Supplementary Material

Figure S1. $^{77}$Se-NMR spectra of pure diaryl selenide 16 in DMSO-$d_6$.

Figure S2. ESI-Mass spectrum of compound 16. ESI-MS ($m/z$) Calcd, C$_{26}$H$_{22}$N$_4$O$_2$Se: 502.4, found: 525.1 [M + Na]$^+$. 
Figure S3. $^1$H-NMR spectra of pure spirodiazaselenurane 30 in CDCl$_3$.

Figure S4. $^{13}$C-NMR spectra of pure spirodiazaselenurane 30 in DMSO-$d_6$.

Figure S5. $^{77}$Se-NMR spectra of pure spirodiazaselenurane 30 in DMSO-$d_6$. 
Figure S6. ESI-Mass spectrum of compound 30. ESI-MS (m/z) Calcd, C_{26}H_{20}N_{2}O_{4}Se: 503.4, found: 523.1 [M + Na]^+.

Figure S7. $^1$H-NMR spectra of pure spirodiazaselenurane 34 in CDCl$_3$. 
Figure S8. $^{13}$C-NMR spectra of pure spirodiazaselenurane 34 in CDCl$_3$.

Figure S9. $^{77}$Se-NMR spectra of pure spirodiazaselenurane 34 in CDCl$_3$. 
**Figure S10.** ESI-Mass spectrum of compound 34. ESI-MS, (m/z) Calcd, C_{22}H_{26}N_{2}O_{4}Se: 462.4, found: 487.0 [M + Na]^+.

**Figure S11.** ^1^H-NMR spectra of pure spirodiazaselenurane 35 in CDCl₃.
**Figure S12.** $^{13}$C-NMR spectra of pure spirodiazaselenurane 35 in CDCl$_3$.

**Figure S13.** ESI-Mass spectrum of compound 35. Calcd, C$_{26}$H$_{36}$N$_4$O$_2$Se: 516.0, found: 517.1 [M + H]$^+$. 
Figure S14. $^{77}$Se-NMR spectrum of the diaryl selenide 16 with 1 equiv of H$_2$O$_2$ in CH$_2$Cl$_2$. Formation of selenoxide 23 and spirodiazaselenurane 30 were observed.

Figure S15. $^{77}$Se-NMR spectrum of the monoselenide 36 with 1 equiv of H$_2$O$_2$ in CH$_2$Cl$_2$. Formation of the selenoxide 37 was observed.
Figure S16. $^{77}$Se-NMR spectrum of the diaryl selenide 16 with excess of ONOO$^-\$ in CH$_2$Cl$_2$. Formation of selenoxide 23, spirodiazaselenurane 30 and selenurane oxide 38 were observed.

Figure S18. $^{77}$Se-NMR spectra of pure monoselenide 36 in CDCl$_3$.  

Figure S19. ESI-Mass spectrum of compound 36. ESI-MS ($m/z$) Calcd, C$_{30}$H$_{30}$N$_4$O$_2$Se: 558.1, found: 581.0 [M + Na]$^+$. 
Figure S20. $^1$H-NMR spectra of pure selenoxide 37 in CDCl$_3$.

Figure S21. $^{13}$C-NMR spectra of pure selenoxide 37 in CDCl$_3$. 
Figure S22. $^{77}$Se-NMR spectra of pure selenoxide 37 in CDCl$_3$.

Figure S23. ESI-Mass spectrum of compound 37. ESI-MS (m/z) Calcd, C$_{30}$H$_{30}$N$_4$O$_3$Se: 574.6, found: 575.1.0 [M + H]$^+$. 
Figure S24. $^1$H-NMR spectra of pure selenurane oxides 38 in CDCl$_3$.

Figure S25. $^{13}$C-NMR spectra of pure selenurane oxides 38 in DMSO-$d_6$. 
Figure S26. $^{77}$Se-NMR spectra of pure spirodiazoselenurane 38 in DMSO-$d_6$.

Figure S27. ESI-Mass spectrum of compound 38. ESI-MS ($m/z$) Calcd, C$_{26}$H$_{20}$N$_{4}$O$_{3}$Se: 516.8, found: 537.9 [M + Na]$^+$. 