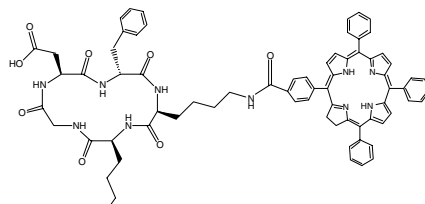


Interest of RGD-containing linear or cyclic peptide targeted tetraphenylchlorin as novel photosensitizers for selective photodynamic activity

pp 205–220

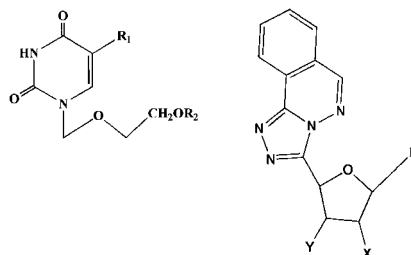
Céline Frochot, Benoît Di Stasio, Régis Vanderesse, Marie-Josée Belgy, Marc Dodeller, François Guillemin, Marie-Laure Viriot, Muriel Barberi-Heyob*



Synthesis and antiviral activities of new acyclic and “double-headed” nucleoside analogues

pp 221–232

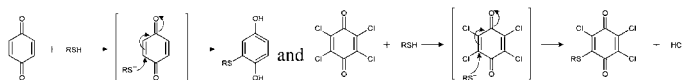
Xinying Zhang, Adel Amer, Xuesen Fan, Jan Balzarini, Johan Neyts, Erik De Clercq, Mark Prichard, Earl Kern, Paul F. Torrence*



Quinone-induced inhibition of urease: Elucidation of its mechanisms by probing thiol groups of the enzyme

pp 233–242

Wiesława Zaborska, Barbara Krajewska,* Mirosława Kot, Waldemar Karcz



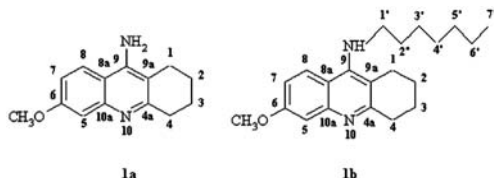
1,4-Benzoquinone, 2,5-dimethyl-1,4-benzoquinone, tetrachloro-1,4-benzoquinone and 1,4-naphthoquinone inhibit urease through arylation of enzyme thiols, the latter, however, possibly also through redox cycling.

Tacrine derivatives–acetylcholinesterase interaction:

pp 243–257

¹H NMR relaxation study

Maurizio Delfini,* Maria Enrica Di Cocco,
Fabiana Piccioni, Fernando Porcelli, Anna Borioni,
Andrea Rodomonte, Maria Rosaria Del Giudice

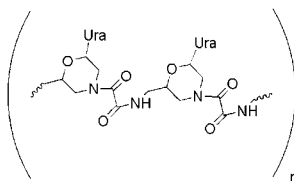


Two tacrine-based acetylcholinesterase (AChE) inhibitors, 6-methoxytacrine (**1a**) and 9-heptylamino-6-methoxytacrine (**1b**), and their interaction with *Electrophorus Electricus* AChE were investigated through spin–lattice relaxation times NMR. The ligand/enzyme interaction constants were evaluated for both compounds by the analysis of motional parameters.

New oligonucleotide analogues based on morpholine subunits joined by oxalyl diamide tether

pp 258–275

Tatiana V. Abramova,* Marat F. Kassakin,
Alexander A. Lomzov, Dmitrii V. Pyshnyi,
Vladimir N. Silnikov

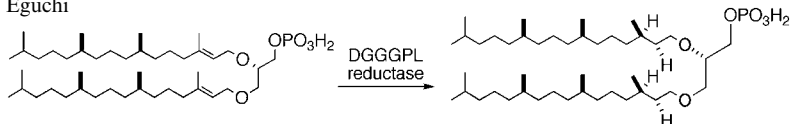


Morpholino oligonucleotide analogues with oxalyl diamide backbone

Stereochemistry of reduction in digeranylgeranylgerolphospholipid reductase involved in the biosynthesis of archaeal membrane lipids from *Thermoplasma acidophilum*

pp 276–283

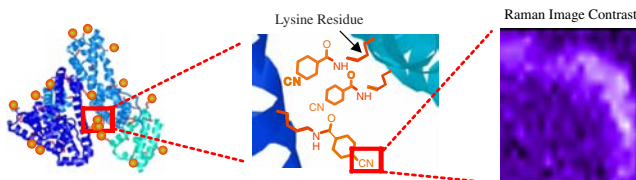
Yuji Nishimura, Tadashi Eguchi*



The putative digeranylgeranylgerolphospholipid reductase (DGGGPL reductase) gene of *Thermoplasma acidophilum* was cloned and expressed. The purified recombinant enzyme showed the reductase activity, which confirmed that the Ta0516m gene of *T. acidophilum* encodes DGGGPL reductase. The stereospecificity in reduction of 2,3-di-*O*-phytylglycerol phosphate by the recombinant reductase appeared to take place through addition of hydrogen in a *syn* manner.

Synthesis and characterization of CN-modified protein analogues as potential vibrational contrast agents**pp 284–293**

Matthew Noestheden, Qingyan Hu,
Li-Lin Tay, Angela M. Tonary,
Albert Stolow, Roger MacKenzie,
Jamshid Tanha, John Paul Pezacki*



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