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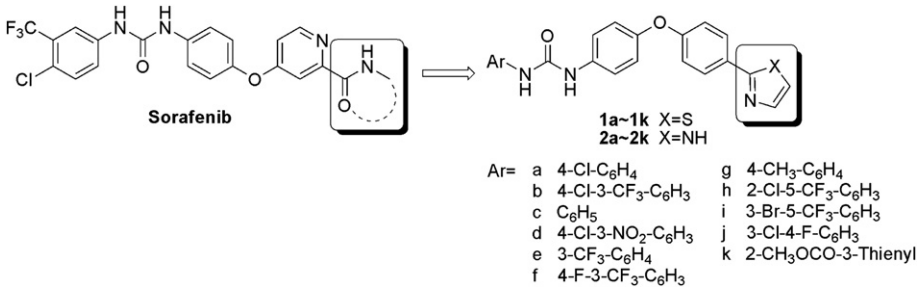

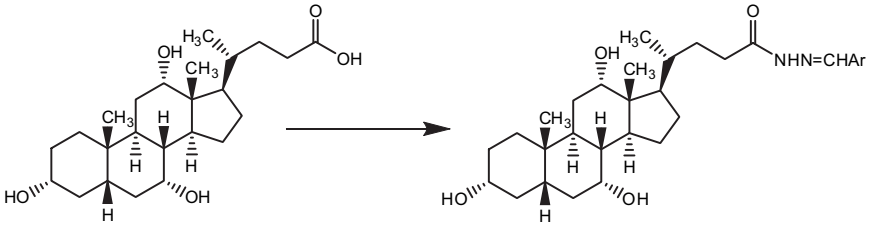

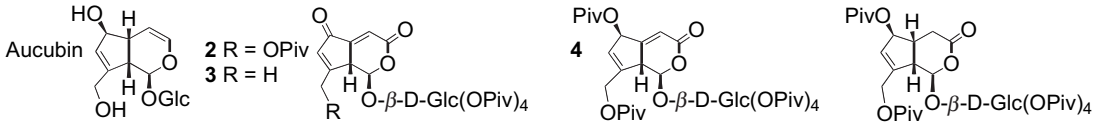

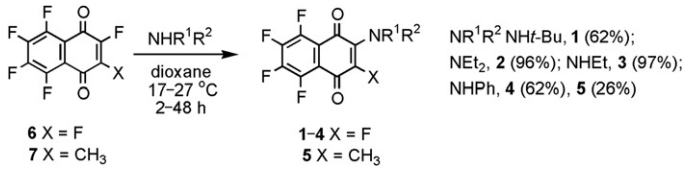

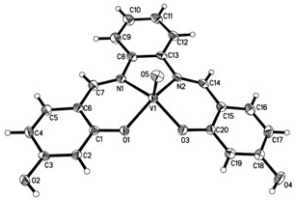

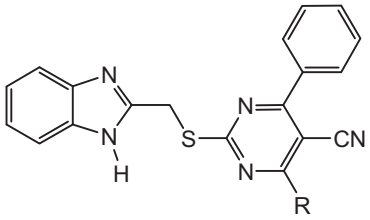

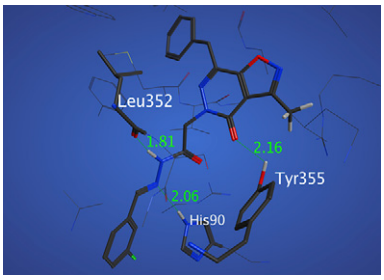

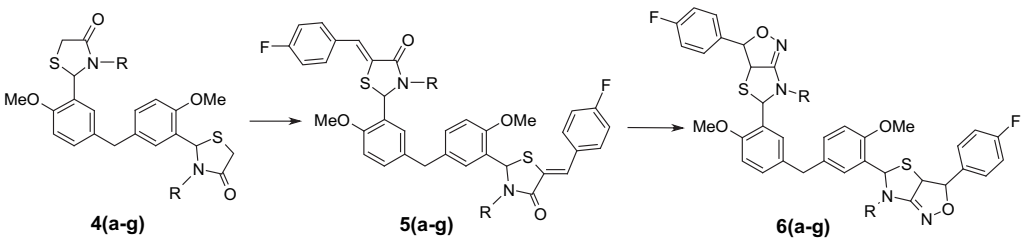

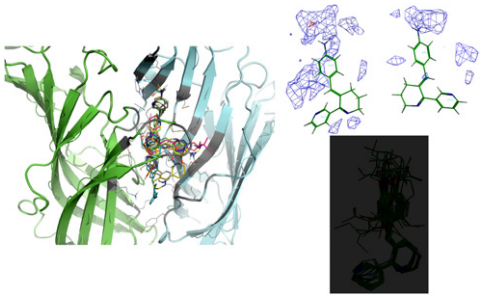

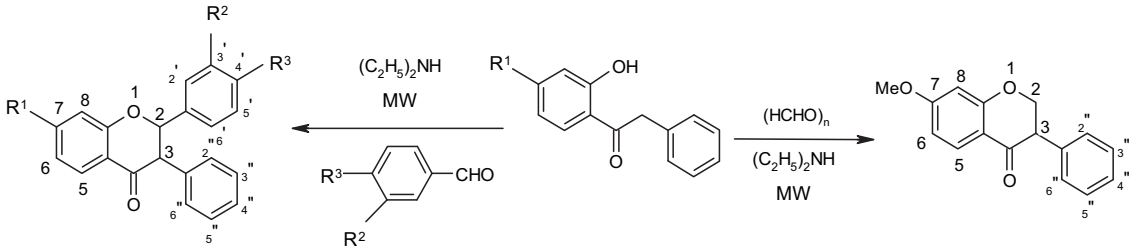

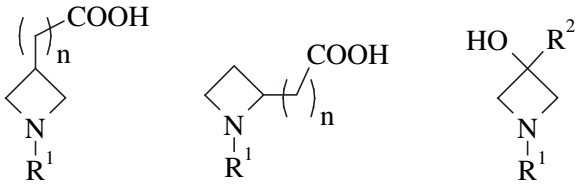

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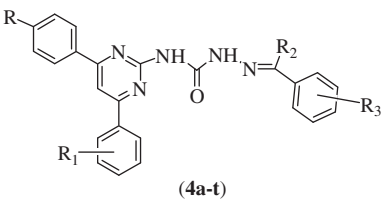
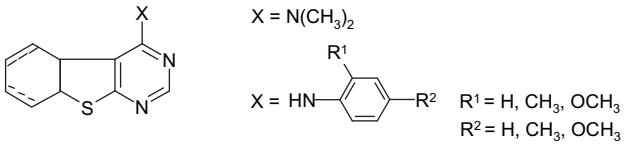
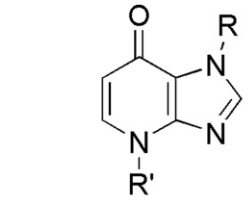
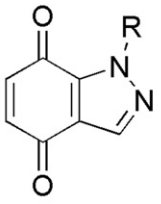


(**4a-t**)

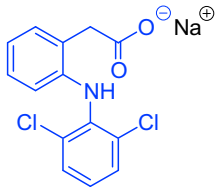




Imidazo[4,5-*b*]pyridin-7-one derivatives (IP)



Indazole-4,7-dione derivatives (ID)



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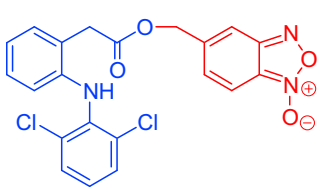

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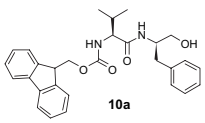
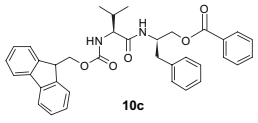
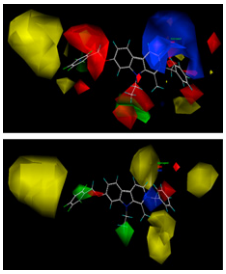


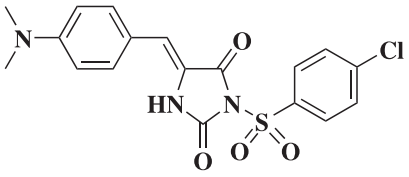
10a



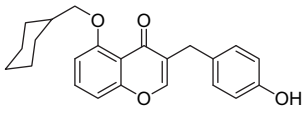
10c

Compound	MDA-MB-231 (IC_{50} µg/ml)
10c : Doxo (1:1)	0.03
10c : Doxo (1:5)	0.23
Doxorubicin	0.43

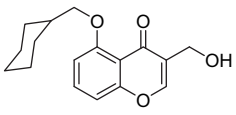




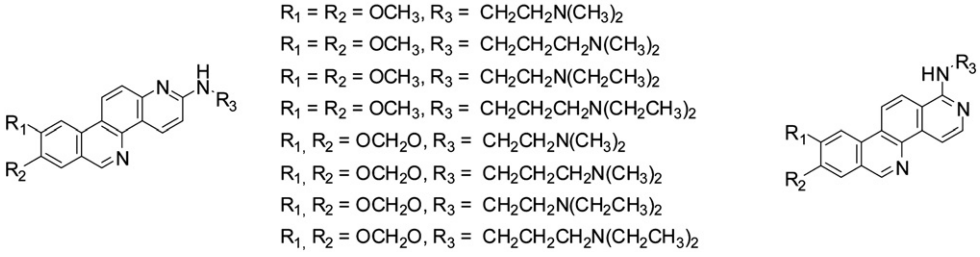
3q
%Inhibition over Melanoma M14
at 10μM = 199.6 %

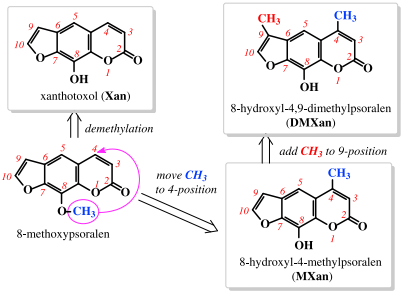


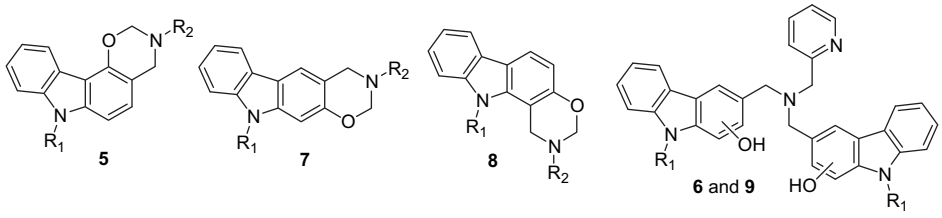
6a
IC_{50} = 3.0 μM

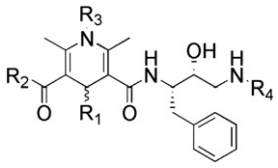


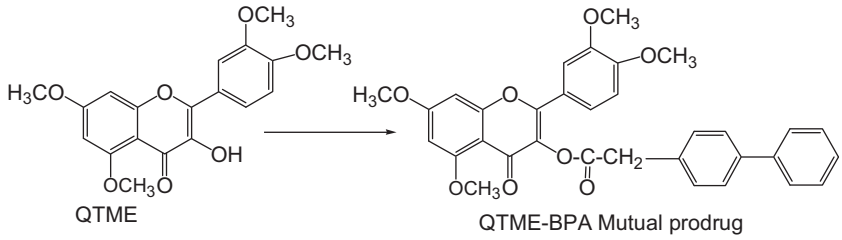
8a
IC_{50} = 7.0 μM



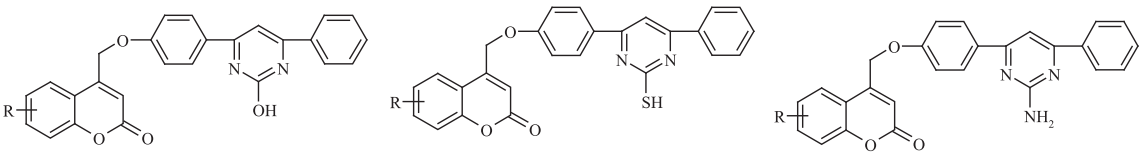






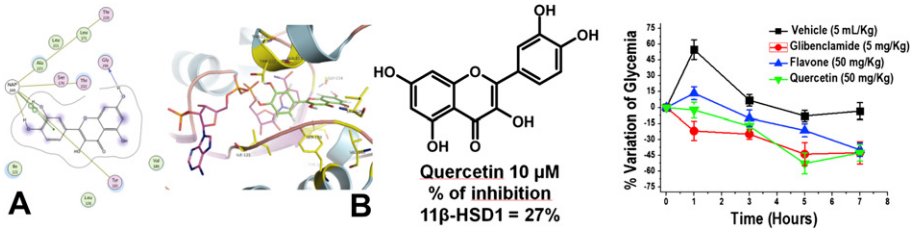


A series of new pyrimidine derivatives were synthesized and evaluated for their *in-vivo* analgesic, anti-pyretic and DNA cleavage studies. Compounds were characterized by spectroscopic studies and elemental analysis.

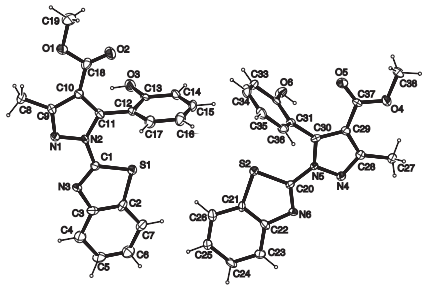


Where, R = a) 6-CH_3, b) 7-CH_3, c) 6-Cl, d) 5,6-Benzo, e) 7,8-Benzo

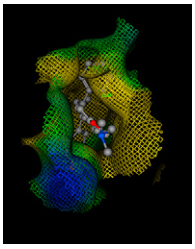
Normoglycemic and STZ-nicotinamide induced diabetic rats were treated with flavone (**1**), 3-hydroxyflavone (**2**), 6-hydroxyflavone (**3**), 7-hydroxyflavone (**4**), chrysin (**5**) and quercetin (**6**) (50 mg/kg). Compounds **1**, **5** and **6** were found most active in both experiments in comparison with control group ($p < 0.05$).

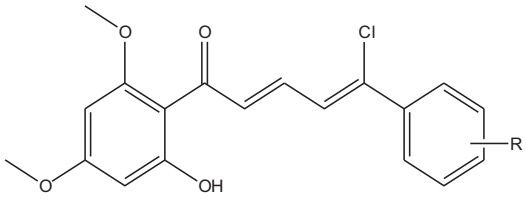


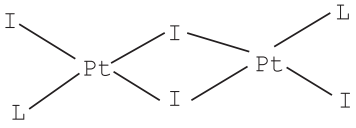
Here we present the synthesis of the new pyrazole ligands obtained in the reaction of 2-methyl-4-oxo-4*H*-chromene-3-carboxylic acid methyl ester with hydrazine derivatives. These ligands create solid complexes with Pt(II), Pd(II) and Cu(II) metal ions or can be cyclized. The crystal and molecular structures of one ligand and its Cu(II) complexes were determined by X-ray diffraction method. Cytotoxic activity of the ligands and their complexes, and modulation of expression of *BAX* and *P53* genes are also shown.



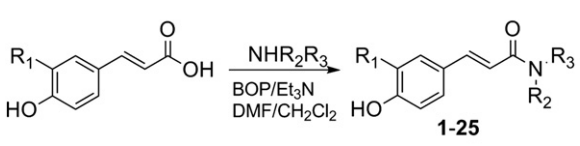
SHORT COMMUNICATIONS







(L= *n*-butylamine, isopropylamine, *m*-toluidine, *p*-toluidine, diethylamine, N-methylaniline and aniline)



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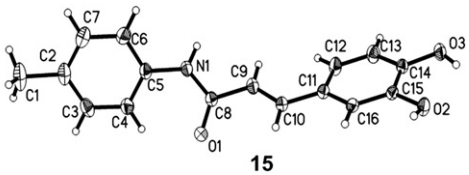

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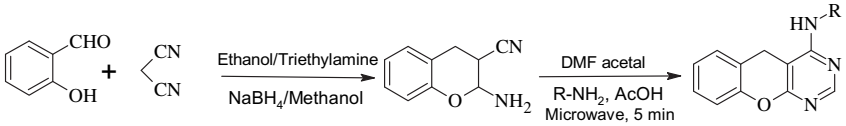
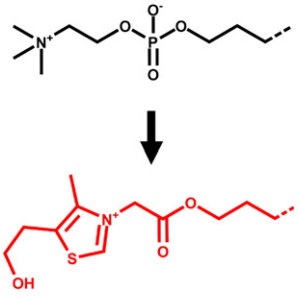
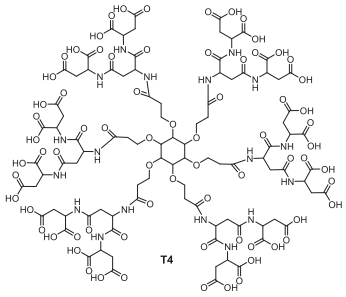


PRELIMINARY COMMUNICATIONS





BOOK REVIEW

COVER

Image of Antibacterial activities of urea and thiourea derivatives of 15-membered azalides in comparison to sulfonylurea analogs. 44/9, P3459-3470 by Mirjana Bukvic¨ Krajačic¨, Predrag Novak, Miljenko Dumic¨, Mario Cindric¨, Hana Čipčic¨ Paljetak and Nedjeljko Kujundžic¨ © 2009 Published by Elsevier Masson SAS

* Corresponding authors.

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