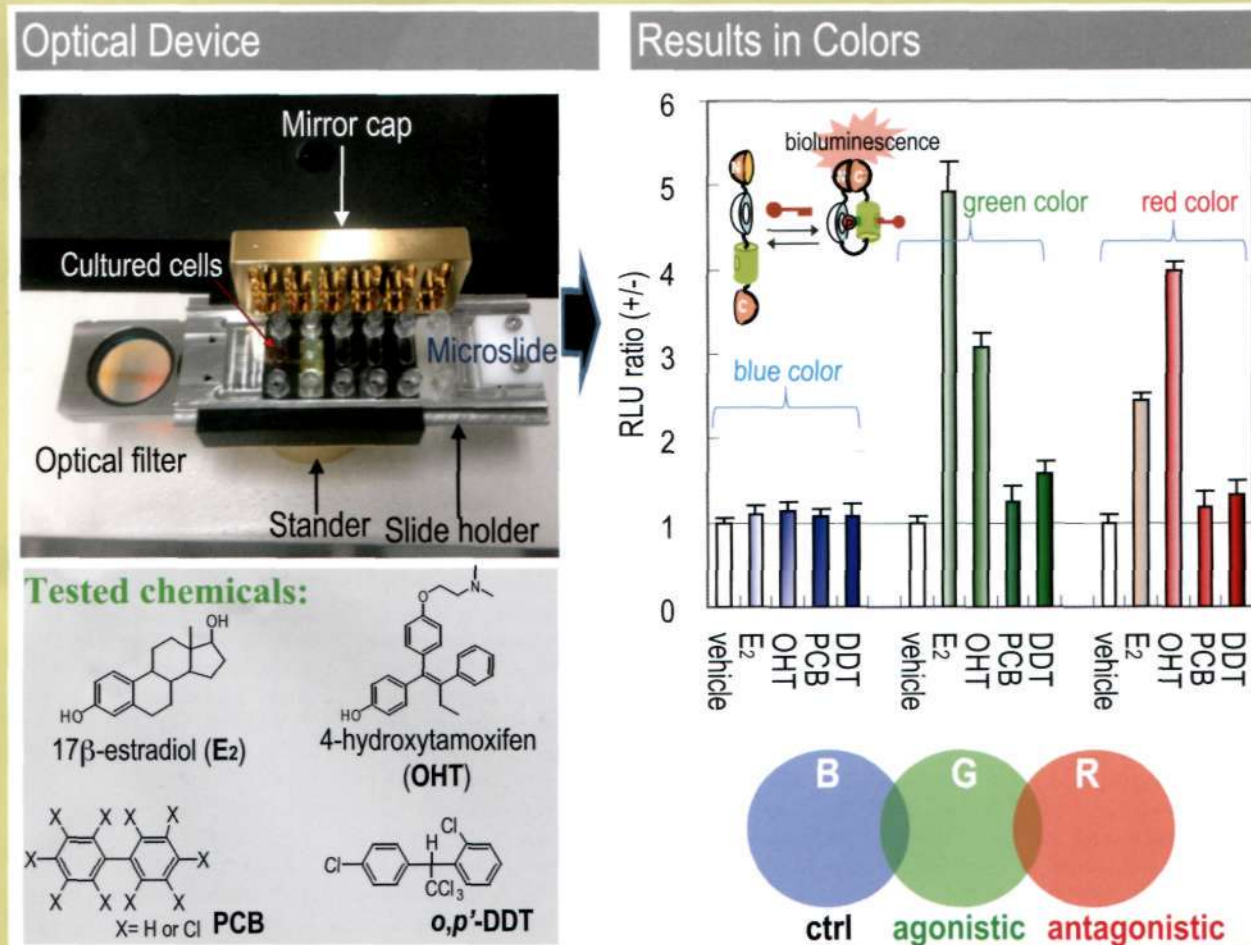


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A Bioluminescent Assay System for Whole-Cell Determination of Hormones

pp. 706-713

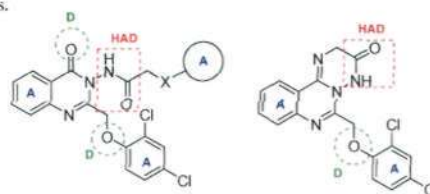


Regular Articles

Design and Synthesis of Some 3-Substituted-2-[(2,4-dichlorophenoxy)-methyl]quinazolin-4(3H)-one Derivatives as Potential Anticonvulsant Agents

S. E.-S. Abbas, F. M. Awadallah, N. A. Ibrahim, E. G. Said, and G. Kamel

Series of 2,3-disubstituted quinazolinone derivatives and a 1,2,4-triazino[2,3-c]quinazolinone featuring the pharmacophoric elements of antiepileptic drugs were designed, synthesized and screened for anticonvulsant activity using the scPTZ and MES models.

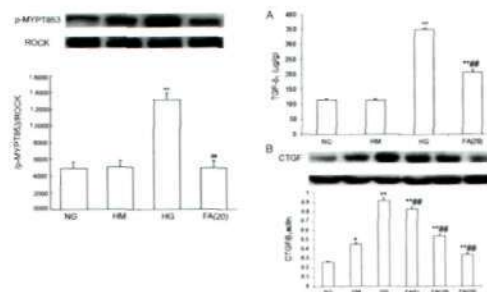


Model of target compounds

pp. 679–687

Fasudil Inhibits Epithelial-Myofibroblast Transdifferentiation of Human Renal Tubular Epithelial HK-2 Cells Induced by High Glucose

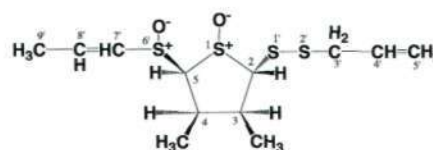
L. Gu, Q. Gao, L. Ni, M. Wang, and F. Shen



pp. 688–694

Cyclic Sulfoxides Garlicinins B₂, B₃, B₄, C₂, and C₃ from *Allium sativum*

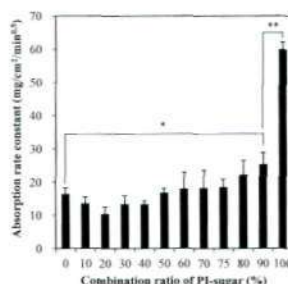
T. Nohara, Y. Fujiwara, T. Ikeda, K. Murakami, M. Ono, D. Nakano, and J. Kinjo



pp. 695–699

Physicochemical Characterization of Tretinoin Tocopheril Emulsion and Povidone-Iodine Sugar Ointment Blend Developed for Improved Regulation of Wound Moisture

Y. Noda, M. Saito, K. Watanabe, A. Sanagawa, Y. Sobajima, and S. Fujii

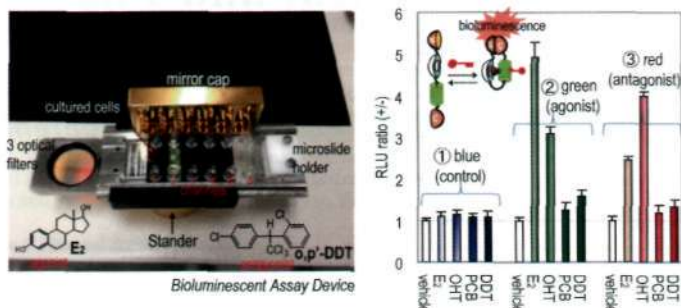


Water Absorption Characteristics of Blended Ointments
With TR-cream the water absorption rate constant was decreased when the combination ratio of PI-sugar was 90%. No further changes were observed when the combination ratio of PI-sugar was between 0–80%.

pp. 700–705

A Bioluminescent Assay System for Whole-Cell Determination of Hormones

S. B. Kim, T. Suzuki, and A. Kimura

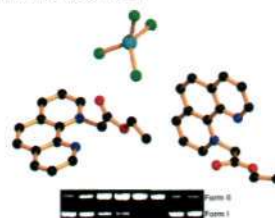


pp. 706–713

Synthesis, Crystal Structures and DNA-Cleaving Activities of $[\text{Cemp}]_2[\text{MCl}_4]$ (Cemp = *N*-Carbethoxymethyl-1,10-phenanthroline, $\text{M} = \text{Cu}^{\text{II}}$, Zn^{II} , Co^{II} , Ni^{II} and Mn^{II})

M.-Z. Chen, M. Chen, C.-Q. Zhou, W.-E. Lin, J.-X. Chen, W.-H. Chen, and Z.-H. Jiang

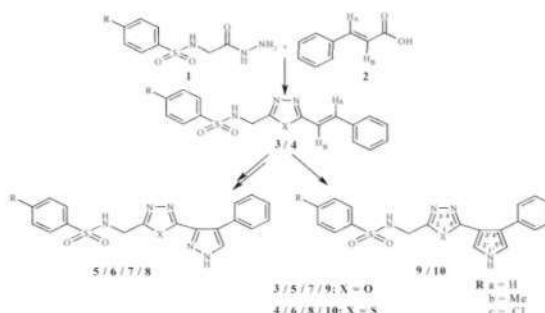
N-carbethoxymethyl-1,10-phenanthroline bromide (CempBr) and its five metal complexes, $[\text{Cemp}]_2[\text{MCl}_4]$ ($\text{M} = \text{Cu}^{\text{II}}$ (1), Zn^{II} (2), Co^{II} (3), Ni^{II} (4) and Mn^{II} (5)), were synthesized and characterized. Among them, complex 1 exhibited high DNA-binding affinity and was capable of efficiently cleaving DNA under physiological conditions, most probably via an oxidative mechanism.



pp. 714–721

Synthesis, Antimicrobial and Cytotoxic Activities of Sulfonamidomethane Linked Heterocycles

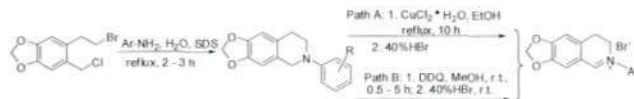
M. Swapna, C. Premakumari, S. Nagi Reddy, A. Padmaja, V. Padmavathi, P. Kondaiah, and N. Siva Krishna



pp. 722–730

Synthesis and *in Vitro* Antifungal Activities of New 2-Aryl-6,7-methylenedioxy-3,4-dihydroisoquinolin-2-ium Bromides

X. J. Yang, Y. Yao, Y. Y. Qin, Z. Hou, R. Yang, F. Miao, and L. Zhou

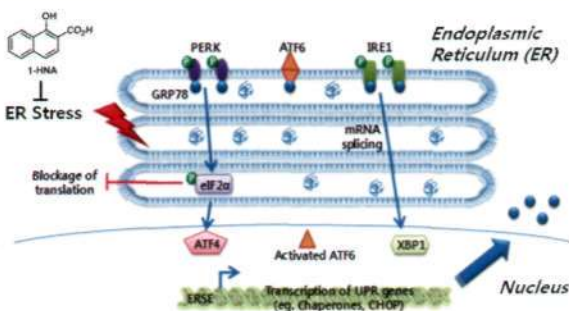


An efficient and practical approach to the title compounds was developed from commercially available 1,3-benzodioxole and twenty-six new title compounds were obtained. All the synthesized title compounds were first evaluated for antifungal activities *in vitro* against *Alternaria alternata*, *Curvularia lunata* and *Fusarium oxysporum* sp. *niveum* at 50 $\mu\text{g/mL}$ and the structure–activity relationship was also discussed. The results showed that the title compounds are potential for the development of new isoquinoline antimicrobial agents.

pp. 731–739

Hydroxynaphthoic Acids Identified in a High Throughput Screening Potently Ameliorate Endoplasmic Reticulum Stress as Novel Chemical Chaperones

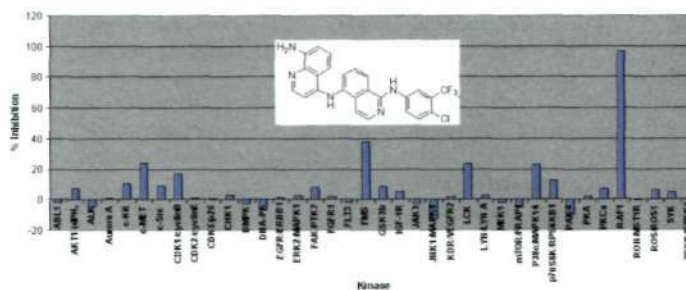
K. Jeong, J. Ku, M. Park, S. Park, J. Yang, and T. Nam



pp. 740–746

Novel Quinolinylaminoisoquinoline Bioisosteres of Sorafenib as Selective RAF1 Kinase Inhibitors: Design, Synthesis, and Antiproliferative Activity against Melanoma Cell Line

H. J. Cho, M. I. El-Gamal, C.-H. Oh, S. H. Lee, T. Sim, G. Kim, H. S. Choi, J. H. Choi, and K. H. Yoo

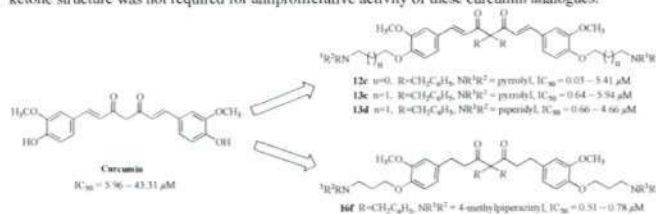


pp. 747–756

Synthesis and Antiproliferative Effect of Novel Curcumin Analogues

B. Liu, M. Xia, X. Ji, L. Xu, and J. Dong

Novel curcumin analogues were synthesized from curcumin via alkylation at the central carbon and the phenolic hydroxy groups, and hydrogenation of α,β -unsaturated ketone moieties. Most of the compounds showed increased antiproliferative activity against five human solid tumor cell lines *in vitro* comparing with that of curcumin. Preliminary SAR analysis revealed that the α,β -unsaturated ketone structure was not required for antiproliferative activity of these curcumin analogues.

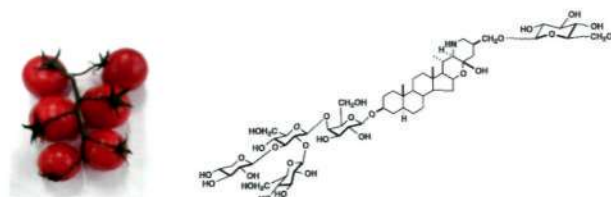


pp. 757–763

Notes

Saponins Esculeosides B-1 and B-2 in Italian Canned Tomatoes

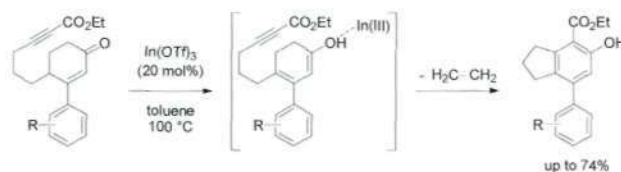
H. Manabe, Y. Fujiwara, T. Ikeda, M. Ono, K. Murakami, J.-R. Zhou, K. Yokomizo, and T. Nohara



pp. 764–767

One-Pot Synthesis of Phenol Derivatives by the Novel Intramolecular Alder–Rickert Reaction: Effects of Aryl Substituent at the 3-Position of Cyclohexenone Derivatives on Reactivity

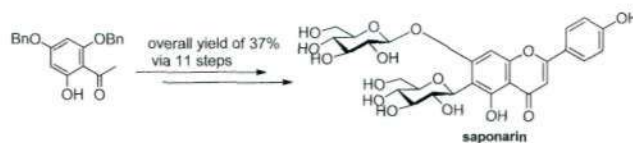
A. Kinbara, T. Yamagishi, T. Fujishige, and H. Miyaoka



pp. 768–775

First Synthesis of Saponarin, 6-C- and 7-O-Di- β -D-glucosylapigenin

K. Misawa, Y. Takahashi, and S. Sato



pp. 776–780