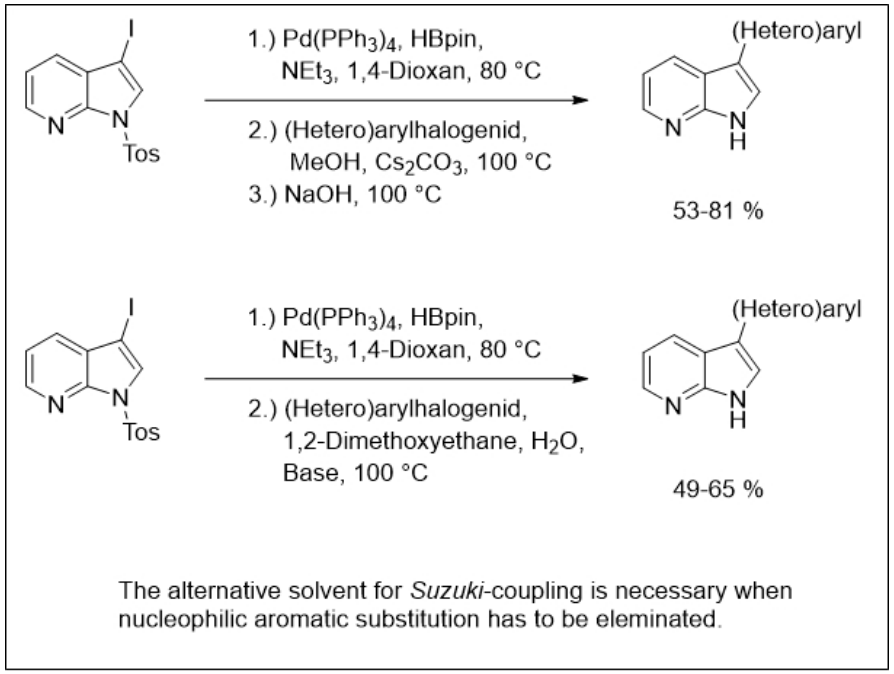
Daniel Driessen

Diversity-oriented one-pot synthesis of novel active agents against therapy resistant tumors and infections



Various 7-azaindole based amino pyrimidines and amino pyridines have shown to selectively inhibit serine-threonine kinases with lower nanomolar IC50-values. In some cases cocrystallized ligands with kinase domains of signaling cascade proteins (e.g. PDK1) were obtained. According to the sequentially Pd-catalyzed Masuda-Suzuki reaction further examples should be synthezised. Due to the successful synthesis of 7-azaindole based chloro pyrimidines, a further reaction step is to be supplemented. In addition, further potential active substances are conceivable by replacing the 7-azaindoles. Latest results set up the possibility of another One-pot Synthesis leading to potential active agents. This subproject is still in the state of planning phase.

Daniel Driessen is working in the Institute of Organic Chemistry (RG T.J.J. Müller).

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