Tentative Outline

Special Issue for PROTEIN & PEPTIDE LETTERS

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Advances in Therapeutic Glycopeptides

Aim & Scope:

Employing glycopeptides for therapeutic purposes used to be regarded as proposals. Owing largely to the recent significant improvements in biological research, synthetic methods, separation practices, and Characterization techniques, these proposals have been transformed into ongoing research projects in many laboratories around the world. Previously known as antibiotics, glycopeptides nowadays are also HIV and cancer vaccines. While several of them being in clinical test, it could be expected that in the near future, treatment regimen of such difficult diseases might be reformed accordingly. As witness and practitioner in this exciting area, we found many interesting preliminary results being produced, and we notice that different opinions need to be reviewed. For Protein & Peptide Letters, a timely special issue about the topic “Advances in Therapeutic Glycopeptides”, covering state-of-the-art research papers and expert reviews from this area, will gain broad readership and will exert positive influence upon this emerging area.

Keywords: Glycopeptides, synthesis of glycoconjugates, cancer vaccines, glycosylation, drug discovery.

Subtopics:

- New ligation method for rapid synthesis of glycosylated peptide library
- Recent progress of neoglycosylation
- Design and synthesis of MUC-1 glycopeptide vaccine
- Glycosylated peptides and proteins: separation and characterization
- Synthesis of a glycopeptide-based imaging probe using novel fluorine-rich soluble supports
- Biological mechanism (or research) of glycopeptides
- Development of clinical glycopeptides
- Recent advances in sulfo-glycopeptides

Schedule:

Publication month: June 2014