

## ***Supporting Information***

# **A Nitrogen-assisted One-pot Heteroaryl Ketone Synthesis from Carboxylic Acids and Heteroaryl Halides**

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## 1. $^1\text{H}$ and $^{13}\text{C}$ NMR spectra

<i>Compound</i>	<i><math>^1\text{H}</math> and <math>^{13}\text{C}</math> NMR spectra in DMSO-<math>d_6</math></i>
<b>9a</b>	.S4–S5
<b>9b</b>	.S6
<b>9e</b>	.S7–S8
<b>9f</b>	.S9–S10
<b>9g</b>	.S11–S12
<b>9h</b>	.S13–S14
<b>9i</b>	.S15–S16
<b>11a</b>	.S17–S18
<b>11b</b>	.S19–S20
<b>11c</b>	.S21–S22
<b>11d</b>	.S23–S24
<b>11e</b>	.S25–S26
<b>11f</b>	.S27–S28
<b>11g</b>	.S29–S30
<b>11h</b>	.S31–S32
<b>11i</b>	.S33–S34
<b>11j</b>	.S35–S36
<b>11k</b>	.S37–S38
<b>11l</b>	.S39–S40
<b>11m</b>	.S41–S42
<b>11n</b>	.S43–S44

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