DESCRIPTION

Phytochemistry Letters invites rapid communications on all aspects of natural product research including:

- Structural elucidation of natural products
- Analytical evaluation of herbal medicines
- Clinical efficacy, safety and pharmacovigilance of herbal medicines
- Natural product biosynthesis
- Natural product synthesis and chemical modification
- Natural product metabolism
- Chemical ecology
- Biotechnology
- Bioassay-guided isolation
- Pharmacognosy
- Pharmacology of natural products
- Metabolomics
- Ethnobotany and traditional usage
- Genetics of natural products

Manuscripts that detail the isolation of just one new compound are not substantial enough to be sent out of review and are out of scope. Furthermore, where pharmacology has been performed on one new compound to increase the amount of novel data, the pharmacology must be substantial and/or related to the medicinal use of the producing organism.

For more details please follow this link: IMPORTANT INFORMATION FOR AUTHORS.

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Introduction
Phytochemistry Letters invites rapid communications on all aspects of natural product research including: structural elucidation of natural products, biotechnology, pharmacology of natural products, ethnobotany and traditional usage, genetics of natural products, analytical evaluation of herbal medicines, clinical efficacy, safety and pharmacovigilance of herbal medicines, bioassay-guided isolation, natural product synthesis and chemical modification, natural product biosynthesis, metabolomics, natural product metabolism and chemical ecology.

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• It is general practice that voucher specimens should be deposited in a recognized herbarium. These voucher specimens need to be fully cited within the article (with collector, collector number and herbarium). In the case of lesser known plants, we encourage authors to include electronic scans of the specimens as part of their supplementary data.
• As an essential step, authors will have to check the taxonomic validity of the plant names using one of the international databases, and preferably [http://www.theplantlist.org](http://www.theplantlist.org)
• In future, such a check will be built into the submission and review process and authors will only be able to submit manuscripts, after the validation of the species' taxonomy.
• A particular problem are complex preparations, especially those containing plant extracts. Here detailed evidence on the authentication during the production needs to be ascertained. In addition fingerprints of the preparations tested are advisable.
• Very commonly these questions have been ignored in clinical studies of herbal preparations. The following two papers make it clear that a correct taxonomic nomenclature is an essential requirement in such studies:
  Heinrich and Verpoorte, J. Ethnopharmacol. 2014, [http://dx.doi.org/10.1016/j.jep.2014.01.016](http://dx.doi.org/10.1016/j.jep.2014.01.016)

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(c) Preparative forms of the technique should include details of (i) layer thickness (preparative TLC only), (ii) amount of sample applied to the layer, (iii) method of detection used to locate the bands and (iv) the solvent used to recover the compounds from the adsorbent after development.
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(d) Packed columns, e.g. 6 m x 3 mm (i.d. measurement only) packed with 1% SE-30 (support material and mesh size can be omitted unless unusual).
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(b) pH optima should be given together with pH values for half maximal activity.
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(d) Enzyme inhibitors-effectiveness should be expressed as Ki or concentration for half-maximal activity.
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Abbreviations
About, approximately: ca.
Anhydrous: dry (not anhyd.)
Aqueous: aq.
Circular dichroism: CD
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Concentrations: ppm (never ppb!), M, mM, M, %, mol
Dry weight: dry wt; fresh weight: fr. wt
Electricity: V, mA, eV
Force due to gravity (centrifugation): g; rpm (revolutions min-1)
Gas chromatography: GC
Gas chromatography mass spectrometry: GC MS trimethylsilyl derivative: TMSi (TMS cannot be used as this refers to the internal standard tetramethylsilane used in 1H NMR)
High performance liquid chromatography: HPLC
Infrared spectrophotometry: IR
Length: nm, m, mm, cm, m
Literature: lit.
Mass spectrometry: m/z [M]+ (molecular ion, parent ion)
Melting points: uncorr. (uncorrected)
Molecular mass: Da (daltons), kDa
Molecular weight: Mr
Nuclear magnetic resonance: 1H NMR, 13C NMR, Hz, ð
Numbers: e.g. 1, 10, 100, 1000, 10,000: per or -1
Optical rotatory dispersion: ORD
Paper chromatography: PC
Precipitate: ppt.
Preparative thin-layer chromatography: prep. TLC
Radioactivity: dpm (disintegrations per min), Ci (curie), sp. act (specific activity), Bq (1 becquerel=1 nuclear transformation sec-1)
Repetitive manipulations: once, twice, x3, x4, etc.
RRt (relative retention time), Rt (Kovat's retention index), ECL (equivalent chain length term frequently used in fatty acid work)
Saturated: satd.
Solution: soln.
Solvent mixtures including chromatographic solvents: abbreviate as follows n-BuOH HOAc H2O (4:1:5)
Statistics: LSD (least significant difference), s.d. (standard deviation), s.e. (standard error)
Temperature: (with centigrade), mp, mps, mmp, bp
Temperature: temp.
Thin-layer chromatography: TLC, RF
Time: s, min, h, day, week, month, year
Ultraviolet spectrophotometry: UV, A (absorbance, not OD optical density)
Volume: l (litre), l, ml
Weight: wt, pg, ng, g, mg, kg

Inorganics, e.g. AlCl3 (aluminum chloride), BF3 (boron trifluoride), Cr+, CO2, H2, HCl, HClO4 (perchloric acid), HNO3, H2O, H2O2, H2SO4, H3BO3 (boric acid), He, KHCO3 (potassium bicarbonate), KMnO4 (potassium permanganate), KOH, K-Pi buffer (potassium phosphate buffer), LiAlH4 (lithium aluminium hydride), Mg2+, MgCl2, N2, NH3, (NH4)2SO4, Na+, NaBH4 (sodium borohydride), NaCl, NaIO4 (sodium periodate), NaOH, Na2SO3 (sodium sulphite), Na2SO4 (sodium sulphate), Na2S2O3 (sodium thiosulphate), O2, Pi (inorganic phosphate), SO, Tris (buffer).

Organics, e.g. Ac2O (acetic anhydride), n-BuOH (butanol), C6H6 (benzene), CCl4 (carbon tetrachloride), CH2Cl2 (methylene chloride), CHCl3 (chloroform), CH2N2 (diazomethane), CM (carboxymethyl), DEAE (diethylaminoethyl), DMF (dimethylformamide), DMSO (dimethyl sulphoxide), EDTA (ethylene-diaminetetra-acetic acid), Et2O (diethyl ether), EtOAc (ethyl acetate), EtOH (ethanol), HCO2H (formic acid), HOAc (acetic acid), iso-PrOH (iso-propanol), Me2CO (acetone), MeCOEt (methyl ethyl ketone), MeOH (methanol), NaOAc (sodium acetate), NaOMe (sodium methoxide), petrol (not light-petroleum or petroleum ether), PhOH (phenol), PrOH
(propanol), PVP (polyvinylpyrrolidone), TCA (trichloroacetic acid), TFA (trifluoroacetic acid), THF (tetrahydrofuran). 1H NMR solvents and standards: CDCl3 (deuterochloroform), D2O, DMSO-d6 [deuterodimethylsulphoxide, not (CD3)2SO], pyridine-d5 (deuteropyridine), TMS (tetramethylsilane).

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