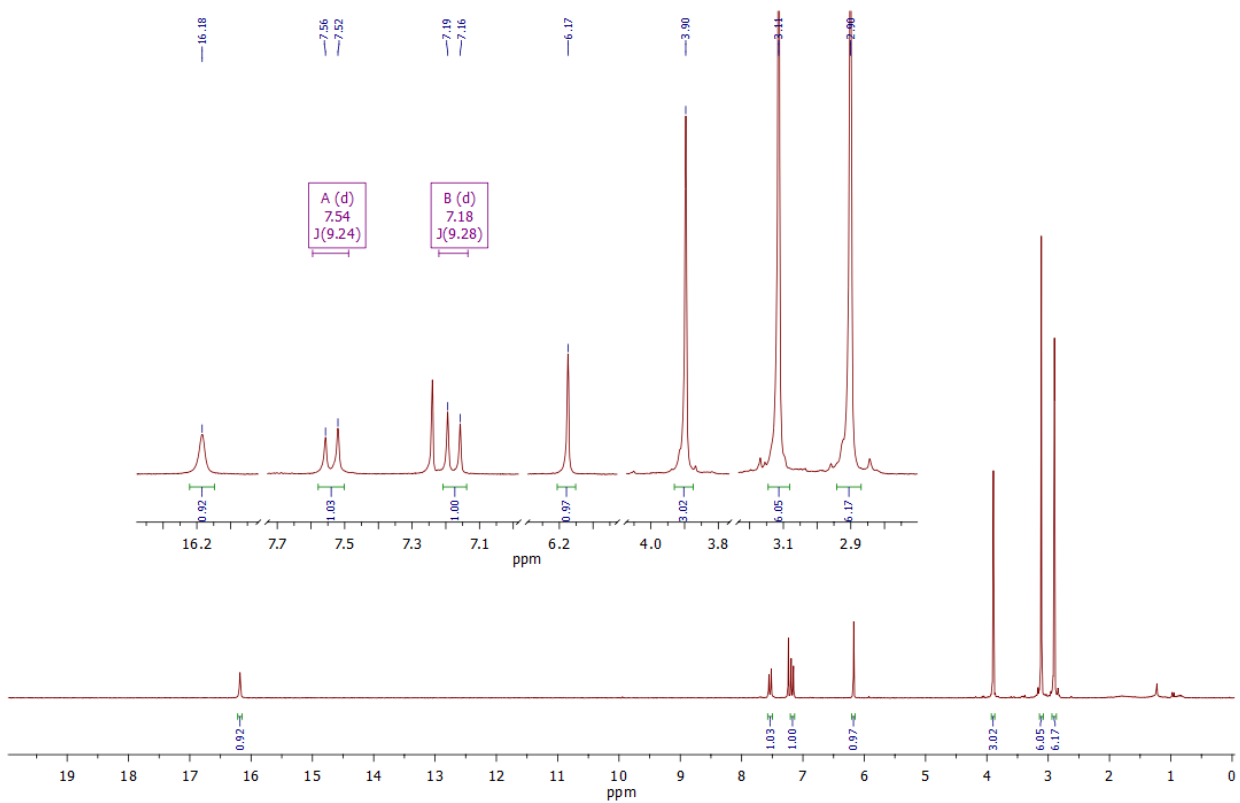


**Nucleophilic substitution of 4-dimethylamino groups in quinoline proton sponges. Stabilization of 4-quinolones in hydroxy form. Synthesis of proton sponge derivative of 8-hydroxyquinoline**

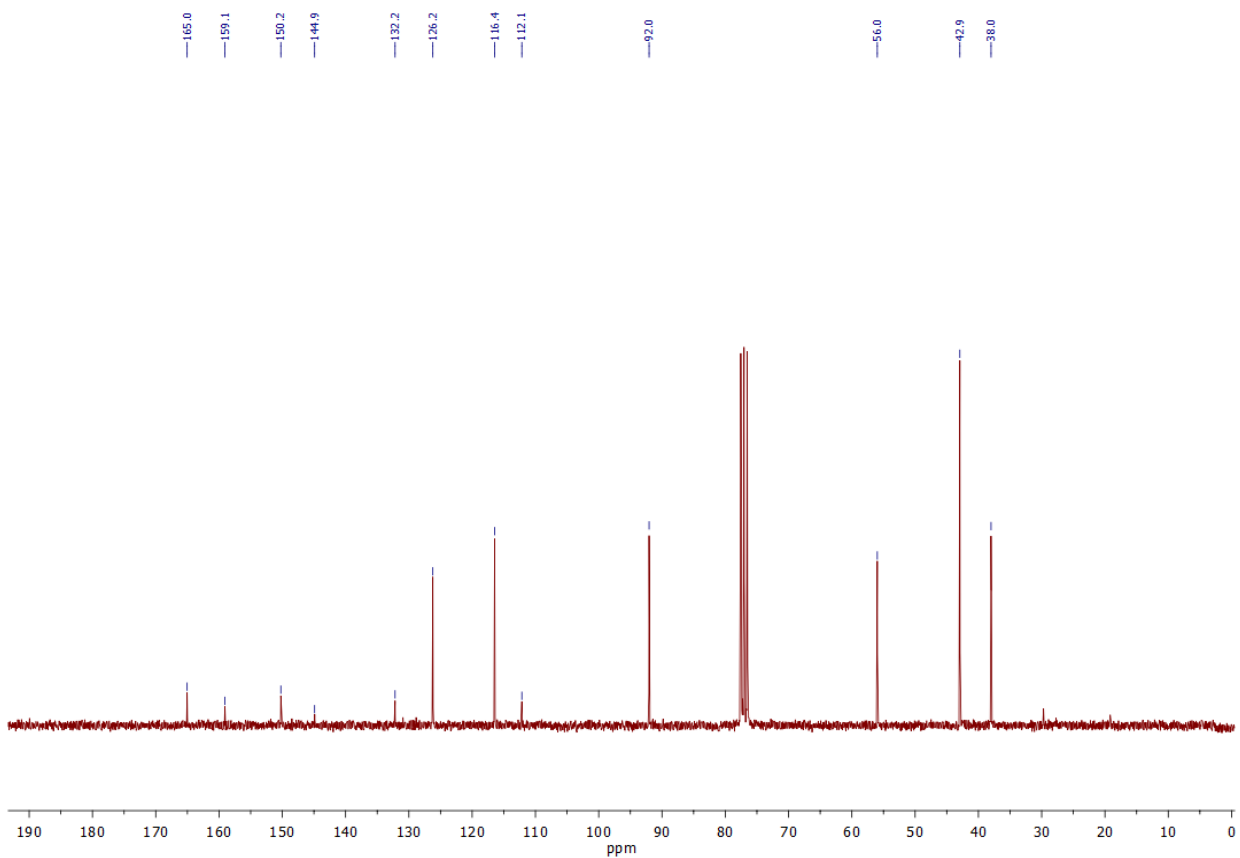
**Olga V. Dyablo<sup>1\*</sup>, Alexander F. Pozharkii<sup>1</sup>**

<sup>1</sup> *Southern Federal University, Zorge St. 7, Rostov-on-Don 344090, Russia;  
e-mail: dyablo@sfedu.ru; apozharskii@sfedu.ru*

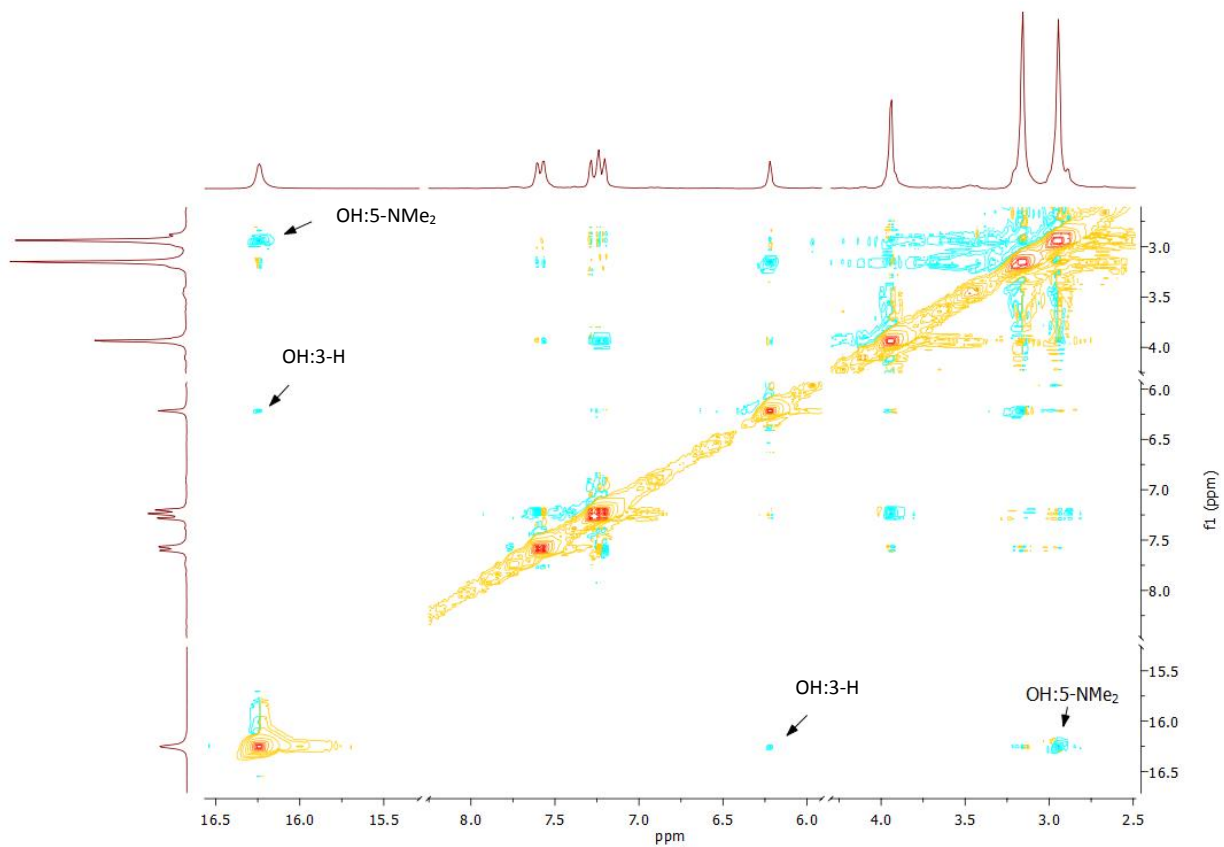
**SUPPLEMENTARY INFORMATION**



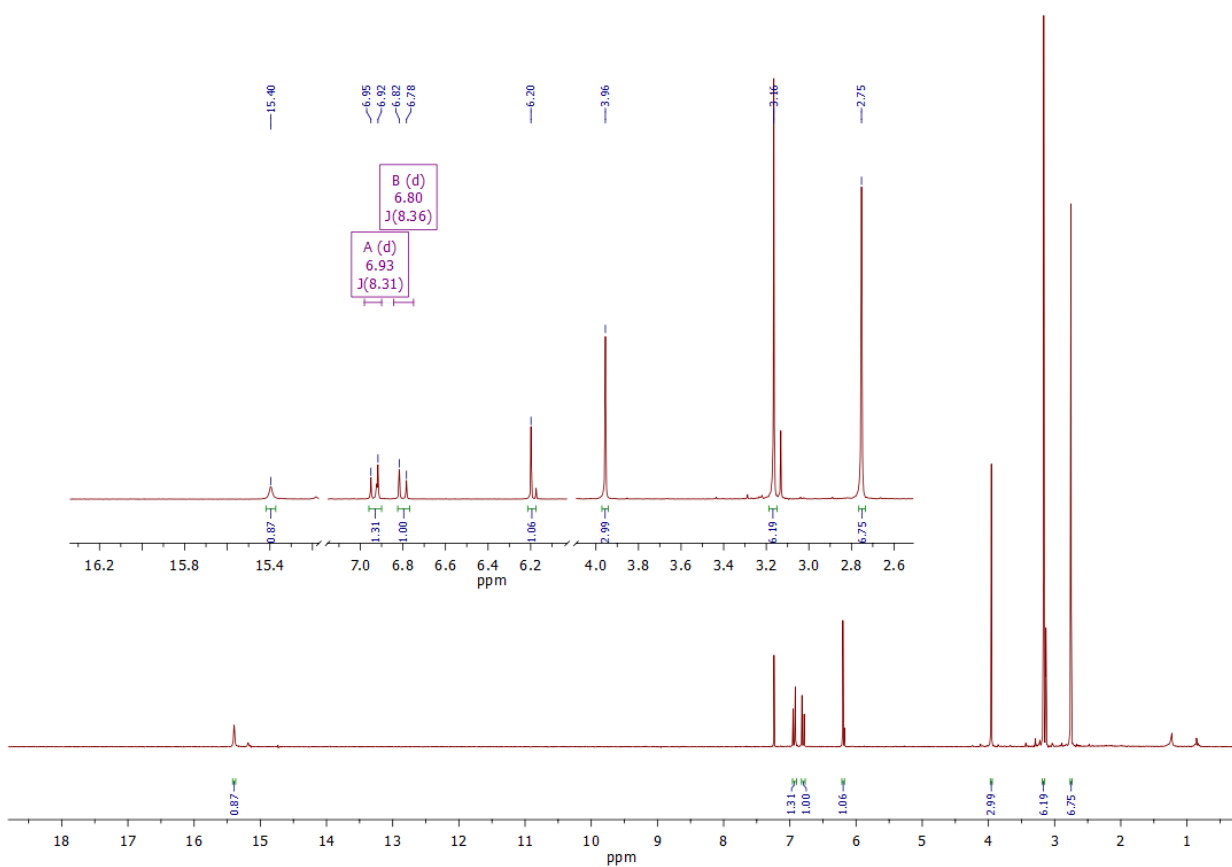
$^1\text{H}$  NMR spectrum of compound **8** ( $\text{CDCl}_3$ , 250 MHz)



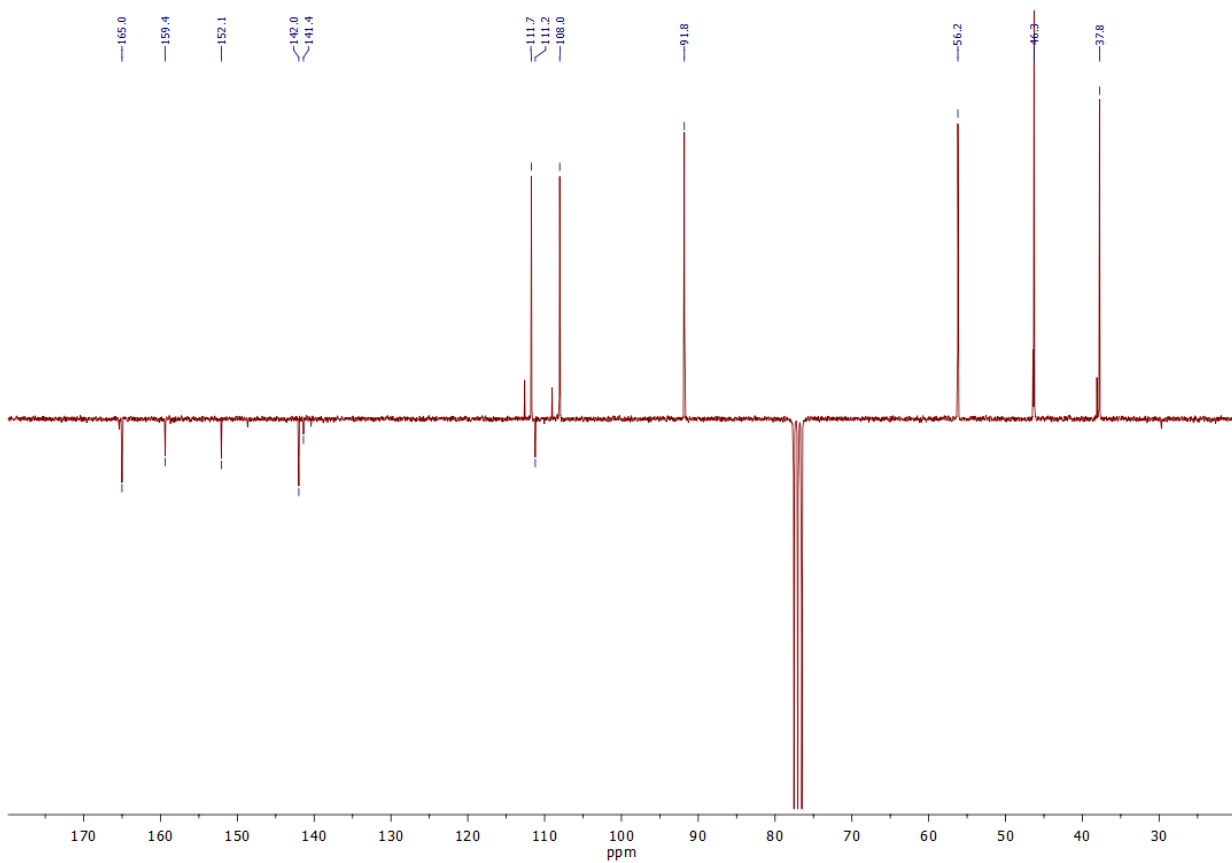
$^{13}\text{C}$  NMR spectrum of compound **8** ( $\text{CDCl}_3$ , 62,9 MHz)



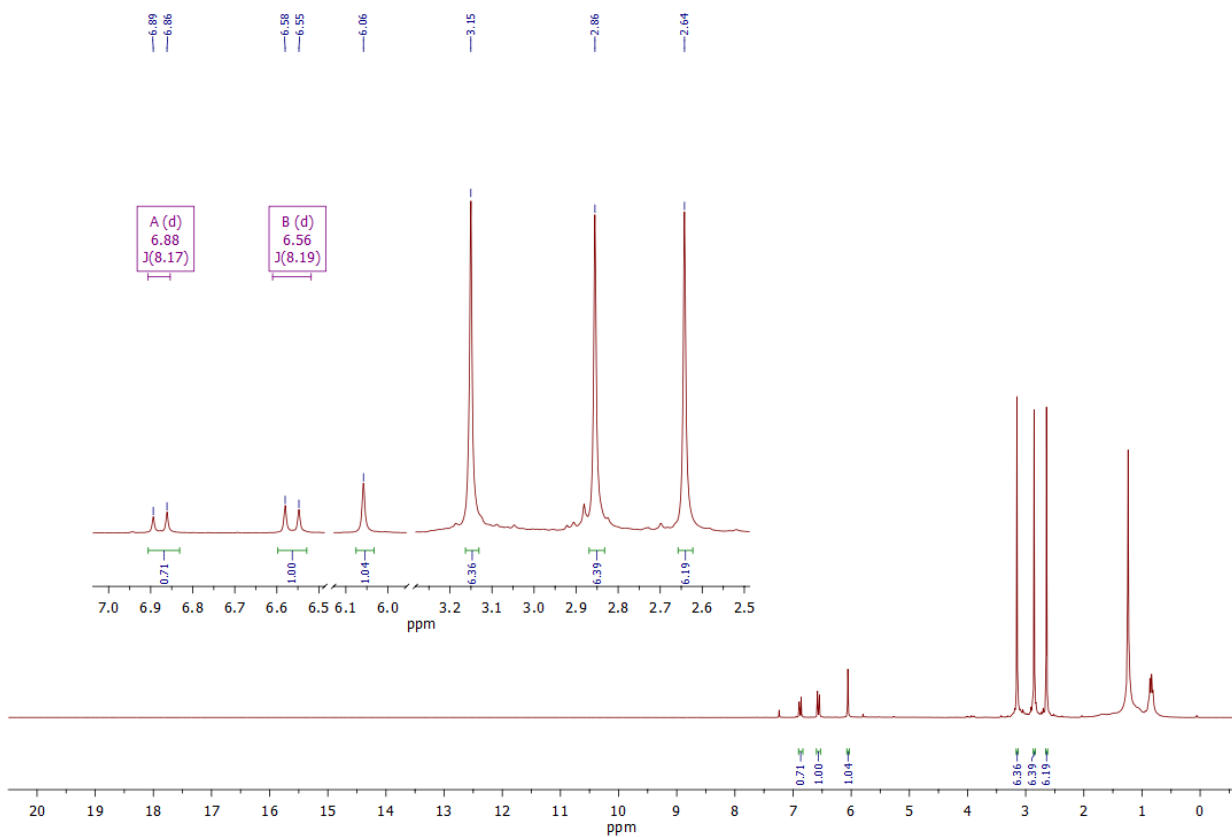
NOESY NMR spectrum of compound **8** (CDCl<sub>3</sub>, 250 MHz)



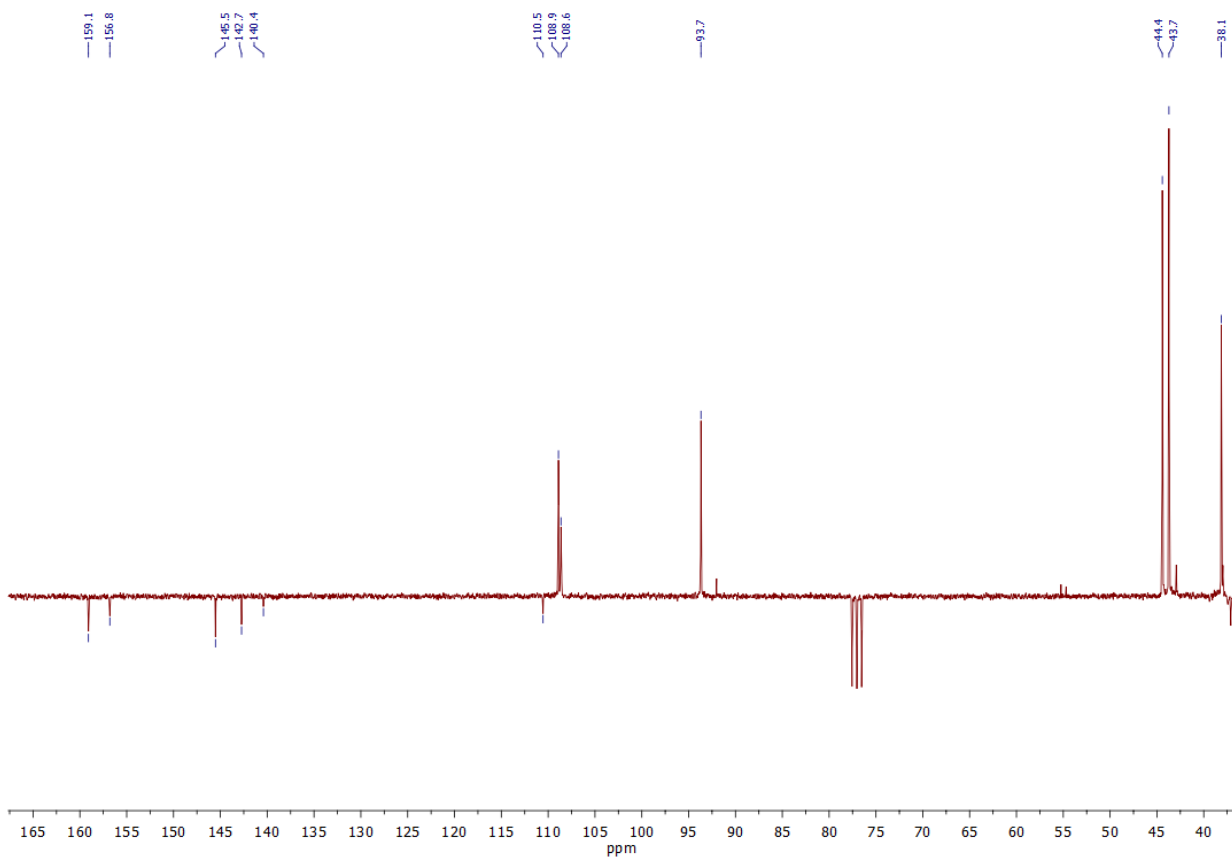
<sup>1</sup>H NMR spectrum of compound **9** (CDCl<sub>3</sub>, 250 MHz)



$^{13}\text{C}$  dept NMR spectrum of compound **9** ( $\text{CDCl}_3$ , 62,9 MHz)



$^1\text{H}$  NMR spectrum of compound **11** ( $\text{CDCl}_3$ , 250 MHz)



$^{13}\text{C}$  dept NMR spectrum of compound **11** ( $\text{CDCl}_3$ , 62,9 MHz)