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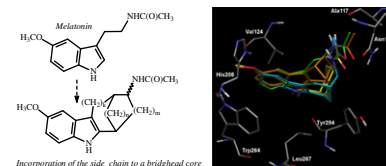
### Preliminary Communication

#### Application of the bridgehead fragments for the design of conformationally restricted melatonin analogues

pp 67–72

Olga N. Zefirova,\* Tatiana Yu Baranova, Anna A. Ivanova, Andrei A. Ivanov and Nikolay S. Zefirov

Analogues of endogenous hormone melatonin with a side chain incorporated into the bicyclic bridgehead cores were synthesized (left panel). The experimentally determined binding affinity of methoxy-indole derivative fused with *exo*-N-acetamino-substituted bicyclo[2.2.2]octane confirmed the molecular docking predictions (right panel).

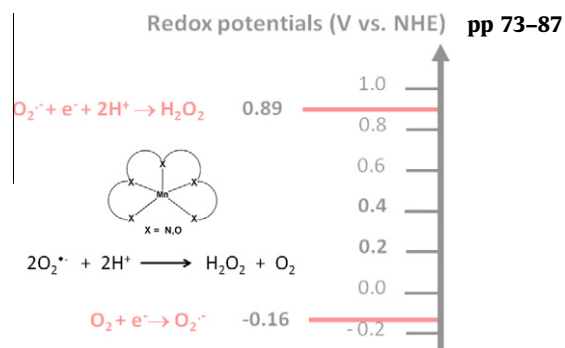


### Minireview

#### Manganese complexes displaying superoxide dismutase activity: A balance between different factors

Olga Iranzo\*

Manganese complexes with superoxide dismutase activity have redox potentials between 0.89 and −0.16 V (vs. NHE)



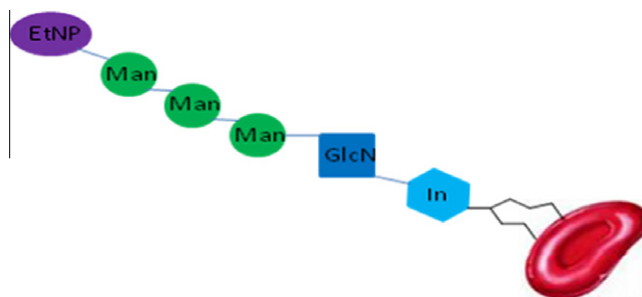
### Regular Articles

#### Synthesis of the essential core of the human glycosylphosphatidylinositol (GPI) anchor

pp 88–93

Barbara Richichi, Lucio Luzzatto, Rosario Notaro, Giancarlo la Marca and Cristina Nativi\*

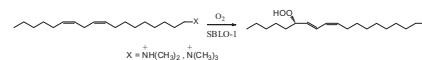
The first synthesis of the essential core of the human glycosylphosphatidylinositol (GPI) anchor is reported.



**Cationic substrates of soybean lipoxygenase-1****pp 94–100**

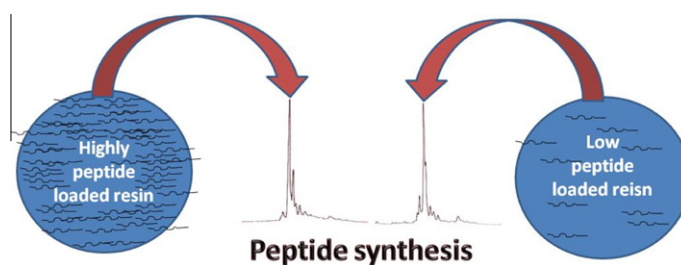
Lucas E. Chohany, Kathleen A. Bishop, Hannah Camic, Stephen J. Sup, Peter M. Findeis and Charles H. Clapp\*

Soybean lipoxygenase-1 will oxygenate synthetic substrates in which the carboxylate group of linoleate is replaced with a positively charged group. The major products have the same regio- and stereochemistry as the products obtained from fatty acid substrates.

**Solid-phase peptide synthesis in highly loaded conditions****pp 101–109**

Clovis R. Nakaie,\* Eliandre Oliveira, Eduardo F. Vicente, Guita N. Jubilut, Sinval E.G. Souza, Reinaldo Marchetto and Eduardo M. Cilli

HPLC profiles of crude peptides synthesized in highly and in low loaded resins.



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