

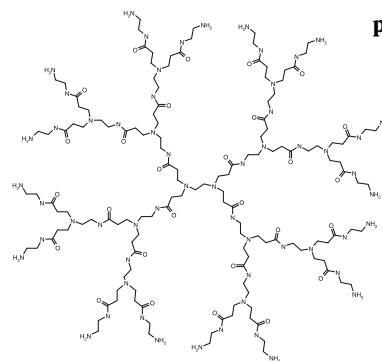
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## Review

### Dendrimers: Analytical characterization and applications

V. Biricova<sup>\*</sup> and A. Laznickova

Review focuses on analytical techniques used for separation and characterization of dendrimers and their derivatives that are interesting for many biological and industrial applications.



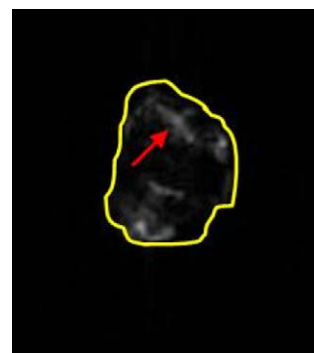
pp 185–192

## Regular Articles

### The efficacy of new colchicine derivatives and viability of the T-Lymphoblastoid cells in three-dimensional culture using <sup>19</sup>F MRI and HPLC-UV *ex vivo*

Dorota Bartusik,<sup>\*</sup> Boguslaw Tomanek, Erika Lattová, Hélène Perreault, Jack Tuszyński and Gino Fallone

<sup>19</sup>F MR image showed fluorine derivative uptake in CEM cells cultured in hollow fiber bioreactor.

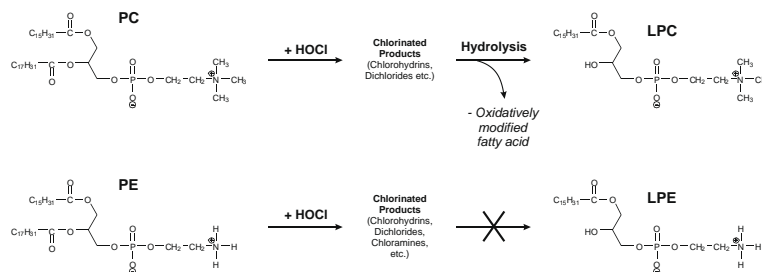


pp 193–201

### Lysophosphatidylethanolamine is – in contrast to – choline – generated under *in vivo* conditions exclusively by phospholipase A<sub>2</sub> but not by hypochlorous acid

pp 202–210

Celestina Schober, Jürgen Schiller, Franziska Pinker, Jan G. Hengstler and Beate Fuchs<sup>\*</sup>

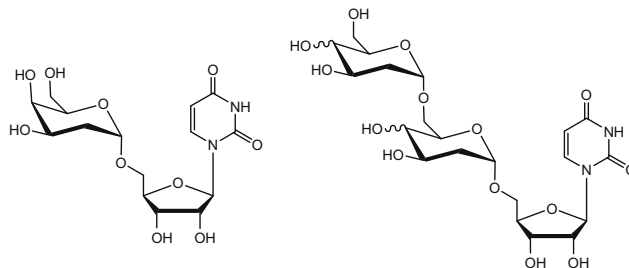


**Synthesis of 2-deoxy-hexopyranosyl derivatives of uridine as donor substrate analogues for glycosyltransferases**

pp 211–216

Ilona Wandzik,<sup>\*</sup> Tadeusz Bieg and Marianna Czaplicka

A series of UDP-sugar analogues were synthesized and tested as inhibitors against bovine  $\beta$ -1,4-galactosyltransferase I in fluorescent assays.

**Phosphorylated hydroxyethylamines as novel inhibitors of the bacterial cell wall biosynthesis enzymes MurC to MurF**

pp 217–222

Matej Sova, Andreja Kovač, Samo Turk, Martina Hrast, Didier Blanot and Stanislav Gobec<sup>\*</sup>

A series of non-phosphorylated and phosphorylated hydroxyethylamines were synthesized and evaluated for inhibitory activity against Mur ligases. The most potent inhibitor had an  $IC_{50}$  of 6  $\mu$ M on MurE.

