

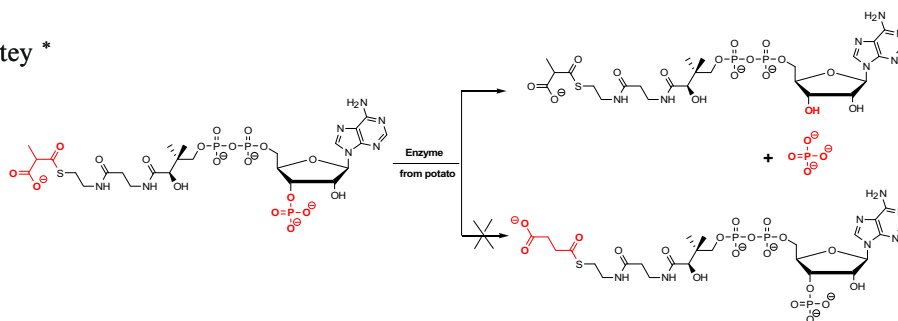
## Contents

Abstracted/indexed in SCOPUS®. Full text available on ScienceDirect®.

### The putative coenzyme B<sub>12</sub>-dependent methylmalonyl-CoA mutase from potatoes is a phosphatase

pp 261–264

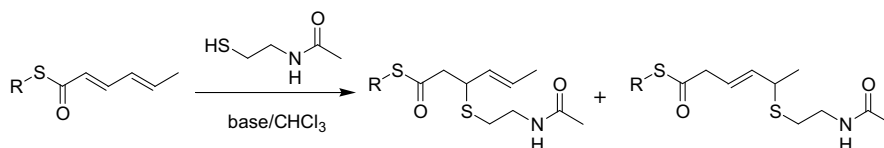
Csaba Paizs, Tanja Diemer and János Rétey \*



### Emollient, humectant, and fluorescent $\alpha,\beta$ -unsaturated thiol esters for long-acting skin applications

pp 265–270

Carmen Robinson, Rosemarie F. Hartman and Seth D. Rose \*

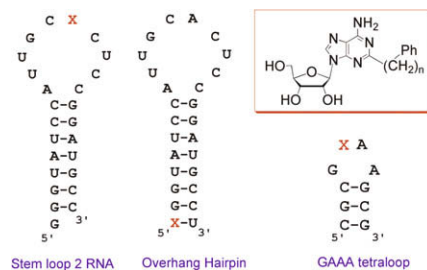


$\alpha,\beta$ -Unsaturated thiol esters are subject to Michael-type addition by nucleophiles such as thiolates. Suitably substituted compounds may have utility as long-acting emollients (R = hydrophobic) or humectants (R = hydrophilic) by reaction with thiols in skin proteins.

### Characterization of two adenosine analogs as fluorescence probes in RNA

pp 271–277

Ying Zhao, Joseph L. Knee \* and Anne M. Baranger \*

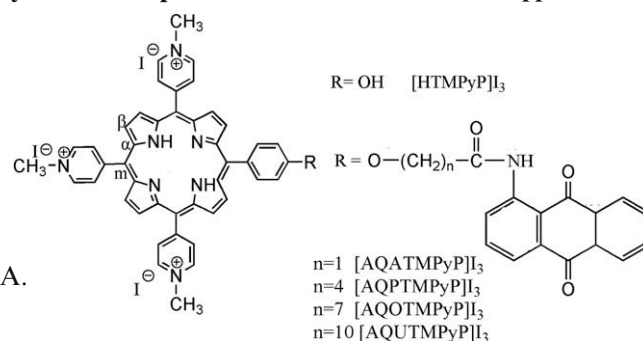


## DNA-binding and photocleavage properties of cationic porphyrin–anthraquinone hybrids with different lengths of links

pp 278–287

Ping Zhao, Lian-Cai Xu, Jin-Wang Huang,\* Bo Fu,  
Han-Cheng Yu, Wei-Hong Zhang, Jian Chen,  
Jun-Hua Yao and Liang-Nian Ji

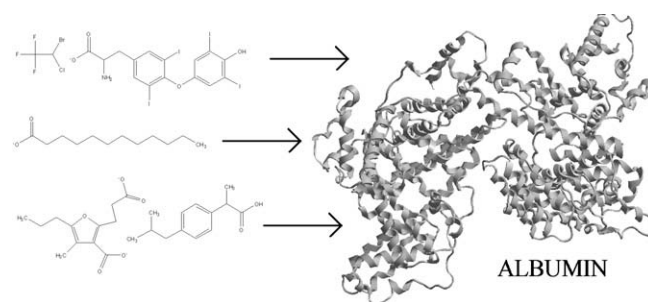
Cationic porphyrin–anthraquinone hybrids with different lengths of linkage were synthesized. Hybrids with longer linkages may be sterically appropriate to bis-intercalate CT DNA.



## Computational study of ligand binding to protein receptors

pp 288–294

Paul Wembridge, Heather Robinson and Igor Novak\*

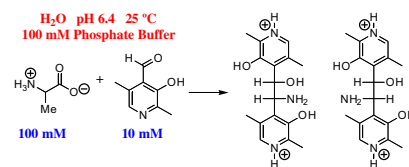


## Alanine-dependent reactions of 5'-deoxypyridoxal in water

pp 295–298

Maybelle K. Go and John P. Richard\*

Alanine-catalyzed dimerization of pyridoxal in water.

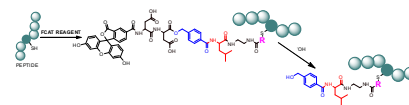


## Fluorescent isotope-coded affinity tag (FCAT). I. Design and synthesis

pp 299–311

Zuly Rivera-Monroy, Guenther K. Bonn and András Guttman\*

Fluorescent isotope-coded affinity tag (FCAT) is new class of reagent to label cysteine containing proteins and/or peptides, providing a tool for quantitative proteomics with the option of absolute quantification. In this paper, we describe the design, synthesis characterization and reactivity of FCAT reagent.



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**Mechanistic studies on PseB of pseudaminic acid biosynthesis:  
A UDP-*N*-acetylglucosamine 5-inverting 4,6-dehydratase**

pp 312–320

James P. Morrison, Ian C. Schoenhofen and Martin E. Tanner \*

