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*Pharmacological Research* publishes cutting-edge articles in biomedical sciences to cover a broad range of topics that move the pharmacological field forward. We provide a venue through which specialists across disciplines can rapidly exchange information in health sciences that pertains to modern pharmacological topics. The journal publishes articles on molecular, biochemical, translational, and clinical research (including clinical trials); it is proud of its rapid publication of accepted papers that comprises a dedicated, fast acceptance and publication track for high profile articles.

Invited and unsolicited review articles are welcome.

**Journal Sections**

Specific sections are dedicated to:

**The cardiovascular system:** CV disease therapy; Signal transduction and receptor pharmacology in the CV system; Target organs; Clinical trials.

**Neuroscience, including psychopharmacology, and neuroendocrinology:** Understanding of the central nervous system in physiological and pathological conditions; Neuropharmacological and molecular mechanisms of learning and memory; Therapeutic and diagnostic challenges for mental illness and neurodegenerative diseases; System biology.

**Oncology:** Targeted cancer therapy; Precision medicine and personalized therapy; Signal transduction studies, as related to drug action; Clinical trials.

**Immunology (clinical and basic):** Immune and inflammatory mechanisms including target identification; Immunotherapy and immunotoxicology; Immunopathology; Vaccines and adjuvants; Treatment of infectious diseases.

**Pharmacogenomics, Pharmacogenetics and Precision Medicine:** We are especially interested in GWAS studies and studies reporting pharmacogenetic data that are relevant in terms of safety and efficacy of drugs. They must provide insight into novel genomic or therapeutic associations that can help guide therapy selection or suggest new indications for established drugs. Studies can also provide details of exceptional responses in limited numbers of patients. We also publish n=1 studies of exceptional responses, provided they are backed up by compelling genomic or
experimental data. Studies must include full clinical description of the case, along with details of the
response and supporting molecular information. The molecular information should support the clinical
observations and offer a definitive pharmacogenomic insight. Standard clinical sequencing assays
(Foundation ONE, Genoptix etc) are only appropriate when the therapeutic or phenotypic response
is novel. Ideally, the observational patient studies should be supported by lab based functional
data. **Bioactive molecules derived from medicinal plants or natural products:** New, effective
bioactive molecules; Drug target identification; Treatment mechanism; Mechanism investigation with
-omics and computational technologies; Combinational therapy with natural products; Multi-targeting
and network pharmacology; Herbal bioinformatics; Precision medicine of natural products; Evidenced-
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Studies reporting on plant extracts in which the active principle(s) has not been defined do not fall into
the scope of this journal. Exceptions can be made for papers addressing the mechanisms of actions or
the clinical applications of standardized herbal preparations. Clinical studies on commercially-available
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**Rare diseases and orphan drugs, and drug repositioning**

We also publish articles focusing on: **Gastrointestinal, respiratory and urogenital apparatuses**
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Bioactive molecules derived from medicinal plants or natural products: New, effective bioactive molecules; Drug target identification; Treatment mechanism; Mechanism investigation with -omics and computational technologies; Combinational therapy with natural products; Multi-targeting and network pharmacology; Herbal bioinformatics; Precision medicine of natural products; Evidenced-based research and clinical trials.

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Rare diseases and orphan drugs, and drug repositioning

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