Tentative Outline

Special Issue for Current Medicinal Chemistry

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Biomarkers in atrial fibrillation

Aims & Scope:

Atrial fibrillation is a frequent cardiovascular entity which affects a large proportion of subjects deteriorating quality of life and posing significant morbidity and mortality. Novel treatments concerning anticoagulation, anti-arrhythmic management and interventional strategies have significant contribute to the improvement of patients status. However, a lot of questions remains concerning the pathophysiology of the disease, the identification of the patients best responsible to atrial fibrillation ablation, the selection of the optimum anti-arrhythmic management in each case and risk categorization of the patients concerning stroke risk, bleeding risk and recurrence of atrial fibrillation. As until now the use of biomarkers in the clinical setting of atrial fibrillation is limited we believe that a full-length thematic issue focusing on thrombosis/fibrinolysis biomarkers, on inflammatory biomarkers, on biomarkers of atrial fibrosis and stiffening would provide usefully and interesting data on the readers of Current Medicinal Chemistry.

Keywords: Atrial fibrillation, Biomarkers, Inflammation, Oxidative stress, MicroRNAs, Prognosis, Stroke, Bleeding risk, Atrial fibrillation ablation

Sub topics:

1. The role of inflammation, oxidative stress and fibrosis in the process of atrial fibrillation
2. Biomarkers associated with bleeding risk and stroke
3. The role of microRNAs in atrial fibrillation
4. Atrial fibrillation in special condition
5. Prognosis of atrial fibrillation

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