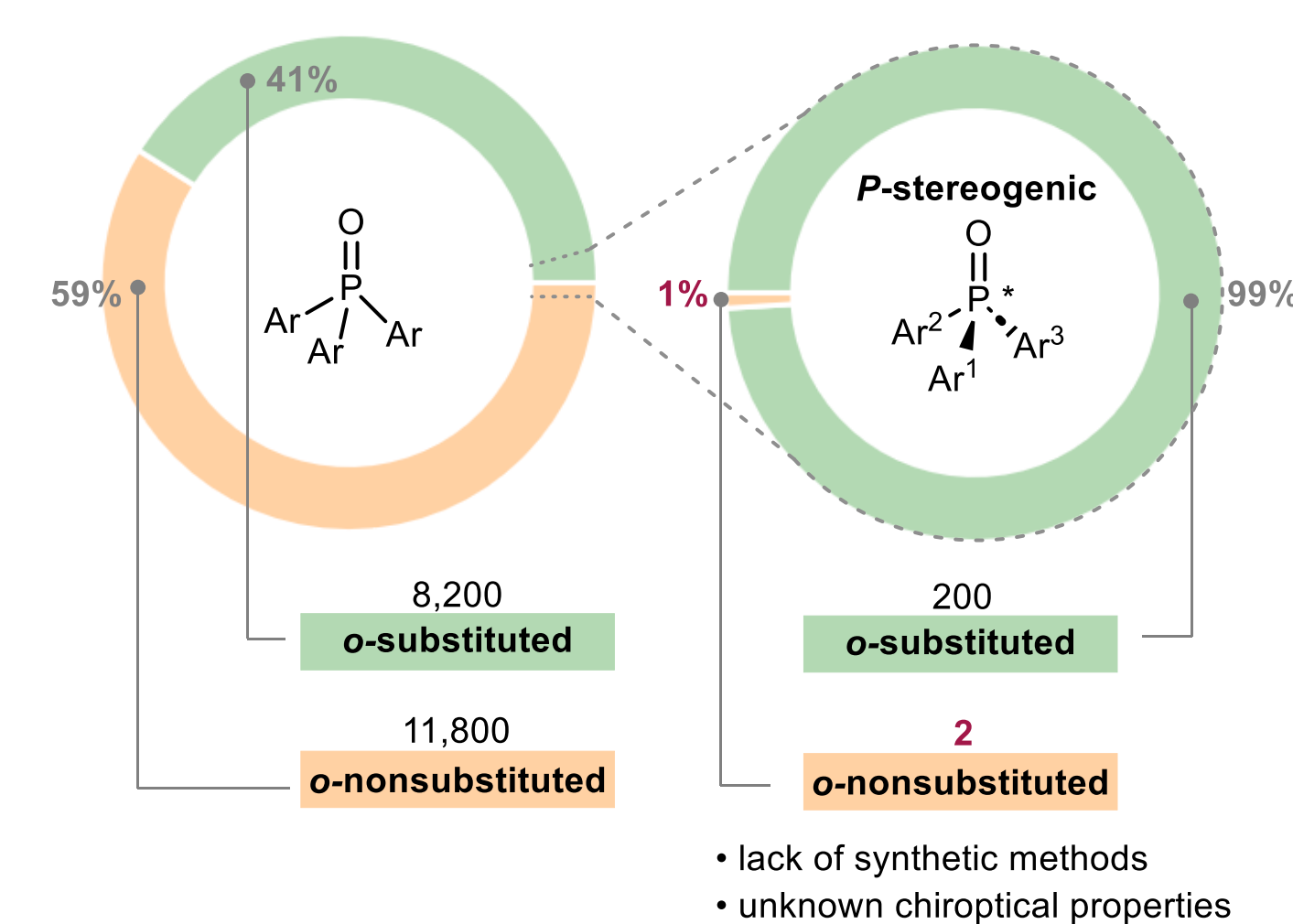
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Introduction

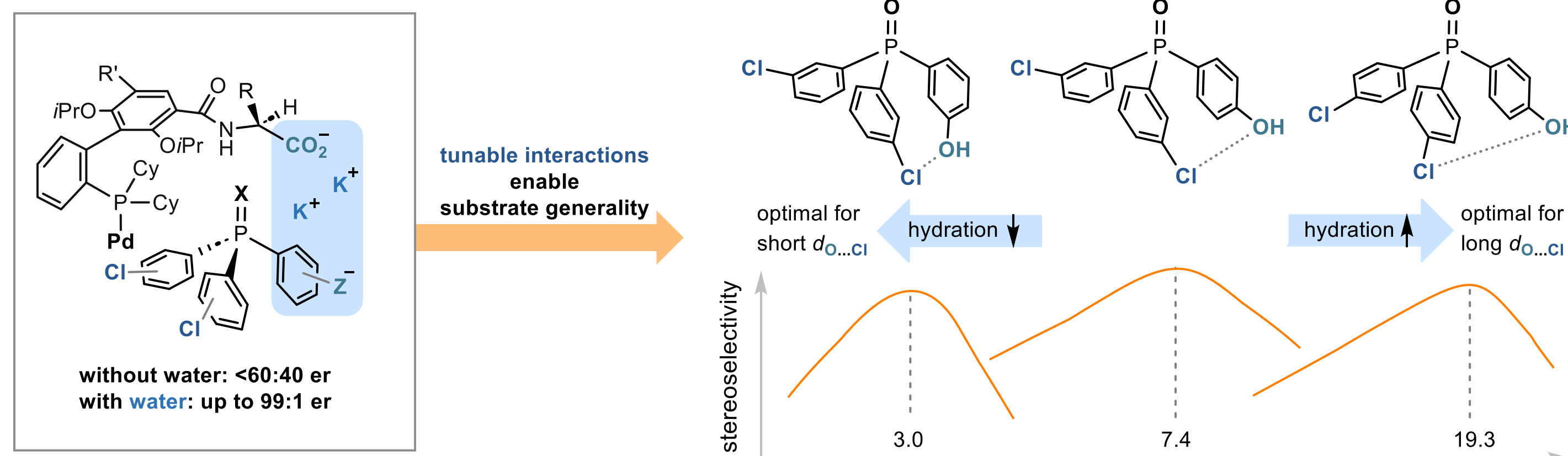
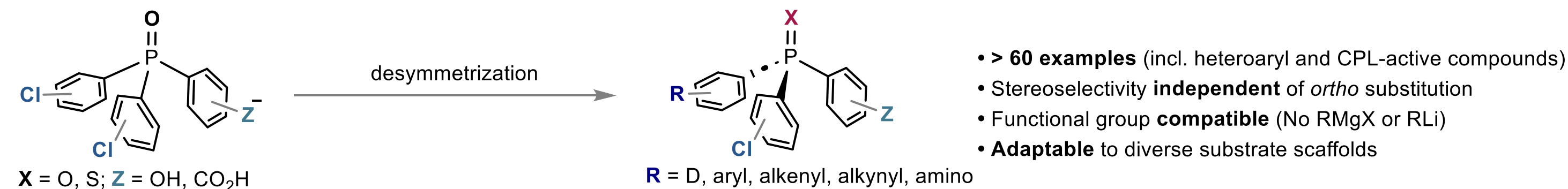
a. Substrate generality in remote stereocontrol



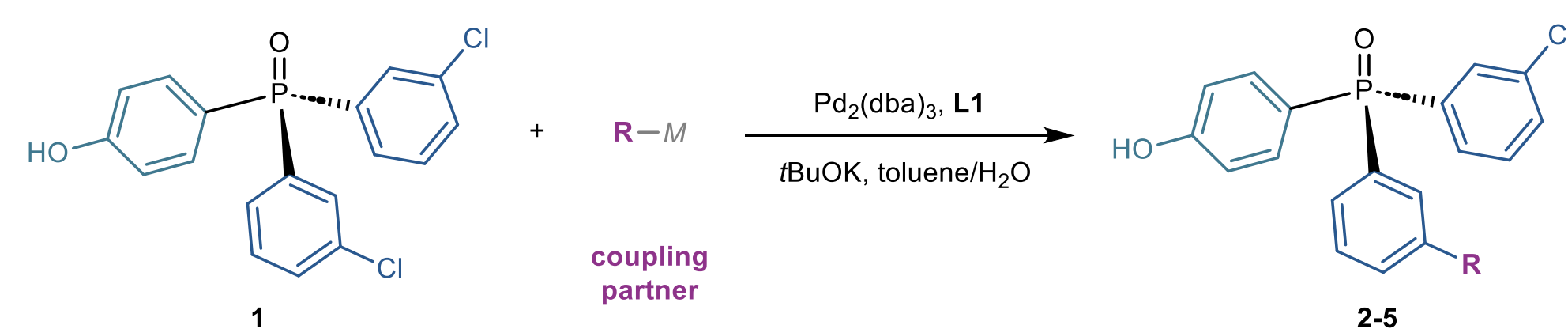
b. Triarylphosphine oxides



c.



Discovery of Water Effects



Reactions that do not proceed without water

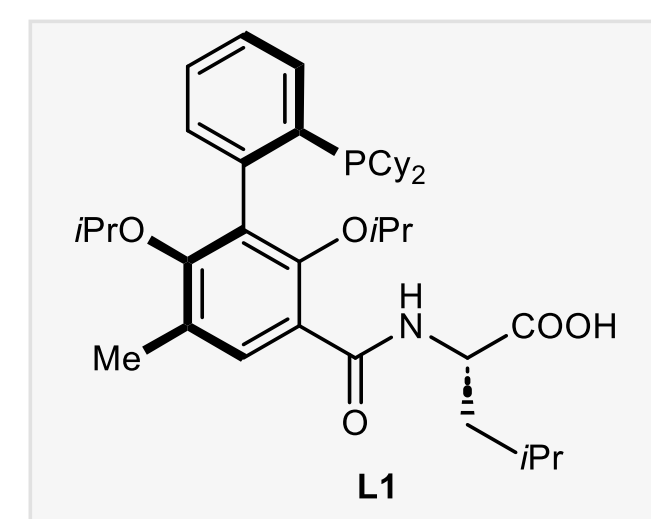
a. Suzuki-Miyaura Coupling

b. Sonogashira Coupling

c. Buchwald-Hartwig Amination

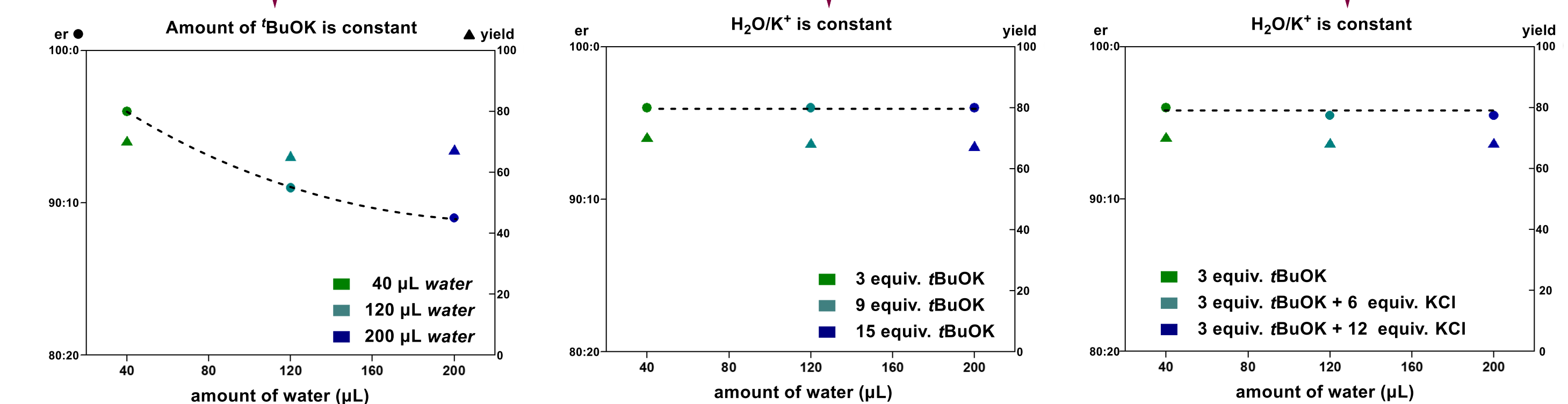
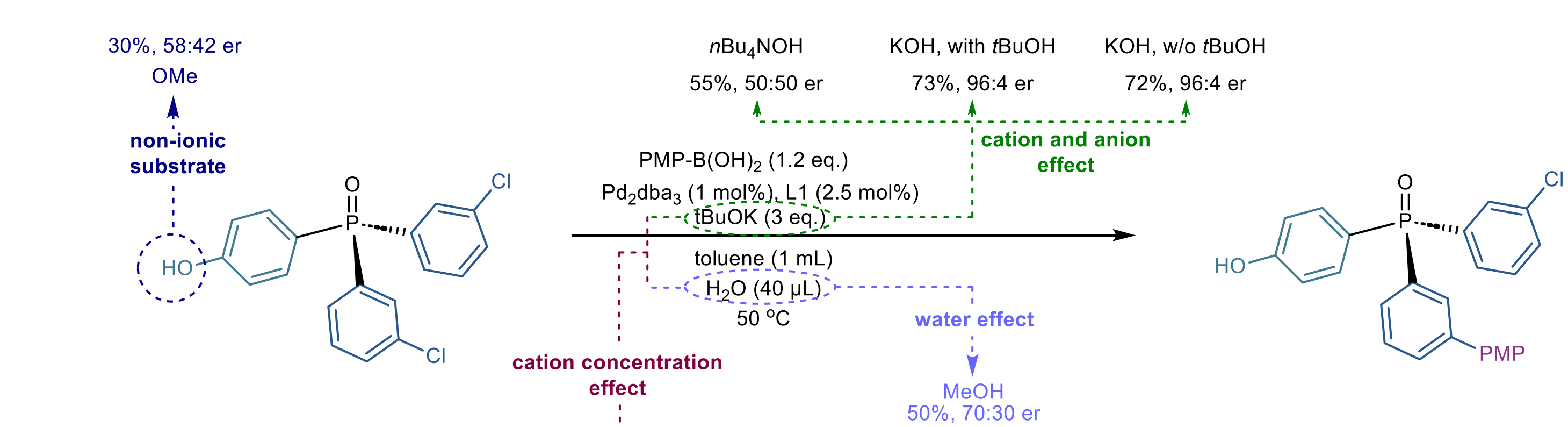
d. Deuterodehalogenation

Reactions that proceed without water



Ion Hydration

a.



b.

