Instruction to authors

1. Introduction

Medicinal Chemistry Research is a journal for the prompt disclosure of novel experimental achievements in the many facets of drug design, drug discovery, and the elucidation of mechanisms of action of biologically active compounds. Articles are sought which emphasize research in chemical biological relationships, especially with respect to: structure-activity relationships, investigations of biochemical and pharmacological targets of drug action, and correlations of structures with the mode of action of biologically active compounds. Studies will be welcomed that increase our understanding of biochemical interactions between drug molecules, ions, free radicals, and sterically important sections of macromolecular targets. The Journal is also dedicated to medicinal plants and to bioactive natural products of plant, fungal, mammalian and aquatic origin. The Journal publishes original contributions in seven major areas:

- Synthesis of bioactive compounds.
- Docking, molecular modeling, QSAR, SAR, and computational studies of bioactive interactions.
- Identification of targets and mechanism of activity of bioactive natural products isolated from plant, fungal, mammalian and aquatic origin.

Contributions reporting the following are not normally considered for publication:

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- Unexceptional and predictable bioactivity (e.g. antioxidant properties of phenolic or antibacterial activity of essential oils or antioxidant properties of metals such as iron, copper, etc.).
- Uncritical ethnopharmacological investigations, where a list of plants and their use are simply reported.
- Synthetic work in which the spectroscopic data is not complete (e.g., 1H and 13C NMR, HRMS, CHN, UV, IR, etc.).
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- Biological activity that is low and insufficient to generate meaningful structure activity relationship.

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Michael G. Mueller¹² · Gregory C. Vain² · Alexander B. Smith³ · Diamond Club³

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✉ Michael G. Mueller
michael@access.net
Gregory C. Vain
gregory@access.net

1 Exploration-Terrane Metals Corporation,
1500–999 West Hastings Street, Vancouver,
BC V6C 2W2, Canada

2 Australian Mineral Fields, 44 Parliament Place,
West Perth, WA 6005, Australia

3.2. Abstract. This should be presented as one paragraph detailing the purpose, experimental results and major conclusions, in a finding oriented format. This must be on the second page and no more than 250 words. The abstract should not contain any undefined abbreviations or unspecified references. Immediately after the abstract paragraph provide 4 to 6 keywords, which can be used for indexing purposes; use the heading Keywords before listing these words.

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The characterization of compounds should be presented in a separate paragraph. The peaks from the $^{13}$C NMR must be assigned to the corresponding carbon atom (i.e., if C-1 (carbon in position #1) has a NMR peak at 170.1 then the data should show that C-1 has the 170.1 peak (one decimal: do not use a range). There are a couple of ways to represent this information: $^{13}$C-NMR (DMSO-d$_6$): 170.1 (C=O) or 170.1 (C-1)). These assignments MUST be made before the work can be considered.

Under the material and methods section - compounds should be identified by IUPAC nomenclature and written using the following example:

**Compound** (or IUPAC name) (3a): Yellowish needles (MeOH) (This compound was prepared by.... It was obtained as a white solid, color, yield, etc); mp 85-86 °C; [α]$_D^{25}$ + 92 (c 0.003, Py); UV (EtOH) λ$_{max}$ (log ε) 240 (4.15), 278 (4.30) nm; IR (KBr) ν$_{max}$ 3382, 2877, 2925, 1736, 1701, 1630, 1606, 1517, 1445, 1374, 1276, 1117, 1070 cm$^{-1}$; $^1$H NMR (CDCl$_3$, 500 MHz): δ = 7.84 (2H, d, J = 7.4 Hz, H-2′, H-6′), 6.78 (2H, d, J = 7.4 Hz, H-3′, H-5′), 5.15 (1H, d, J = 4.4 Hz, H-1′), 4.60 (1H, dd, J = 2.4, 12.0 Hz, H-6a), 4.50 (1H, dd, J = 5.0, 12.0 Hz, H-6b), 4.38 (1H, dd, J = 1.2, 4.4 Hz, H-2), 4.24 (1H, dd, J = 1.6, 10.0 Hz, H-4), 3.92 (1H, ddd, J = 5.2, 7.4, 10.0 Hz, H-5), 3.49 (1H, dq, J = 6.8, 9.0 Hz, O-CH$_3$CH$_3$), 3.68 (1H, dq, J = 6.8, 9.0 Hz, O-CH$_3$CH$_3$); $^{13}$C NMR (CDCl$_3$, 125 MHz): δ = 205.4 (C, C-3), 166.6 (C, COBz), 161.6 (C, C-4′), 131.8 (CH, C-2′, C-6′), 120.8 (C, C-1′), 115.2 (CH, C-3′, -5′), 100.8 (CH, C-1), 74.7 (CH, C-2), 73.2 (CH, C-5), 72.7 (CH, C-4), 64.3 (CH$_2$, O-CH$_3$CH$_3$), 63.4 (CH$_2$, C-6), 14.5 (CH$_3$, O-CH$_2$CH$_3$); EIMS m/z 326 [M]+ (5), 308 (100); HRESIMS m/z (pos): 349.0898 C$_{15}$H$_{20}$O$_3$Na (calcd. 349.0899); Anal. Calcd. for C$_{15}$H$_{15}$N$_5$: C, 67.90; H, 5.70; N, 26.40. Found: C, 67.84; H, 5.39; N, 26.12.
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3.6. Conclusion. This is an optional section where authors can highlight their results.

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