

Special Issue on  
**Novel Solutions for Fighting Pharmaco-resistance**

# CALL FOR PAPERS

Pharmaco-resistance is based on constitutive, inherited mechanisms that could confer resistance to treatment or can be acquired and/or exacerbated as a result of selective pressure factors (e.g., prolonged drug treatment during disease progress and release of high amounts of drugs in the environment). In any case, the modifications include 1) mutational or epigenetic alteration of the targeted protein of the drug; 2) enzymatic inactivation of the drug; 3) bypassing of the target; 4) preventing drug access to targets. All these mechanisms are associated with multiple and complex cellular and molecular factors which still need to be elucidated in order to find efficient solutions to overcome the drug-resistance mechanisms. Presently, pharmaco-resistance has huge negative impact on the treatment of different pathologies, from infections to cancer. For this reason novel solutions for fighting it are increasingly needed. The purpose of this special issue is to present an upgrade of old and new solutions for preventing, reversing, or reducing pharmaco-resistance in different clinical areas.

Potential topics include but are not limited to the following:

- ▶ Molecular mechanisms of pharmaco-resistance
- ▶ Evolution of antibiotic resistance
- ▶ Strategies to combat the multidrug resistance in viral and microbial infections
- ▶ Strategies to overcome MDR in cancer

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jchem/medicinal.chemistry/nsfp/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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