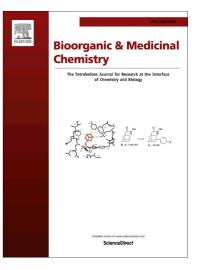
### Accepted Manuscript

New approaches to the synthesis of sildenafil analogues and their enzyme inhibitory activity

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## ACCEPTED MANUSCRIPT

#### **Graphical Abstract**

# New approaches to the synthesis of sildenafil analogues and their enzyme inhibitory activity Mariusz Mojzych<sup>a, \*</sup>, Zbigniew Karczmarzyk<sup>a</sup>, Waldemar Wysocki<sup>a</sup>, Mariangela Ceruso<sup>b</sup>, Claudiu T. Supuran<sup>b, c, \*</sup>, Vladimir Kryštof<sup>d</sup>, Zofia Urbańczyk-Lipkowska<sup>c</sup> and Przemysław Kalicki<sup>e</sup> <sup>a</sup>Department of Chemistry, Siedlce University of Natural Sciences and Humanities, 3 Maja 54, 08-110 Siedlce, Poland <sup>b</sup>Università degli Studi di Firenze, Polo Scientifico, Laboratorio di Chimica Bioinorganica, Rm. 188, Via della Lastruccia 3, 50019 Sesto Fiorentino (Florence), Italy <sup>c</sup>Università degli Studi di Firenze, NEUROFARBA Department, Sezione di Scienze Farmaceutiche e Nutraceutiche, Via Ugo Schiff 6, 50019 Sesto Fiorentino, Florence, Italy <sup>d</sup>Laboratory of Growth Regulators, Faculty of Science, Palacký University & Institute of Experimental Botany AS CR, Šlechtitelů 11, 78371 Olomouc, Czech Republic <sup>e</sup>Institute of Organic Chemistry, Polish Academy of Sciences, Kasprzaka 44/52, 01-224 Warsaw, Poland $\left[ \left( \begin{array}{c} N \cdot N \\ N \neq \downarrow \\ N \neq \downarrow \\ SCH_3 \end{array} \right) \rightarrow \left( \begin{array}{c} N \cdot N \\ N \neq \downarrow \\ SCH_3 \end{array} \right) \right]$ o=\$=0 16 derivatives

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