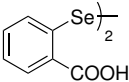


1.  $\text{NaNO}_2$ ,  $\text{HCl}$

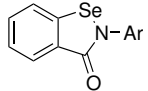
2.  $\text{Na}_2\text{Se}_2$ ,  $\text{NaOH}$



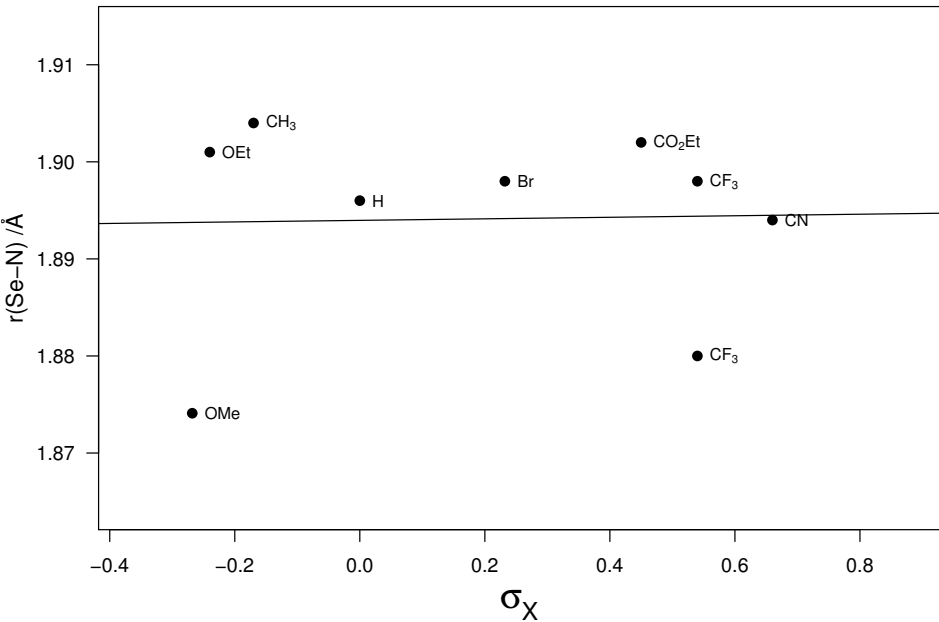
**5**

1.  $\text{SOCl}_2$ , cat.  $\text{DMF}$

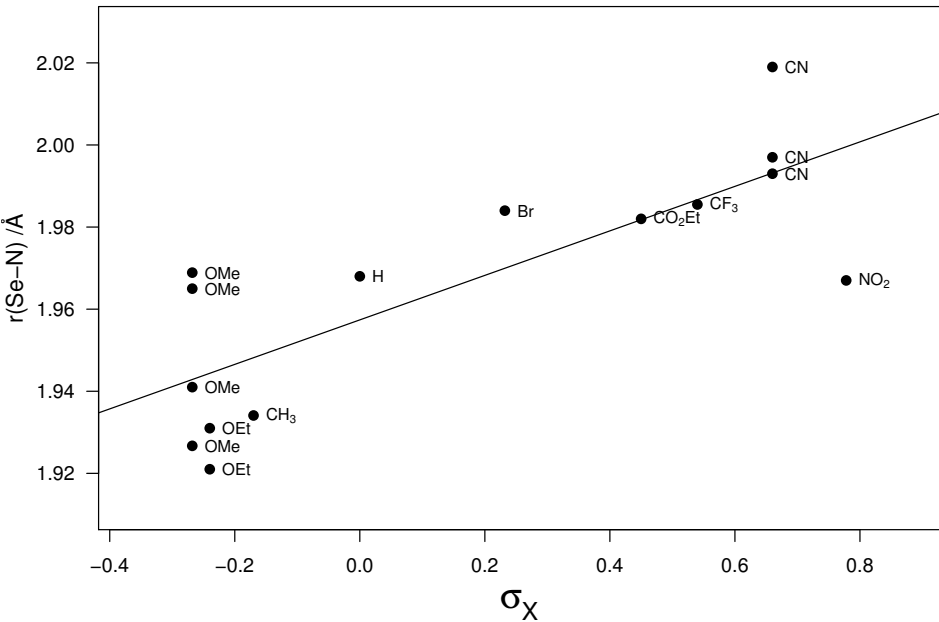
2.  $\text{Ar-NH}_2$ ,  $\text{TEA}$

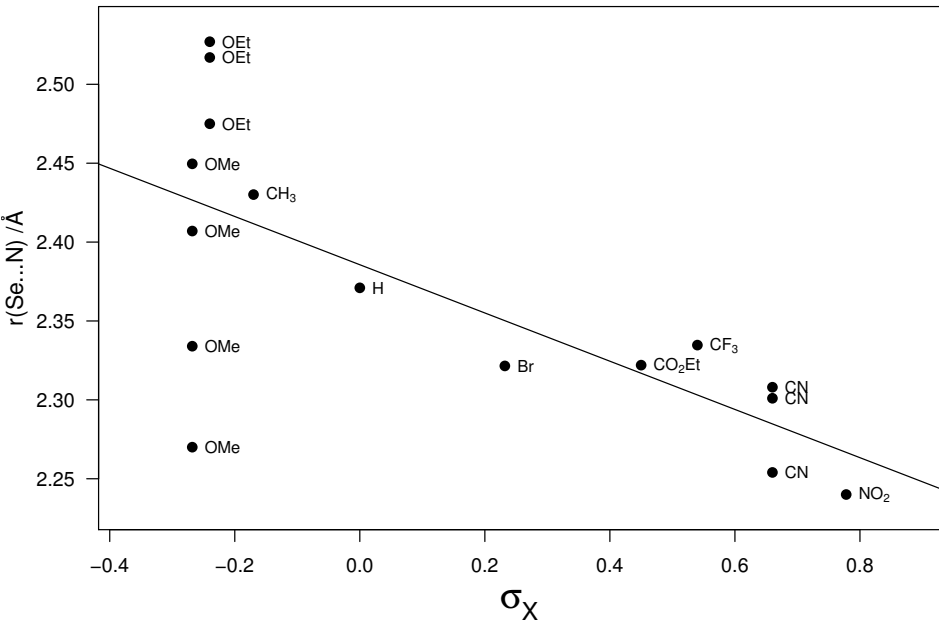


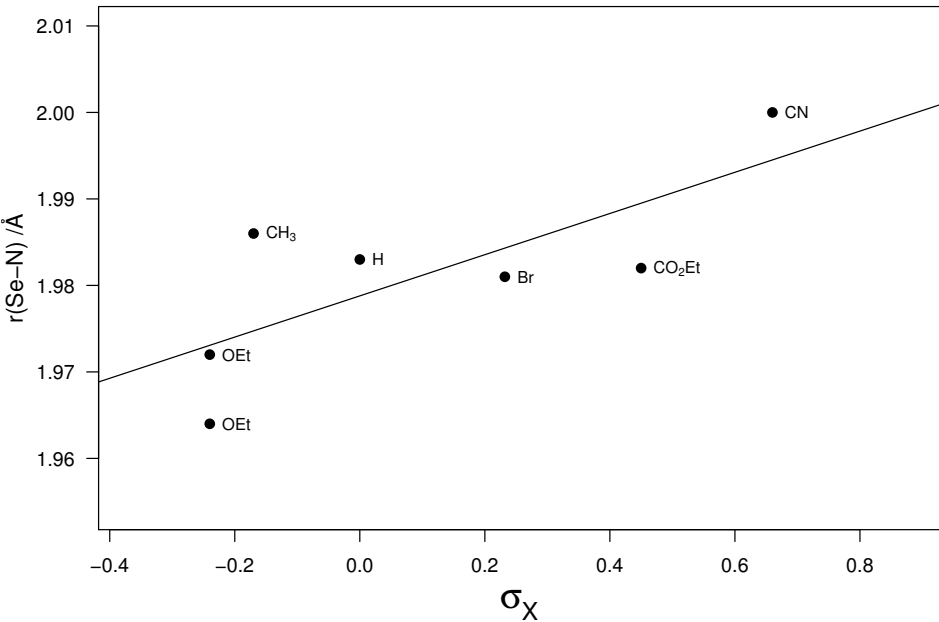
**1 and 1NO<sub>2</sub>, CN, CF<sub>3</sub>, Br, CO<sub>2</sub>Et**

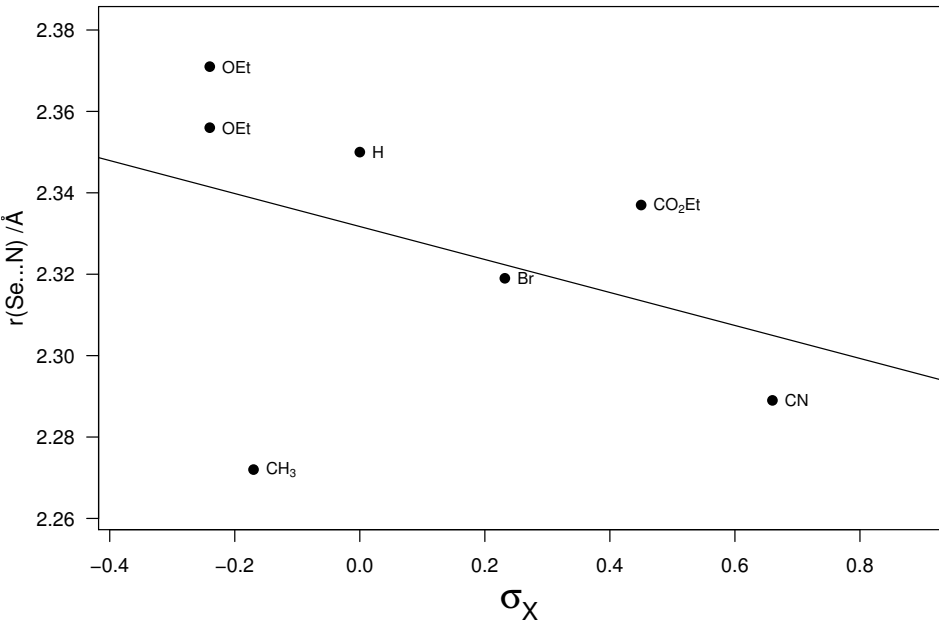


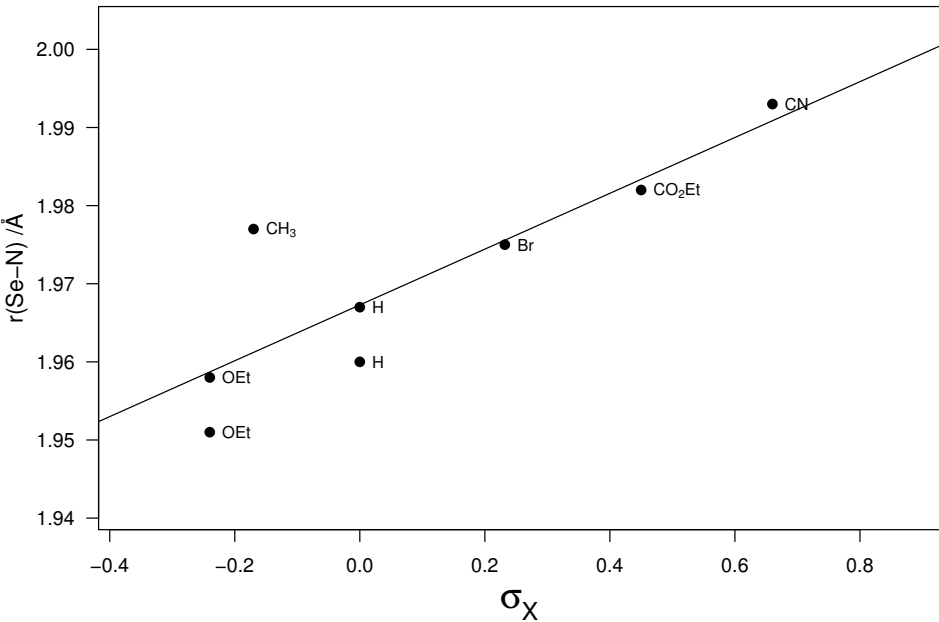


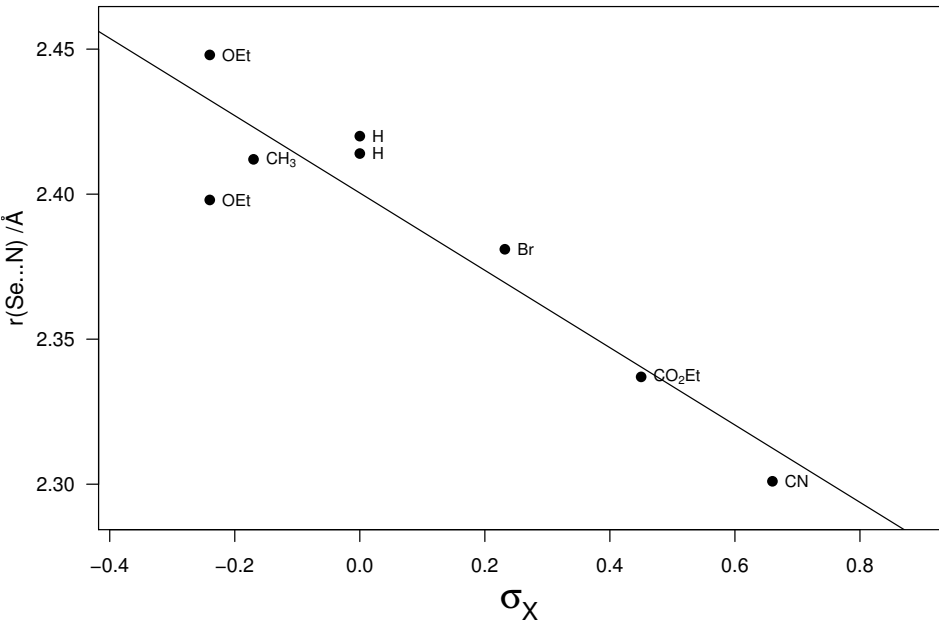


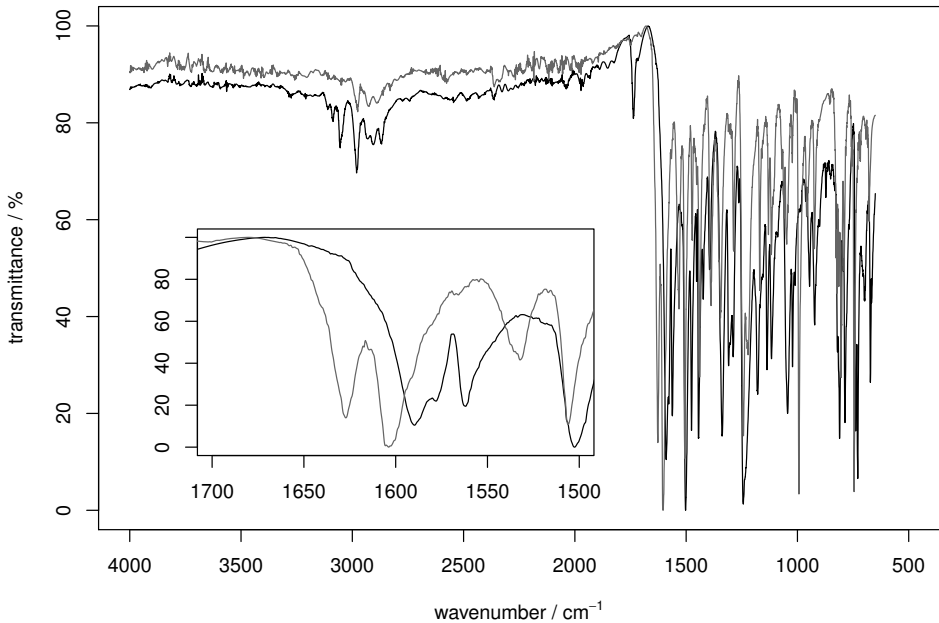


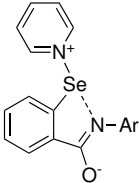
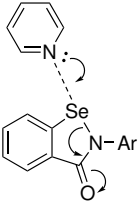




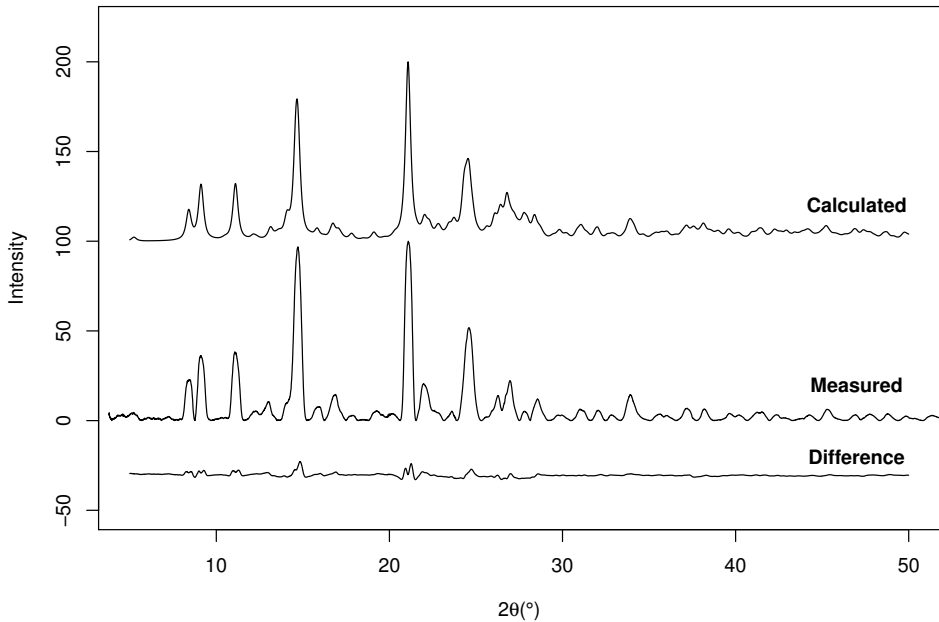


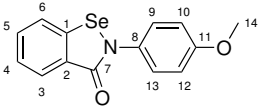
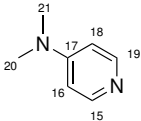


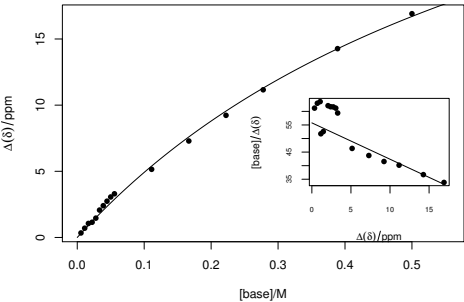


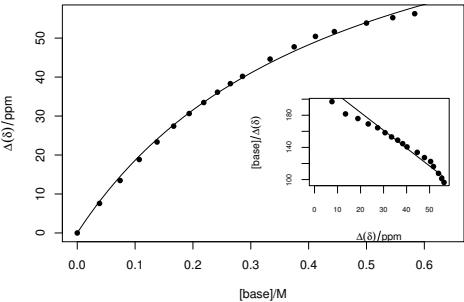


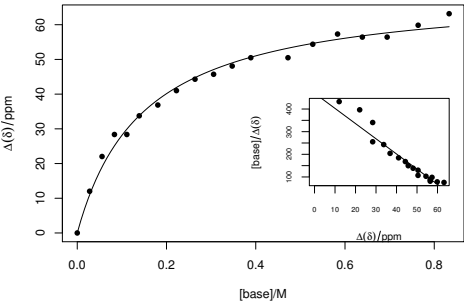


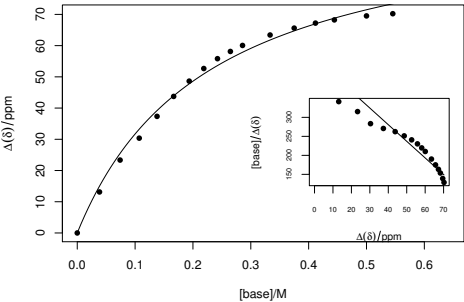


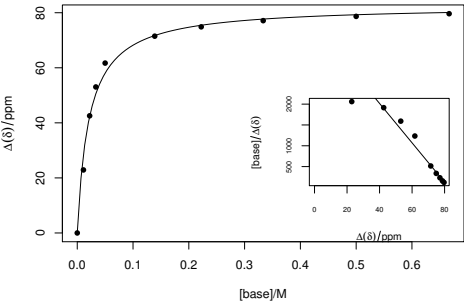


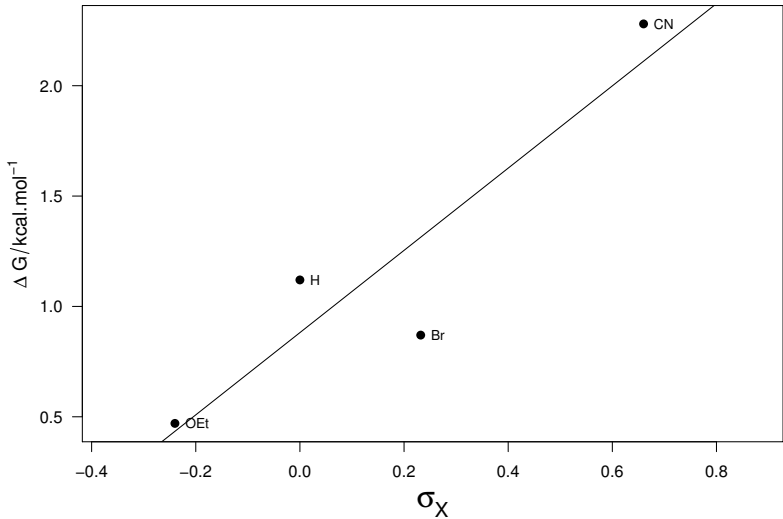




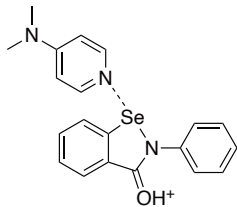






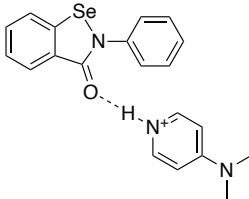




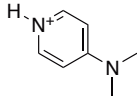


$m/z$ : 398.08

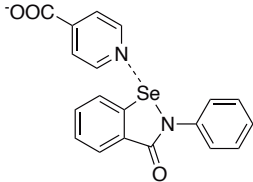
or



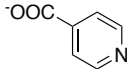
$m/z$ : 398.08



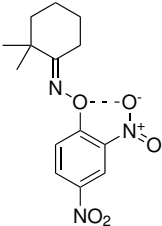
$m/z$ : 123.09



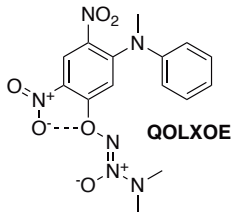
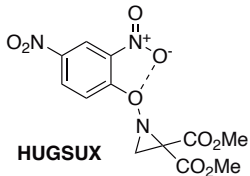
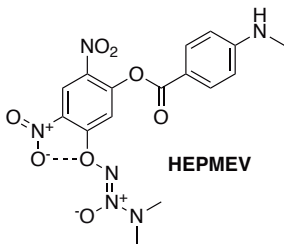
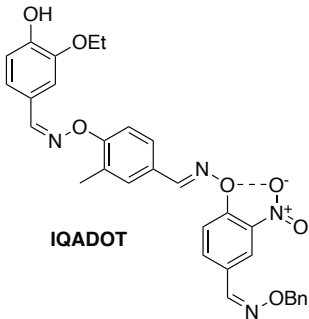
m/z: 397.01

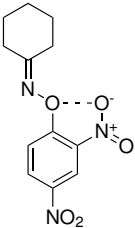


m/z: 122.02

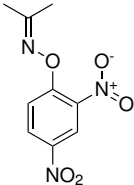


**7**

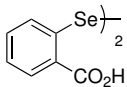




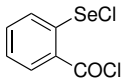
**8**



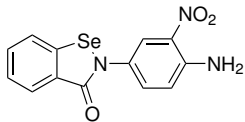
**9**



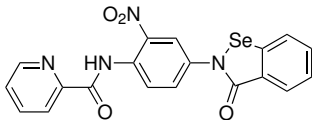
**5**



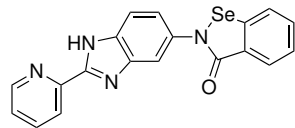
**6**



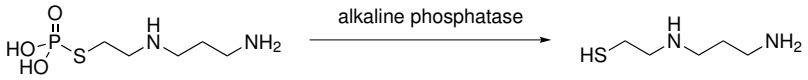
**14**

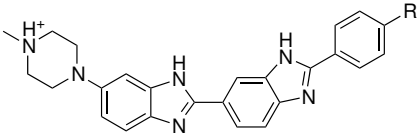


**13**



**11**



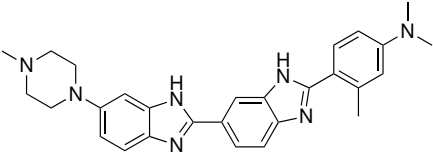


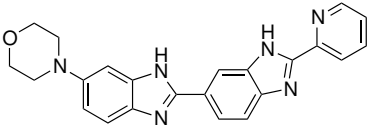
Hoechst 33258 R: OH

Hoechst 33342 R:  $\text{OCH}_2\text{CH}_3$

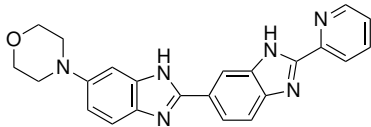
Hoechst 34580 R:  $\text{N}(\text{CH}_3)_2$



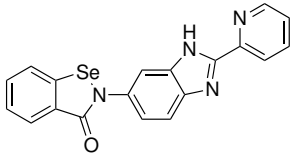




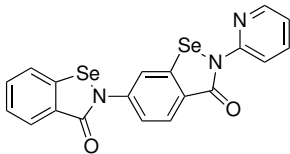
**10**



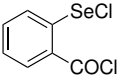
**10**



**11**

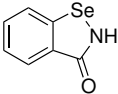


**12**

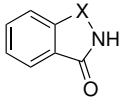


**6**

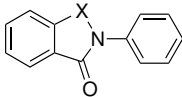
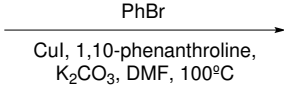
$\text{NH}_3$  (aq)



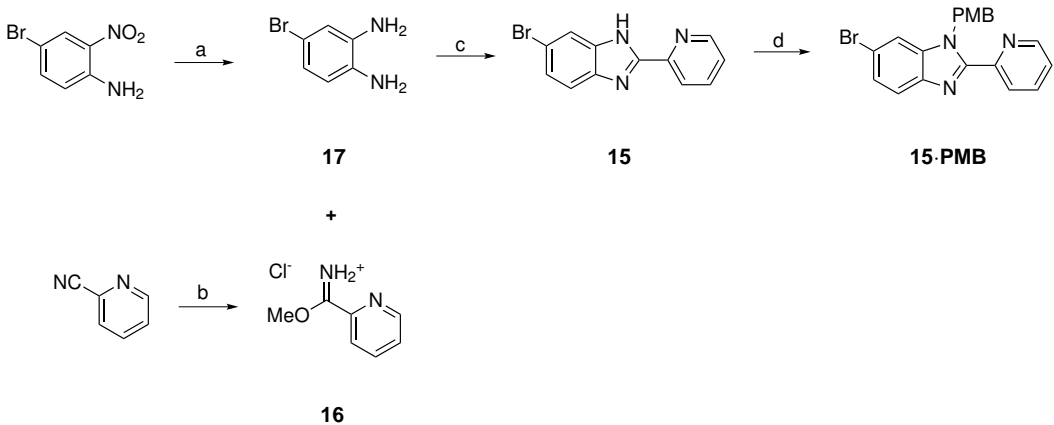
**1c**

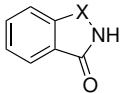


**1c**

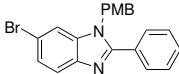


**1**



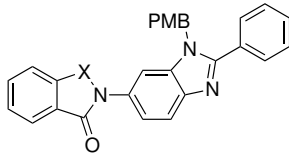


**1c**

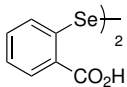


**18-PMB**

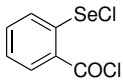
CuI, 1,10-phenanthroline,  
K<sub>2</sub>CO<sub>3</sub>, DMF, 100°C



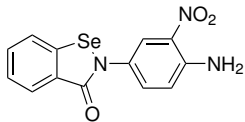
**19a**



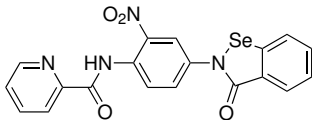
**5**



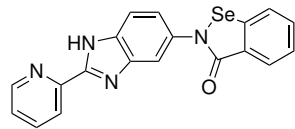
**6**



**14**



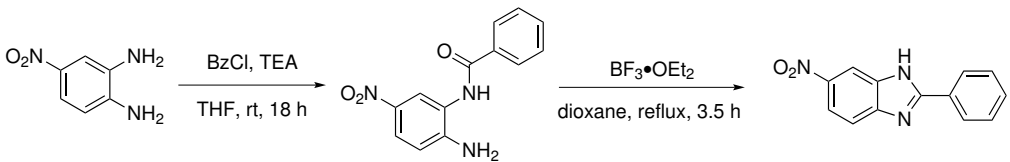
**13**



**11**

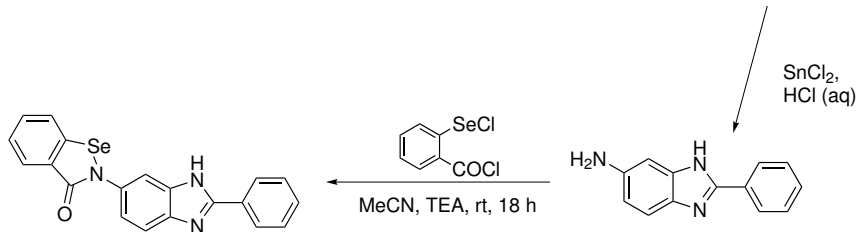






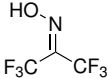
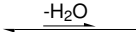
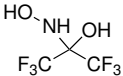
**21**

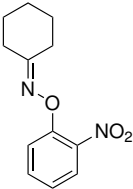
**22**



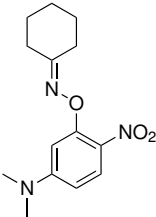
**11**

**23**

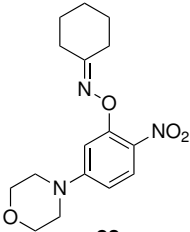




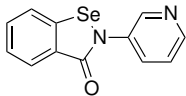
26



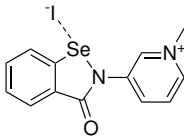
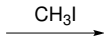
**27**



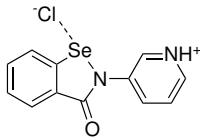
**28**



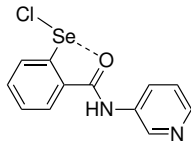
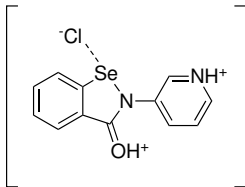
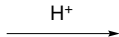
**1d**



**1e**



**1f**



**29**