AIMS AND SCOPE

Reviews in Analytical Chemistry (REVAC) is a peer-reviewed Open Access journal that publishes expert and basic Review Articles in the dynamic field of chemical analysis, as well as Research Articles, Rapid Communications, Commentaries, and Letters in the field of analytical chemistry. The subjects can encompass all branches of modern analytical chemistry such as spectroscopy, electrochemistry, chromatography, trace analysis, and solution chemistry and their applications to areas such as environmental control, mineral resources, drug analysis, and other relevant areas.

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Rapid Communications should contain a single section of main text without headings (no division to Introduction, Methods, Results, Discussion). The experimental section can be presented after the main text. Sections in Rapid Communications should be as follows: Title page, Abstract, Keywords (up to 6), a single section of main text without headings, Experimental details, Author statements (explained below), List of non-standard abbreviations (if applicable), References, Graphical abstract (optional), List of figure captions, Figures, Tables with table captions, and Appendix (optional).
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Characterization of each compound prepared by using the general procedure must be presented according to the following example:

5-Methyl-7-(N-methylpiperazino)benzo[b]furan hydrobromide (4e) The free base was obtained in 46% yield as a colorless oil; 1H NMR (400 MHz, CDCl3): δ 7.58 (d, 1H, J = 2.0 Hz), 7.00 (d, 1H, J = 7.8 Hz), 6.73 (d, 1H, J = 7.8 Hz), 6.77 (d, 1H, J = 2.0 Hz), 3.21 (m, 4H), 2.66 (m, 4H), 2.46 (s, 3H), 2.39 (s, 3H); 13C NMR (100 MHz, CDCl3): δ 154.9, 144.3, 143.3, 125.3, 119.9, 115.7, 109.8, 105.5, 55.4, 51.4, 46.2, 14.6. A hydrobromide salt: mp 212-213°C (dec). Anal. Calcd for C14H18N2O‧2 HBr: C, 42.88; H, 5.14; N, 7.14. Found: C, 42.76; H, 5.20; N, 7.14.

Give the full name of the compound followed by a number. Experimental evidence for identity and degree of purity must be presented for all new compounds. Combustion elemental analysis is preferred, but high-resolution mass spectrometric data for the molecular ion is acceptable if supported by 1H NMR and 13C NMR spectra showing compound homogeneity.

A compound characterization checklist should be provided if the manuscript reports characterization data for new compounds or known compounds prepared by a new or modified method.

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- [J. Smith, personal communication],
- [J. Smith and P. Brown, presented at the 4th Symposium on Food Microbiology, Overton, IL, 13-15 June 1989],
- [J. C. Odell, April 1970, Process for batch culturing, U.S. patent 484,363,770],
- [J. Smith, 20 June 1999, Australian Patent Office],
- ... using ABC software [version 2.2; Department of Microbiology, State University, http://www.stu.micro].

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Please keep abbreviations to a minimum. In addition to abbreviations for Systeme International d’Unités (SI) units of measurement, other common units (e.g., bp, kb, and Da), and chemical symbols for the elements, the following should be used without definition: DNA; cDNA; RNA; cRNA; RNase; DNase; rRNA; mRNA; tRNA; AMP, ADP, ATP, dAMP, ddATP, GTP, etc.; ATPase, dGTPase, etc.; NAD; NAD+; NADH; NADP; NADPH; NADP+; poly(A), poly(dT), etc.; oligo(dT), etc.; UV; PFU; CFU; MIC; Tris; DEAE; EDTA; EGTA; HEPES; PCR; and AIDS. Abbreviations for cell lines (e.g., HeLa) as well as viruses (e.g., HIV-1, JC virus, BK virus) also need not be defined. Non-standard abbreviations should not be used unless they appear at least three times in the text. List all non-standard abbreviations, acronyms and symbols in alphabetical order, along with their expanded form, at the end of the text. Define them as well upon first use in the text.

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We strongly recommend the use of correct and established nomenclature wherever possible. Always report numerical data (length, weight, and volume) in the appropriate SI units. Please refer to International Union of Pure and Applied Chemistry (IUPAC) recommendations available for standard metric units. For these units and for molarity, use the prefixes (p = 10^-12, n = 10^-9, μ = 10^-6, m = 10^-3, c = 10^-2, d = 10^-1, h = 10^0, k = 10^1, M = 10^6, G = 10^9, etc.). The unit ‘billion’ (10^9 in America, 10^12 in Europe) is ambiguous and should be avoided. Use μg/ml or μg/g in place of the ambiguous ppm. When fractions are used to express units, it is preferable to use whole units, such as ‘g’ or ‘min’, in the denominator instead of fractional or multiple units, such as μg or 10 min (for example ‘pmol/min’ is preferable to ‘nmol/10 min’, and ‘μmol/g’ is preferable to ‘nmol/μg’). It is also preferable that an unambiguous form such as exponential notation be used; for example, ‘μmol g^-1 min^-1’ is preferable to ‘μmol/g/min’. Units of temperature are presented in degrees centigrade (i.e. 37°C).

Axes for graphs and headings for tables should be given in quantity calculus form, e.g., times as t (s), potential as E (mV vs. SHE), current density as I (mA/cm^2).

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