

# Unexpected TMSCl-promoted reaction of azine carboxamides with aromatic aldehydes

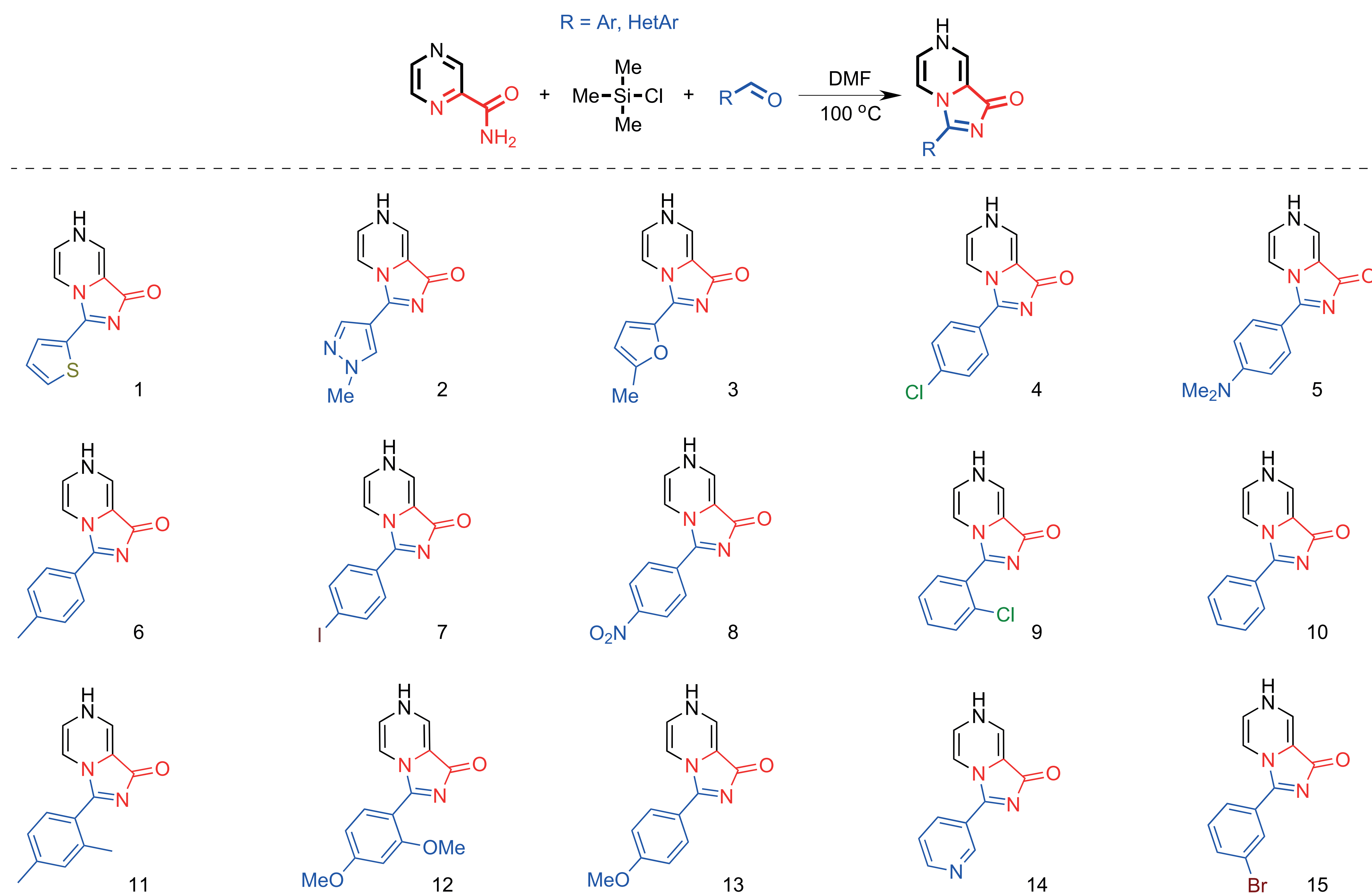


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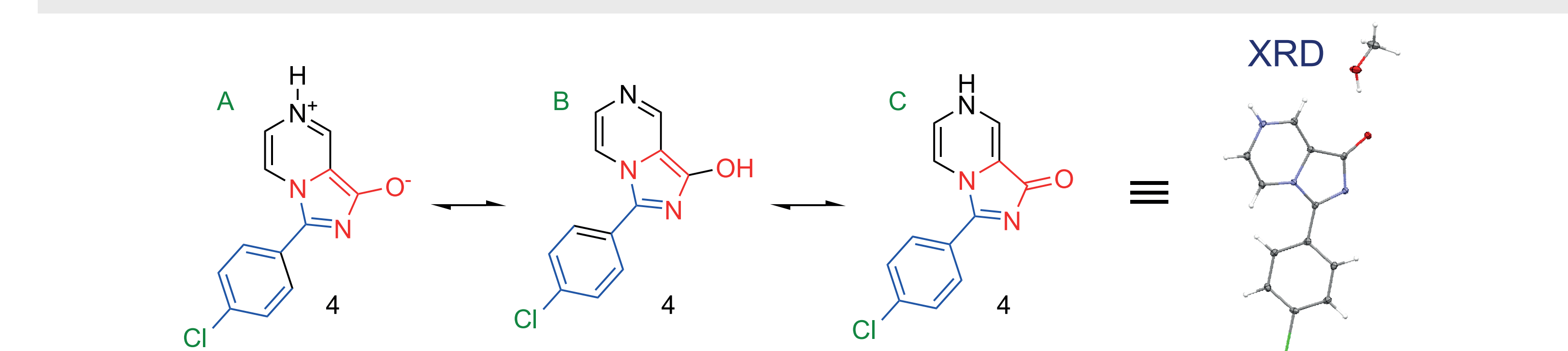
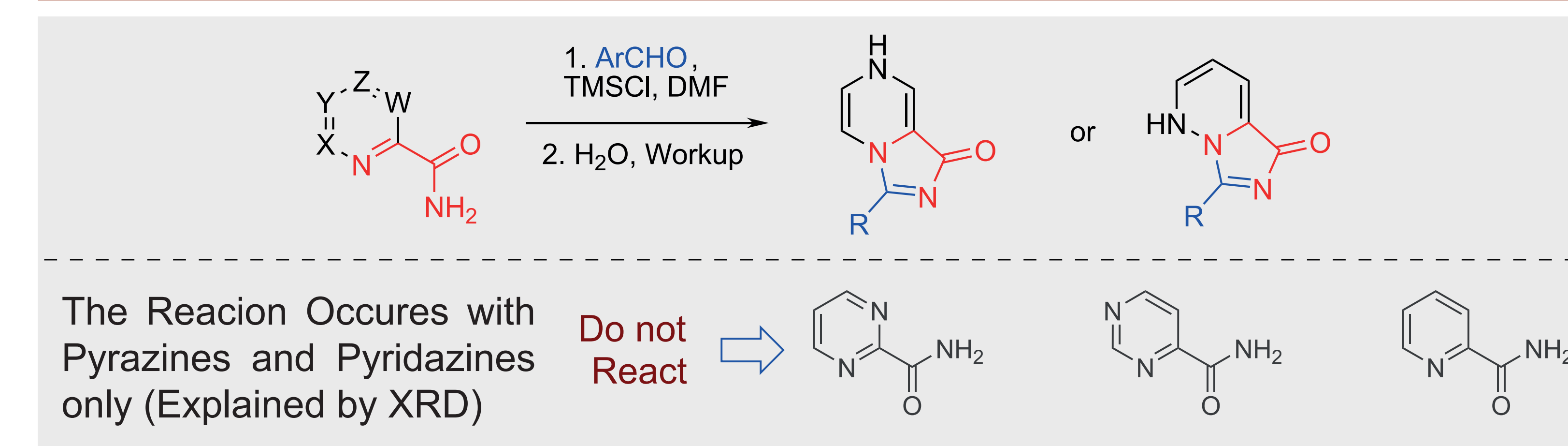
## Background of the project

The reaction of azine carboxamides with aromatic aldehydes was explored in a frame of comprehensive systematic investigation developed in our group TMSCl-DMF water scavenging system. It appeared that in the case of pyrazine-2-carboxamide and pyridazine-3-carboxamide, an unprecedented reaction pathway led to fused imidazole derivatives, whose structure was unambiguously proved by X-ray. The reaction proceeds in high preparative yields using various (hetero)aromatic aldehydes stable towards acidic media formed in the TMSCl-DMF system.

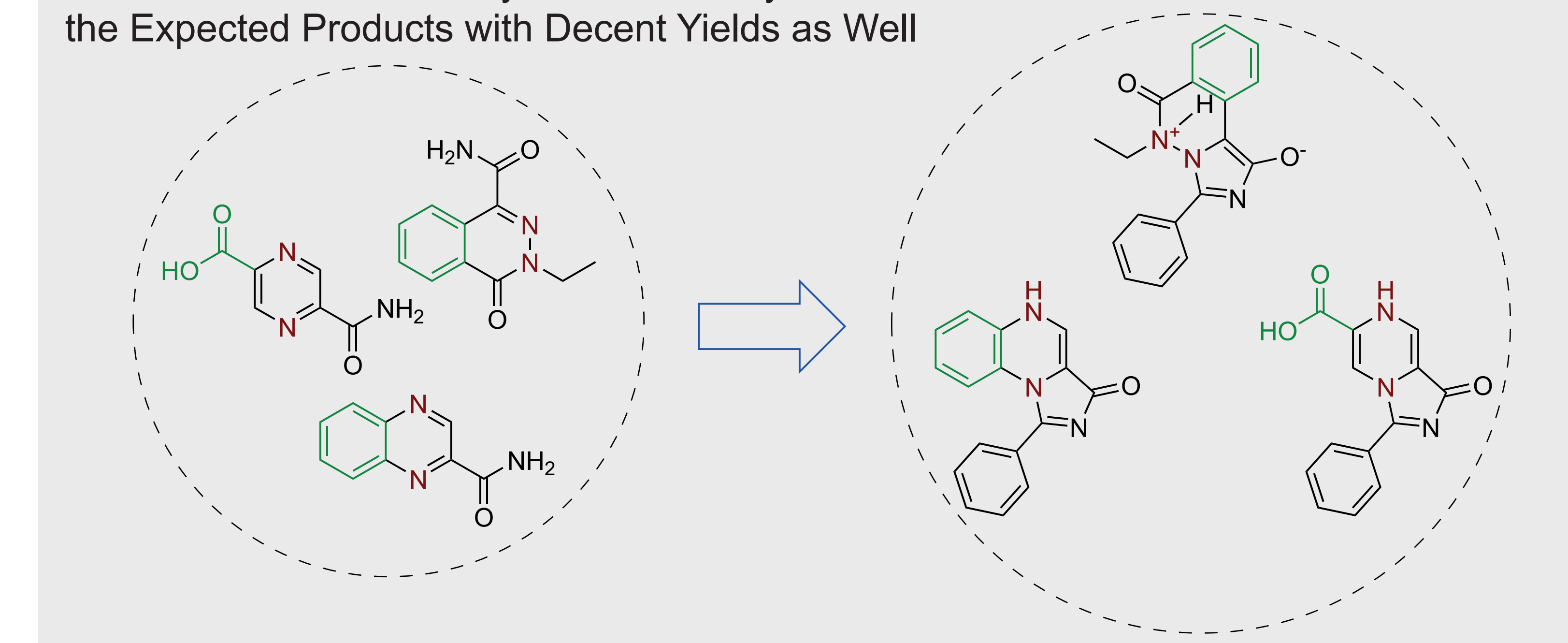
## Synthesis and Scope of Imidazo[1,5-a]pyrazin-1-ols



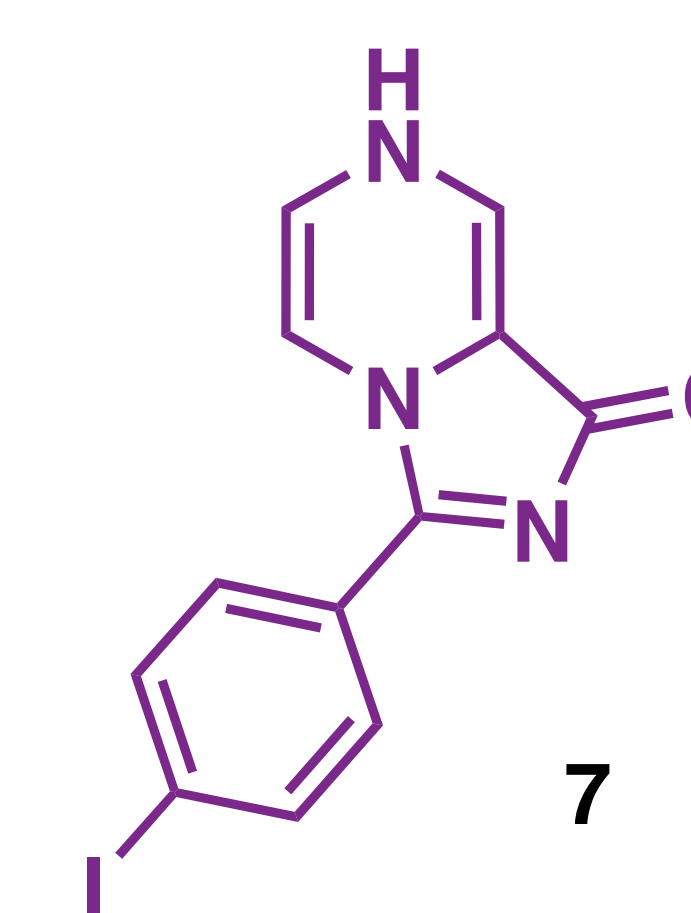
## Synthesis of Novel Pyridazine Derivatives



Fused and Substituted Pyrazines and Pyridazines Yield the Expected Products with Decent Yields as Well



## Solvatochromic properties of Imidazo[1,5-a]pyrazin-1-ols



All the compounds possess solvatochromic properties. The illustrative photo exemplifies compound 9

## Contact

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