**Synthesis of Indoles, Pyrazoles, and Pyridazinones**

**Significance:** Reported is a one-pot synthesis of indoles, pyrazoles, and pyridazinones by a variation of the Japp–Klingemann Fischer indole synthesis, involving a trifluoromethylation. The reaction was found to well-tolerate a variety of functionalized arenediazonium salts and aryl allyl ketones.

*meta*-Substituted arenediazonium salts provided mixtures of regioisomeric indoles (A and B). para-Substituted arenediazonium salts were also used with methyl pent-4-enoate to provide dihydropyridazinones in good yields.

**Comment:** The indole and pyrazole heterocyclic core is found in a number of top-selling drugs, such as sumatriptan, zolmitriptan, rizatriptan, tadalafil, and celecoxib (M. Baumann et al. *Beilstein J. Org. Chem.* 2011, 7, 442). Therefore, a simple and efficient synthesis of these heterocyclic cores is a worthwhile quest. The developed method gives access to various trifluoromethylated heterocycles. Previously, a similar methodology has been used to synthesize pyrazoles (A. Citterio et al. *J. Heterocycl. Chem.* 1981, 18, 763). Unexplained is the fact that all examples of dihydropyridazinone synthesis use para-substituted diazonium salt precursors.

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