Rhodium-Catalyzed Allylation Reactions

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Micelle-Mediated Chemistry in Water for the Synthesis of Drug Candidates

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Vicinal Dichlorination of \( \alpha \)-Vinylbiphenyls and the Synthesis of 9-(Arylmethyl)fluorenes via Tandem Friedel–Crafts Alkylations

\[
\begin{align*}
\text{PhICl}_2 & \rightarrow \text{ArCl}_2 \\
\text{AlCl}_3 (50 \text{ mol\%}) & \rightarrow \text{Ar-H (10 equiv)}
\end{align*}
\]

16 examples 64–96\% yield
32 examples 15–96\% yield

New Synthetic Route to Tucatinib

\[
\begin{align*}
\text{H}_2\text{N} & \rightarrow \text{S} \rightarrow \text{CF}_3\text{SO}_3\text{H} \\
\text{H}_2\text{N} & \rightarrow \text{HN} \rightarrow \text{H}_2\text{N}
\end{align*}
\]

67.2\% over 2 steps
32.8\% over 5 steps 99.1\% (HPLC) up to 110 g
67.0\% over 3 steps >99.5\% (HPLC)

Tucatinib

16.7\% over 9 steps >99.5\% (HPLC)

Amination Reactions in Organic Synthesis

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Hitchhiker’s Guide to Reductive Amination

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Sterically Hindered Amination of Aryl Chlorides Catalyzed by a New Carbazolyl-Derived P,N-Ligand-Composed Palladium Complex

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N-Aminations of Benzylamines and Alicyclic Amines with Nitrosoarenes to Hydrazones and Hydrazides

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Silver-Catalyzed para-Selective C–H Amination of 1-Naphthylamides with Azodicarboxylates at Room Temperature

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Palladium-Catalyzed Amination of Aryl Sulfides and Sulfoxides with Azaarylamines of Poor Nucleophilicity

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Enantioselective Synthesis of 2-Substituted Pyrrolidines via Intramolecular Reductive Amination

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A Short Synthesis of (2S,3S,4R)-Dihydroxyhomoprolines from D-Erythrose-Derived 5,6-Dihydro-2H-pyran-2-one

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Gold(III)/Sodium Diphenylphosphinobenzene-3-sulfonate (TPPMS) Catalyzed Dehydrative N-Benzylation of Electron-Deficient Anilines in Water

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