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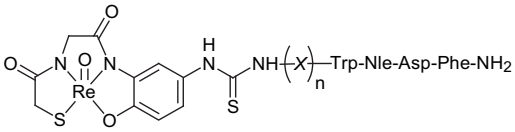
Contents

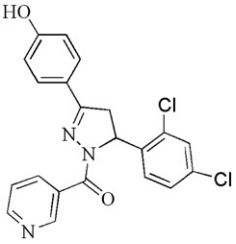
ORIGINAL ARTICLES

In the present study, we demonstrated for the first time the feasibility to develop a CCK4 peptide-based oxorhenium complex which exhibited a nanomolar affinity for CCK2-receptor.

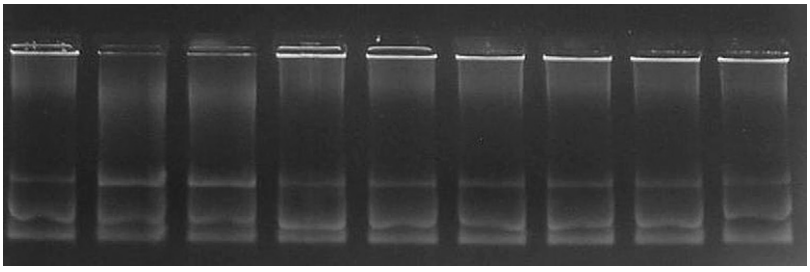
	n	X	EC_{50} (nM)
3-Re	2	β–Ala	22.9
5-Re	2	Ahx	**5.2**

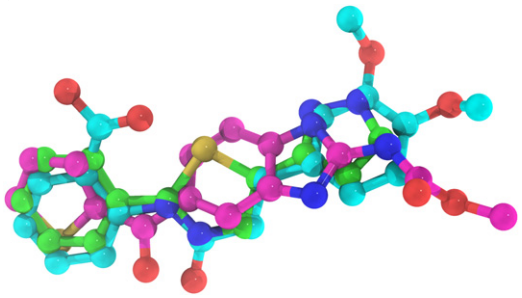


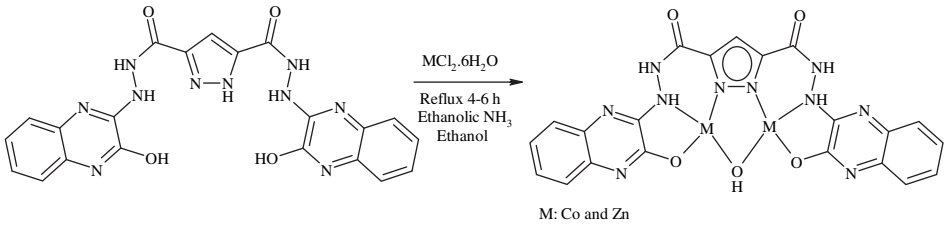
A series of 1,3,5 tri substituted pyrazolines were synthesized and evaluated for *in vitro* and *in vivo* antimalarial efficacy against *P. falciparum* and *P. berghei* respectively.

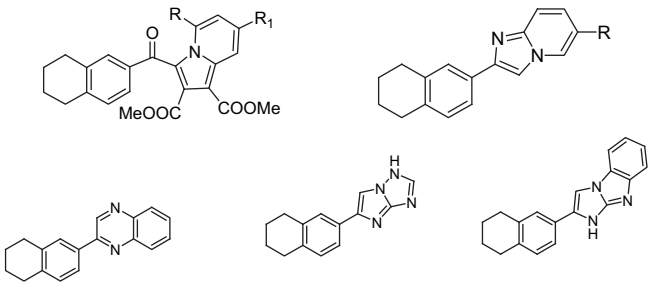


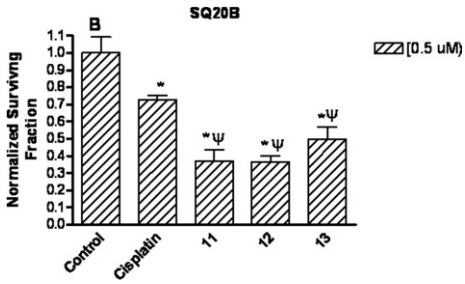
Drug based mixed-ligand complexes of zn(II) with ciprofloxacin and neutral bidantate ligands were synthesized and tested for their antimicrobial activity, and DNA interaction.

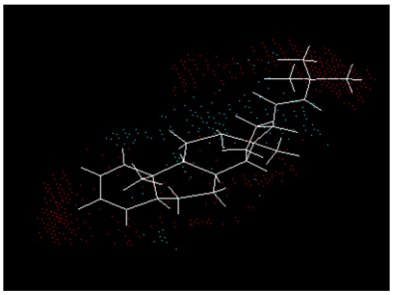


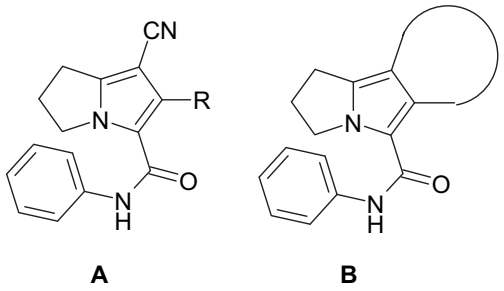


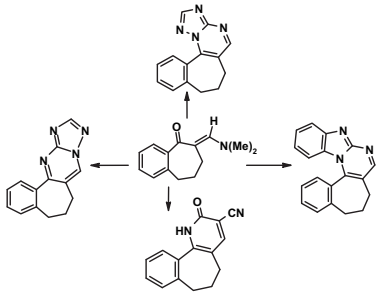


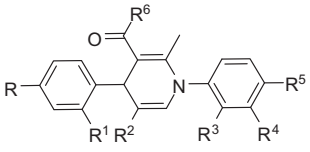


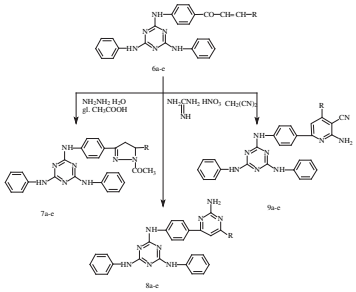


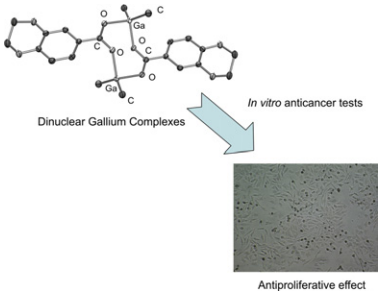


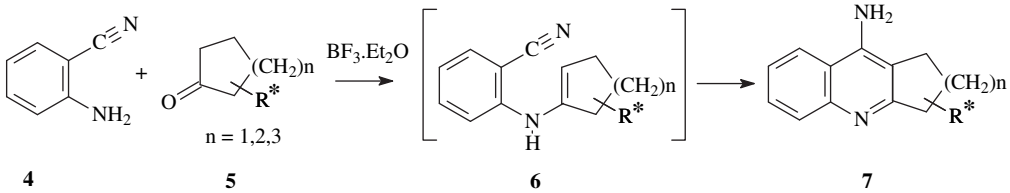


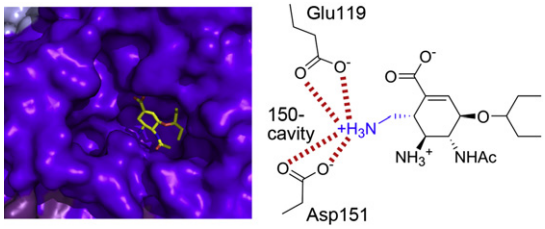


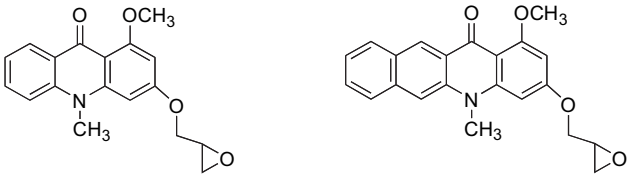


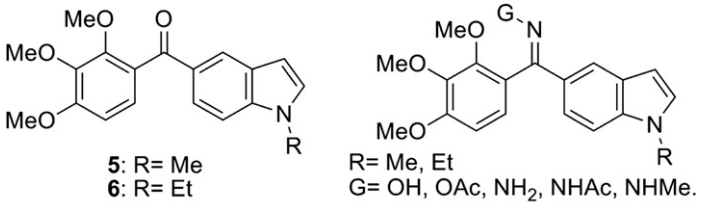






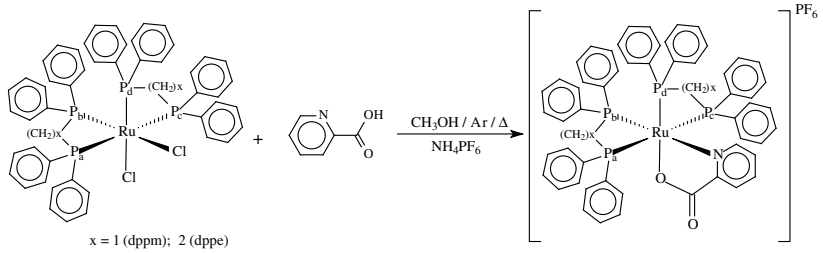






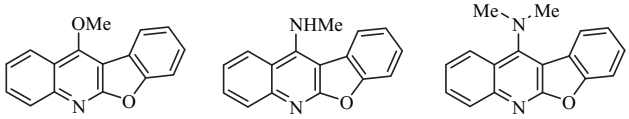
Although usually detrimental for TPI activity and cytotoxicity, the 2,3,4-trimethoxyphenyl arrangement of A-ring produces highly potent ketone **5** (less potent **6**).

Synthesis of *cis*-[Ru(pic)(dppm)$_2$]PF$_6$ (**1**) and *cis*-[Ru(pic)(dppe)$_2$]PF$_6$ (**2**) by reaction of 2-pyridinecarboxylic acid (pic) with ruthenium (II) diphosphine precursors.

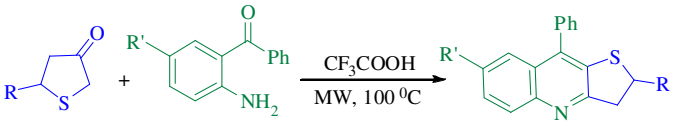


x = 1 (dppm); 2 (dppe)
P_a; P_b; P_c; P_d are the labels for the $^{31}P\{^1H\}$ NMR

Compounds **4**, **9**, and **14** exhibited significant activities against the growth of *M. tuberculosis* with a selectivity index (SI) of greater than 58, 27, and 150 respectively.

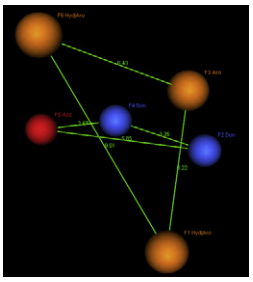


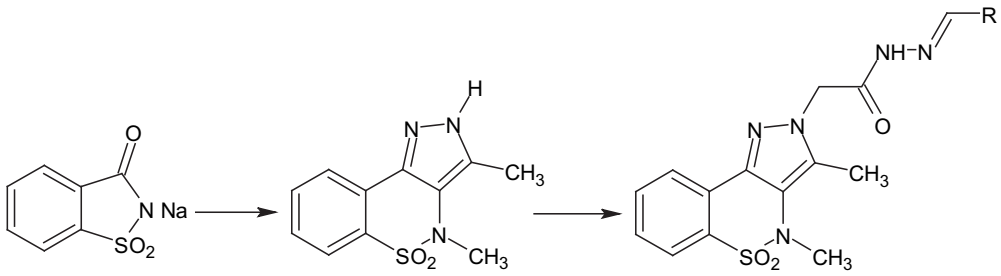
4 **9** **14**

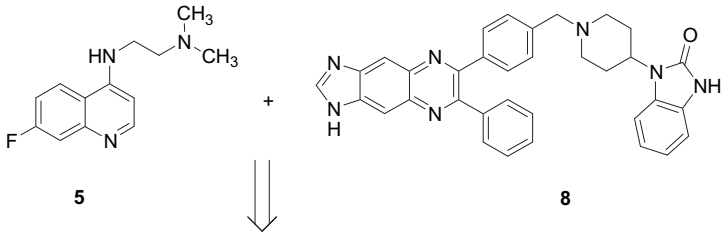


1 2 3

R = C_6H_5, *p*-MeC_6H_4, *p*-ClC_6H_4, *p*-FC_6H_4, *p*-$Pr^iC_6H_4$, *o*,*p*-$Cl_2C_6H_3$, *o*-ClC_6H_4, *m*-$NO_2C_6H_4$, 1-naphthyl, H.
R' = H, Cl.

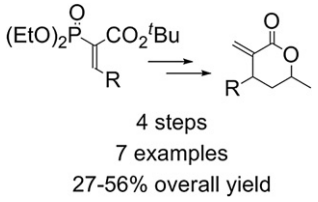




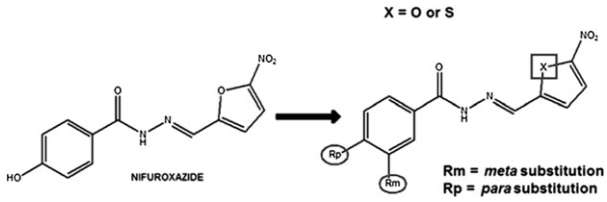


5 8

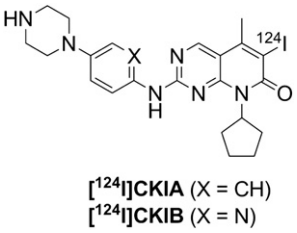
Combination kills breast cancer cells selectively

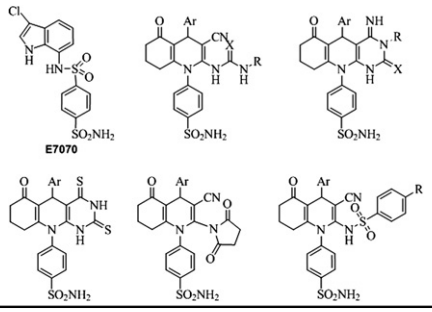


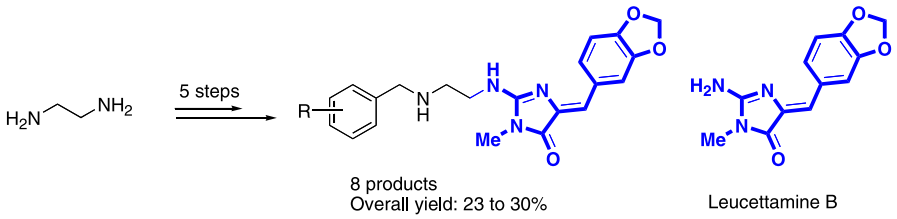
QSAR analysis for modeling the antileishmanial activity of Benzylidene Hydrazides was carried out using chemometrics methods. This paper focuses on investigating the role of weight update function in artificial neural networks.



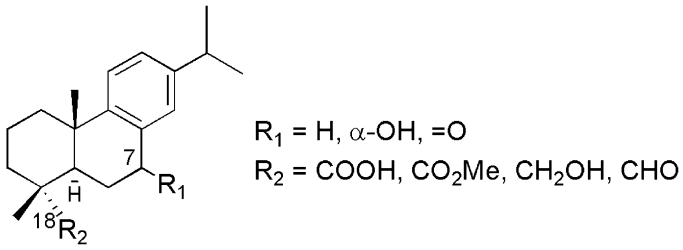
The present work describes the radiosynthesis and radiopharmacological evaluation of two novel iodine-124 labeled Cdk4 inhibitors.



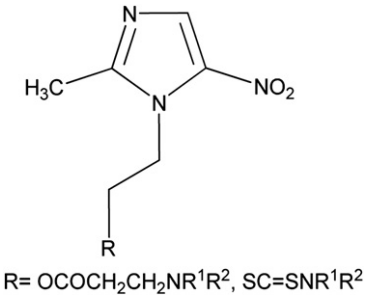




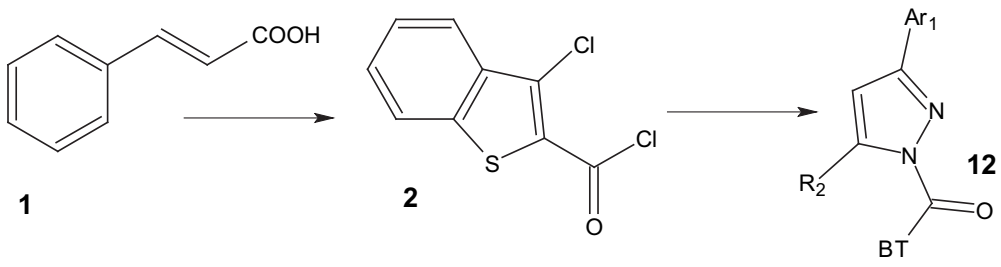
A series of C18-oxygenated derivatives of dehydroabietic acid were synthesized from commercial abietic acid and evaluated for their cytotoxic, antimycotic, and antiviral activities.



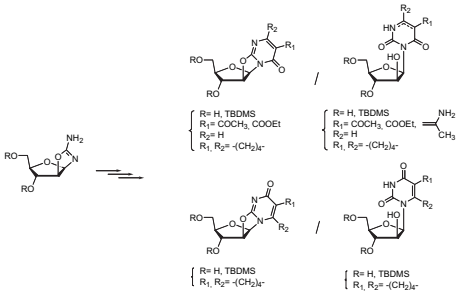
Twenty seven derivatives of 2-(2-methyl-5-nitro-imidazol-1-yl)ethanol were synthesized and evaluated for anti-*trichomonas*, spermicidal and antifungal activities. Seven compounds showed significant anti-*trichomonas* and spermicidal activities and also exhibited mild antifungal activity.



Series of new benzo[b]thiophene derivatives were synthesized, characterized and their antimicrobial and anti-inflammatory studies were performed. Few of the compounds showed significant antimicrobial and anti-inflammatory activity.

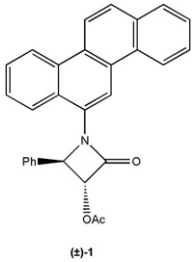


PRELIMINARY COMMUNICATIONS



A series of new imidazo[2,1-*b*]thiazoles was prepared using the TDAE methodology and tested for their antibacterial and antifungal activities. The compound **3e** presents an interesting antifungal potential against *Candida tropicalis.*

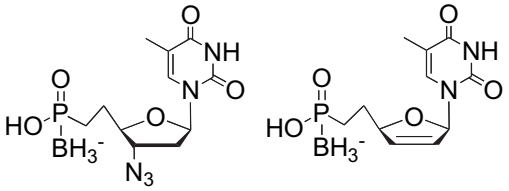
We have synthesized enantiopure β-lactams as anticancer agents through staudinger reaction structure-activity study has identified potent anticancer β-lactam.



(±)-1

LABORATORY NOTE

Nucleoside α-boranophosphonate analogues of AZT and d4T



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 Bukvić Krajačić, Predrag Novak, Miljenko Dumić, Mario Cindrić, Hana Čipčić Paljetak and Nedjeljko Kujundžić © 2009 Published by Elsevier Masson SAS

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