## Wiley-Blackwell House Style Guide

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1988, without the prior permission of the publisher.
INTRODUCTION, 4
PART 1: GENERALEDITING STYLE, 5
1.1 Copy-editing, 5
1.2 English Usage and Grammar, 5
1.3 Editing for Sense, 10
1.4 Spelling, 13
1.5 Punctuation, 15
1.6 Units, 19
1.7 Italics, 21
1.8 Quotations, 22
1.9 Lists, 22
1.10 Footnotes, 23
1.11 Abbreviations, 24
1.12 Time, 26
1.13 Special Characters, 27
1.14 Computing Terms, 28
1.15 Currency, 28
1.16 Qualifications, 28
1.17 Organizations, 30
1.18 Places, 30
1.19 URLs in Text, 33
PART 2: DEALING WITH OTHER MATERIAL, 34
2.1 Electronic Submission, 34
2.2 Disks, 34
2.3 Artwork, 34
2.4 Tables, 35
2.5 References, 37
2.6 Commercial Products, 39 ..... , 39
2.7 Permissions, 40
2.8 Appendices, 40
PART 3: SUBJECT-SPECIFIC STYLES, ..... 41
3.1 Scientific Names, 41
3.2 Aquaculture and Veterinary Science, 43
3.3 Linguistics, 44
3.4 Business, Economics, Maths and Statistics, 44
3.5 Computing and Engineering, 46
3.6 Law, 46
3.7 Life and Physical Sciences, 47
3.8 Medicine, 50
3.9 Nursing, Health and Dentistry, 56
3.10 Social and Behavioural Sciences, 57
3.11 Resources for Journal Abbreviations, 58
3.12 Recommended Reference Books, 58
Acknowledgments, 60

## INTRODUCTION

The Wiley-Blackwell Publishing House Style Guide and its online version have been produced for the use of editors, production editors, freelances, copy-editors, authors and typesetters. The level of consistency that this guide promotes is intended to assist all those involved in the production of Wiley-Blackwell (WB) publications. The WB definition of copy-editing is best described as technical or mechanical editing, which involves language editing, mechanical style (style related to content) and format (visual style). Technical or mechanical editing includes applying house style, technical style, formatting, consistency and correcting grammar. Creative or substantive editing is not usually within the remit of the WB copy-editor and is not commented upon. This guide is not intended to be a comprehensive account of all that is necessary for the presentation of research material, and should be used in conjunction with texts that have greater scope (see recommended references). Some journals and subject areas employ their own systems and conventions and the intention is not to impose upon them a rigid style, but rather to establish a framework within which they can operate.

The online version of this guide, available at www.blackwellpublishing.com/housestyle, will be updated on a regular and on-going basis and should be regarded as the definitive version.A separate guide is available for US journals.

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## PART 1: GENERALEDITING STYLE

### 1.1 Copy-editing

Journals and articles vary in the amount of editing required, depending on the thoroughness of the editor and the standard of the text supplied. Copy-editing usually involves:

- applying journal style
- applying Wiley-Blackwell house style where no specific journal convention exists
- formatting text
- making text consistent
- correcting English to ensure the article is readable


## STYLE AND FORMATTING

Check your journal style sheet for the styles of authors' names, addresses and affiliations, correspondence details, keywords, table and figure captions, etc., and for the formatting of text (e.g. use of small text in some sections).

## CONSISTENCY

The following should all be used consistently: UK/US spellings, alternative spellings, grammar, punctuation, italics, Greek letters, diacritics, hyphenation, capitalization, abbreviations and contractions. References and their citations should be consistent and complete. Make sure that all figures and tables are present and match their legends, and that they are cited in order.

## CORRECTION OF ENGLISH

You may need to correct spelling, punctuation, grammar and syntax, and to edit for sense. If text is ambiguous, add a query to the author asking for clarification. Do not rewrite or delete large sections of text.

### 1.2 English Usage and Grammar

## VOICE

The tendency to present scientific text in the passive voice is fading. Most Wiley-Blackwell journals and readers now accept use of the active voice. Unless the journal has a strict requirement for the active or passive voice, follow the authors' preference, as long as this is consistent within the manuscript.

Be wary of the passive voice in the Discussion, as it can sometimes be unclear whether the authors are talking about their own work or that of other people. You may need to use phrases such as 'in the present study, it was found that ...' to clarify this.

## TENSE

Methods used and results obtained by the authors should be referred to in the past tense:

- mice were given two types of grain
- mice in group A ate 50 mg of grain

The past tense will therefore generally be employed in the Abstract, Methods and Results sections. The past tense should also be used to talk about specific findings of previous work:

- Smith (1990) found that yield decreased by $50 \%$

Interpretation of results should be in the present tense:

- the results for groups A and B are significantly different

The present tense will therefore generally be employed in the Introduction (except, for example, when the authors are stating what their hypothesis and aims were before the study commenced). The present tense should also be used in the Discussion when the results are being interpreted:

- Our study shows that a significant number of Finnish people speak Finnish

Findings of previous studies should also be referred to in the present tense if they have become generally accepted 'facts':

- treatment X results in Y, as demonstrated by Jones (1978)
- the expression of class I genes varies amongst haplotypes

Watch for mistakes in the use of tenses in manuscripts from non-native English speaking authors (native English speakers tend to use the correct tense instinctively).

## SUBJECT AND VERB AGREEMENT

Verbs must agree in number with the sense and form of the subject. Check whether a noun is plural or singular and make sure that the verb agrees.

- Collective nouns, e.g. school, number, family and committee, usually take singular verbs but can take plural verbs if the emphasis is on the individual rather than on the unit itself, e.g. the committee has agreed to extend the deadline; the committee have been at odds from the beginning.
- Note the difference between mass nouns (which do not have countable elements) and count nouns (which identify things that can be counted), when used with pronouns (all, any, none, some), e.g. some of the sky was visible; some of the stars were visible.
- Units usually take singular verbs, e.g. 150 mL of blood was sampled.
- Take care with Latin and Greek nouns such as data, media, errata, criteria and phenomena, which are plurals; singulars are datum, medium, erratum, criterion and phenomenon (an exception is data processing): data are presented; dual-medium filters were used; two phenomena were classified using one criterion.


## USE OF THAT AND WHICH

That is used for defining or restrictive clauses:

- The patient made a list of the symptoms that were most troublesome

A defining clause is specific (limiting) to a particular person or thing; i.e. the patient had to list only those particular symptoms that were most troublesome.

Which is used in nondefining or nonrestrictive clauses:

- The patient made a list of the symptoms, which were most troublesome

A nondefining clause is general (nonlimiting); it provides additional information, and the use of commas is often important. In this example, all the symptoms were very troublesome.

## DANGLING PARTICIPLES

These frequently occur where the passive voice is used, and they can link an action to an agent that is incapable of performing it. The clause 'the ribosomes could be observed using a microscope' should be reworded: 'the ribosomes were observed by using a microscope' or 'using a microscope, the ribosomes were observed'.

## REDUNDANCY

Avoid using a modifying word when the intended meaning is inherent in a word already used. Redundancy is obvious in examples such as the results were plotted graphically, past history, bright blue in colour, inactivates its activity and completely filled. Does the term careful monitoring suggest that the alternative is careless monitoring?

## DEFINITE AND INDEFINITE ARTICLES

Many non-native English speaking authors have some confusion about when to use the definite (the) and indefinite ( $a$ and $a n$ ) articles.
$X \ldots$ to determine effect of the salinity on grain yield of wheat
$\checkmark \ldots$ to determine the effect of salinity on the grain yield of wheat
Also be aware that use of definite and indefinite articles in titles can differ from that in ordinary text:
$\checkmark$ Effect of Salinity on Grain Yield of Wheat
See the recommended usage guides for guidance on the use of the indefinite article with words beginning with 'h' (e.g. a hotel; an hour).

## INACCURATE PHRASES

Be accurate in your word choice. For example, dose is the amount of drug given at one time; dosage is the regulation or determination of doses.

## USE OF 'ONLY'

The position of the word 'only' can lead to ambiguity, e.g. 'the doctor only sees patients in the morning' could mean 'only the doctor sees patients in the morning'; 'the doctor sees patients in the morning only', or 'the doctor sees only patients in the morning'.

## BALANCING A SENTENCE

It is important to ensure that a sentence balances on either side of certain words (correlatives) that emphasize similarity or contrast and that are used in parallel: both and and; either and or; neither and nor; not only and but; between and and; whether and or. For example, 'I swam both in the morning and afternoon' should be'I swam both in the morning and in the afternoon' or 'I swam in both the morning and the afternoon'. Note the position of the preposition in. (See also the section 'Editing for Sense'.)

## COMPARATIVES AND SUPERLATIVES

- If you are comparing two things, or two groups of things, or one thing with a group of things, you should use a comparative, not a superlative.
$X$ Jim is tallest compared with David, John and Mike
$\checkmark$ Jim is the tallest of the four men
$\checkmark$ Jim is taller than David, John and Mike
- Do not use 'relatively' with a comparative, e.g. relatively less. This is tautology;'relatively' should be deleted.
- Make sure that it is clear what is being compared with what (e.g.' in patient 3 , there was greater reactivity for P. gingivalis in dental plaque from the first molar'... Is 'greater' being used to compare patients, bacteria or sites in mouth?).


## MISCELLANEOUS POINTS

'Male' and 'female' are adjectives, so be careful to use them as such (i.e. a male patient and a female frog, but a 35-year-old man, a French woman and a group of 25 men and 35 women). Many authors get this wrong.

## EXPRESSIONS TO AVOID

- Since should be used only with reference to time, and not for because.
- Although is preferred to though.
- Done, as in the experiment was done, should be replaced with performed or carried out.
- Parameter should only be used to describe a defining limit, and is not interchangeable with variable.
- A lot of should be replaced with many or, preferably, should be defined more precisely.
- Avoid get and got.
- As a result of or because of are preferred to due to.
- Hopefully should be avoided.
- Try to avoid references in the text to see below or in the Results section.
- Use dependency only for foreign territories; otherwise use dependence.


## USE WITH CAUTION

Be aware of potentially litigious content, for example the naming of patients or criticism of the actions of individuals, organizations or companies.

## POLITICALLY SENSITIVE TERMS

## Race and ethnicity

Try to avoid the terms Blacks and Whites; use instead Black people, White people, etc. Caucasian, Mongoloid, Negroid, etc. are generally to be avoided, except in human population studies. Mixed race is preferable to half-caste or coloured.

## Disabilities

- People with disabilities not the disabled
- People with learning difficulties not mentally handicapped


## Gender

Use neutral nouns: avoid the use of man if not specifically referring to men; for example, for man use humans; for mankind use the human race; for manpower use workforce; for manmade fibre use synthetic fibre. Use inclusive pronouns: use he or she, or rephrase the sentence (rephrasing to the plural form often works):
$X$ Any observer of changes in publishing technology will perceive that he has need of...
$\checkmark$ Observers of... will perceive that they have...
Beware of referring to people with stereotypical pronouns (e.g. 'the doctor treated his patient'; 'the secretary tidied her desk'). Social classes and age groups should also not be stereotyped.

## Disease

Avoid health-determined categorization. Use people with diabetes not diabetics; people with cancer not cancer sufferers, etc. Avoid phrasing that dehumanizes a patient: many authors use case (instance of a disease) when they mean patient (person who is ill with the disease).

## AIDS

- Ensure that AIDS is used for the disease and HIV for the virus, e.g. do not use AIDS carrier, AIDS positive, AIDS virus or catching AIDS.
- AIDS sufferer/victim is inappropriate; use people with AIDS.
- People who practise high-risk activities not high-risk groups.
- The expression full-blown AIDS is unnecessary if the correct distinction has been made between HIV and AIDS.


## Sexuality

Avoid the terms homosexual activities (specify which activity is being referred to) and homosexuals (specify homosexual men or lesbians).

## Geography

The terms Third World, poor countries and underdeveloped countries should be avoided. Developing or nondeveloped country/society is better, but it is best to specify countries or regions instead. Western society and Western World should only be used in relation to geography; otherwise, use developed world/society or, even better, specify the countries themselves or the region.

## Key points

- It is now acceptable to use the active or the passive voice.
- Use the past tense for the author's methods and results, and the present tense for interpretation and generally accepted 'facts'.
- The subject and verb must agree in number.
- 'That' is defining;' which' is not.
- Check that articles ('a,' 'an' and 'the') are used correctly.
- Sentences must balance (e.g. with 'both... and...').
- In comparisons (e.g. with lower/higher/less/more), make sure it is clear what is being compared with what.
- Avoid sexist, dehumanizing and stereotypical language.


### 1.3 Editing for Sense

You do not need knowledge of the subject matter to be able to edit for sense. Often it will be obvious what the author is trying to say, in which case you do not need to add a specific query (e.g. 'with this investigation the effects of antibiotic treatment were inquired' can safely be changed to 'in this investigation, the effects of antibiotic treatment were investigated'). However, if you are having to make substantial changes, add a query to the beginning of the article telling the authors that text has been reworded throughout and asking them to check carefully.

Be very careful not to change the meaning. It should always be your goal to make only the changes that are necessary. If in doubt, leave unchanged and ask the author for clarification.

## AMBIGUOUS TEXT

When text is ambiguous, the intended meaning is sometimes obvious from the context and rewording is straightforward. If this is not the case, you must query the authors. It is best, if you can, to give them two (or more) choices rather than just asking what they mean.

Phosphorylated hexoses: glucose-6-P and fructose-1-P, repress the expression of many resistance genes.

Query Do you mean 'Phosphorylated hexoses, such as glucose-6-P and fructose-1-P, repress the expression of many resistance genes' or 'The phosphorylated hexoses glucose-6-P and fructose-1-P repress the expression of many resistance genes' or something else?

Misplaced modifiers (words or phrases that limit or qualify the sense of text) can create ambiguity about what they are modifying.
$X$ She continued editing after the meeting finished early because she had to send the issue to the typesetter
$\checkmark$ Because she had to send the issue to the typesetter, the meeting finished early and she continued editing
$\checkmark$ After the meeting finished early, she continued editing because she had to send the issue to the typesetter

## NON SEQUITURS

Look out for text that does not logically follow what goes before (e.g.'humans and mammals...' should be changed to 'mammals, including humans, ...' because humans are mammals).
$\boldsymbol{X}$ Forage turnip is widely grown in northern Europe, but it is distributed over much of northern Asia, northern North America and southern Oceania.
$\checkmark$ Forage turnip is widely grown in northern Europe and is also distributed...
Sometimes it is not clear what the author means to say.
The sensitivity of barley seedlings changed after 4 weeks of cold treatment, but decreased after 6 weeks.

Query Do you mean 'The sensitivity of barley seedlings began to decrease after 4 weeks... and decreased further after 6 weeks' or 'The sensitivity of barley seedlings increased after 4 weeks.... but decreased after 6 weeks'?

These results are in conformity with the results of Smith et al. (1984). This provides acid production in vitro observed over a period of time by Jones (1980) also.

Change These results are consistent with those of Smith et al. (1984). They also provide an explanation for the acid production in vitro observed over a period of time by Jones (1980).

Query 'These results...' Rewording of two sentences OK?

## BALANCING SENTENCES

Use parallel grammatical constructions with conjunctions (and, but, etc.) and in comparisons. $X$ the titre in week 2 increased by $50 \%$ for patient 1 , and by $60 \%$ for patient 3 in week 4 $\checkmark$ the titre increased by $50 \%$ for patient 1 in week 2 , and by $60 \%$ for patient 3 in week 4
$\boldsymbol{X} \ldots$ to evaluate the relationships between clinical (e.g. stroke impairment, functional status, depression, and side of stroke lesion) and sociodemographic (e.g. age, gender, marital status and emotional support) factors
$\checkmark$... to evaluate the relationships between clinical (degree of stroke impairment, functional status, presence/absence of depression and side of stroke lesion) and sociodemographic (age, gender, marital status and extent of emotional support) factors
$X$ Detection of immunostained proteins by light microscopy is not as clear as electron microscopy
$\checkmark$ Detection of immunostained proteins by light microscopy is not as clear as that by electron microscopy

## PRONOUNS

Watch out for pronouns that refer back to the wrong noun.
The pellet was dissolved in 100 mL of distilled water. It was then filtered through Whatman no. 41 paper.

Change 'It' to e.g.' 'This solution' ('the pellet' can't be filtered!).

## FEWER/LESS

Although more can be used for both countable (e.g. more stars) and uncountable (e.g. more rain) nouns, fewer must be used for countable nouns (e.g. fewer stars, fewer cups of tea, fewer examples) and less for uncountable nouns (e.g. less rain, less tea, less information).
$\boldsymbol{X}$ Less people
$\checkmark$ Fewer people

## STRONG/WEAK, HIGH/LOW AND LARGE/SMALL

Authors sometimes make the wrong choices here.
$\boldsymbol{X}$ the values of $r$ were strong
$\checkmark$ the values of $r$ were high
$X$ there was a low correlation
$\checkmark$ there was a weak correlation

## MISCELLANEOUS PROBLEMS

- Words missing

The sorbitol and xylitol interaction on sugar metabolism was greater at higher pH .
Change The effect of the sorbitol and xylitol interaction on sugar metabolism was greater at higher pH .
In this study the relationship between plant resistance to fungi and some physiological processes.
Change In this study, the relationship... was investigated.

- Words wrong

Barley companion crop reduced weed content of herbage by $39-94 \%$ related in sowing rate and cutting stage.
Change The barley companion crop reduced the weed content of herbage by $39-94 \%$ depending on the seeding rate and cutting stage.

- Strange wording

All patients were examined and interviewed on a hospital basis.
Change (and query) All patients were examined and interviewed in hospital.

- Wrong subject and verb

Harvest date in barley gave different effects depending on seeding rates.
Change (and query) In barley, the effect of harvest date depended on the seeding rate.

- Adjective with wrong noun
the highest patient for recovery score
Change (and query) the patient with the highest recovery score
- Typos

The weed forms its own pure colonies at the expanse of native gasses
Change (and query) ... at the expense of native grasses

## Key points

- If text does not make sense or is likely to cause the reader problems, change it and, if necessary, add a query to the author.
- Look out for ambiguous text and non sequiturs.
- Make sure parallel grammatical constructions are used with conjunctions and in comparisons.
- Pronouns must refer back to the correct noun.
- Fewer/less, strong/high/low and weak/low/small are often used incorrectly.
- Check that subject/verb and noun/adjective pairs make sense (e.g. in 'the highest patient for recovery score', the adjective has been attached to the wrong noun).


### 1.4 Spelling

Spelling should be consistent within an article. When two or more spellings of a word are given in a dictionary, the first listed is generally the one preferred.

## UK/US ENGLISH

In the following examples, the UK spellings are shown to the left of the double arrows and the US spellings to the right.

```
ae- ↔ e-
aetiology ↔ etiology
caesium }\leftrightarrow\mathrm{ cesium
haemoglobin }\leftrightarrow\mathrm{ hemoglobin
leukaemia ↔leukemia
palaeoenvironment }\leftrightarrow\mathrm{ paleoenvironment
```

```
oe- ↔ e-
diarrhoea }\leftrightarrow\mathrm{ diarrhea
dyspnoea }\leftrightarrow\mathrm{ dyspnea
manoeuvre }\leftrightarrow\mathrm{ maneuver
oedema ↔ edema
oesophagus }\leftrightarrow\mathrm{ esophagus
oestrogen }\leftrightarrow\mathrm{ estrogen
```

-lled $\leftrightarrow$-led, -lling $\leftrightarrow$-ling
labelling $\leftrightarrow$ labeling
modelled $\leftrightarrow$ modeled

```
-our ↔-or
behaviour }\leftrightarrow\mathrm{ behavior
colour (but coloration) ↔ color
neighbour }\leftrightarrow\mathrm{ neighbor
tumour }\leftrightarrow\mathrm{ tumor
```

adrenaline $\leftrightarrow$ epinephrine (Adrenalin = US trade name)
ageing $\leftrightarrow$ aging
alternative $\leftrightarrow$ alternate
aluminium $\leftrightarrow$ aluminum
amongst $\leftrightarrow$ among
cyclosporin $\leftrightarrow$ cyclosporine
despatch $\leftrightarrow$ dispatch
disc $\leftrightarrow$ disk (NB always disk for computers)
dysrhythmias $\leftrightarrow$ arrhythmias
fulfil $\leftrightarrow$ fulfill
leucocyte $\leftrightarrow$ leukocyte

```
-ical ↔-ic
anatomical }\leftrightarrow\mathrm{ anatomic
biological }\leftrightarrow\mathrm{ biologic
geographical }\leftrightarrow\mathrm{ geographic
immunological }\leftrightarrow\mathrm{ immunologic
```

```
-logue }\leftrightarrow-lo
analogue }\leftrightarrow\mathrm{ analog
(except`analog-digital conversion')
catalogue }\leftrightarrow\mathrm{ catalog
```

```
-re ↔-er
centre}\leftrightarrow\mathrm{ center
fibre\leftrightarrowffiber
litre}\leftrightarrowlite
metre (the unit) \leftrightarrowmeter
titre }\leftrightarrow\mathrm{ titer
```

```
-yse ↔-yze
```

-yse ↔-yze
analyse }\leftrightarrow\mathrm{ analyze
analyse }\leftrightarrow\mathrm{ analyze
catalyse }\leftrightarrow\mathrm{ catalyze
catalyse }\leftrightarrow\mathrm{ catalyze
dialyse }\leftrightarrow\mathrm{ dialyze

```
dialyse }\leftrightarrow\mathrm{ dialyze
```

licence (noun) $\leftrightarrow$ license
mould $\leftrightarrow$ mold
neurone $\leftrightarrow$ neuron
noradrenaline $\leftrightarrow$ norepinephrine
orientate $\leftrightarrow$ orient
practise (verb) $\leftrightarrow$ practice
programme $\leftrightarrow$ program (and UK for computers)
quantify $\leftrightarrow$ quantitate
quantification $\leftrightarrow$ quantitation
skilful $\leftrightarrow$ skillful

## S VERSUS Z SPELLING

| S spellings | exercise |
| :--- | :--- |
| advise | expertise |
| arise | franchise |
| chastise | improvise |
| circumcise | incise |
| comprise | revise |
| compromise | supervise |
| concise | surmise |
| despise | surprise |
| devise | televise |
| excise | treatise |


| Z spellings | hypothesize |
| :--- | :--- |
| agonize | metabolize |
| civilize | minimize |
| colonize | pasteurize |
| criticize | realize |
| emphasize | recognize |
| equalize | stabilize |
| familiarize | standardize |
| finalize | summarize |
| generalize | temporize |
| globalize | vaporize |

## FOREIGN LANGUAGES

## Accents and diacritical marks

These are marks attached to letters of the alphabet that show (i) how the pronunciation differs from that of the unmarked letter, (ii) where the stress falls in a polysyllabic word or (iii) what tone or pitch goes with a particular word.

- German Use $ß$ (eszett) for ss, but only in lower case (and note that not all ss are $ß$ ); in caps (and small caps), SS is always used. Use umlauts over ä, ö and ü rather than using the respective diphthongs ae, oe and ue. Remember that, in German, all nouns have initial caps (e.g. ein Haus, das Sein) and they should retain these when italicized.
- French Upper-case letters carry accents, e.g. RÉSUMÉ. The exception is the preposition à, e.g. A la porte.
- Scandinavian characters should be alphabetized as follows:
...Z,Æ, Ø, $\AA$ (Danish, Norwegian)
...Z, $\mathbf{p}$, Æ, Ö (Icelandic)
$\ldots . Z, \AA$, Ä, Ö (Finnish, Swedish)


## Foreign names

Take care with the capitalization of particles in foreign names (e.g. Philippe Du Puy de Clinchamps, Vasco da Gama, Vincent van Gogh). These appear in lower case except at the start of a sentence or when the name is anglicized. Generally, just use what the author provides. In reference lists, lower case particles are listed under the letter of the name proper but upper case particles under the letter of the particle (e.g. da Silva under ' $S$ ' but Von Trapp under ' $V$ '). Do not abbreviate 'Saint' and 'Sainte' in French surnames. Some Japanese and Chinese names are presented with the surname first, so be careful when filing these in a reference list. Spanish and Portuguese names are sometimes composed of two family names (mother's and father's) and should be listed under the penultimate element (e.g. Federico Gutierrez Granier should be listed under Gutierrez).
Hyphenated Asian names do not take a full point after the first initial (e.g. Jen-Yi Hwang is J-Y. Hwang not J.-Y. Hwang; cf. Jean-Marc Lafayette, which is J.-M. Lafayette).

## RECOMMENDED SPELLING GUIDES

- UK spelling: Concise Oxford Dictionary
- US spelling: Merriam-Webster's Collegiate Dictionary
- Australian spelling: Macquarie Dictionary
- See The Chicago Manual of Style for information on capitalization, punctuation and word division in foreign languages.


### 1.5 Punctuation

Punctuation should be used to help the reader understand the text.

## COMMAS

| Context | Examples |
| :---: | :---: |
| Not essential where a conjunction is used between two clauses unless there is a change of subject | We tried to resuscitate the patient but to no avail. Resuscitation is possible, but brain damage is likely. |
| Used to isolate a word, phrase or subordinate clause | Resuscitation, although dangerous, is possible. <br> On revival, the patient was monitored regularly. <br> ... days 3, 4 and 10, respectively. <br> Therefore, the experiment was.... |
| Used to isolate nondefining clauses | The cells, which were infected, were excised. <br> The commas help to isolate the nondefining clause (see differences between 'that' and 'which' above). |
| Not used to separate sentences | $\boldsymbol{x}$ The cells produced more lactate, however they did not produce acetate. <br> $\checkmark$ The cells produced more lactate; however, they did not produce acetate. |
| Used in lists | The solution contained 200 mg of glucose, 100 g of ascorbic acid and 500 mL of distilled water. <br> UK English: a comma before 'and' (known as the Oxford comma or serial comma) is unnecessary in the above example, but it may be used in lengthy lists or to avoid ambiguity. <br> US English: authors prefer to place a comma before the 'and' here. |
| 'Therefore' should not be enclosed within commas when used as an adverb | These samples were therefore discounted. |
| Used to clarify a sentence | The precipitate formed after shaking on the bottom makes more sense with the addition of commas, thus: <br> The precipitate formed, after shaking, on the bottom. |

## APOSTROPHES AND PRIMES

Apostrophes should be used to identify possessive nouns, e.g. the body's defence system, the girls' hats. Such words ending in 's' should still be followed with an apostrophe 's', e.g. Claudius's reign. An apostrophe should not be used where an acronym, abbreviation, date or number is pluralized: ANOVAs, 1980s, etc. Where apostrophes are used to indicate missing letters in informal English (e.g. I'm, we're, he's; it's not clear; there're many patients; it's been found), it is usually preferable to write the words out in full (e.g. it is not clear; there are many patients; it has been found).

Look out for its (possessive; e.g. its tail) and it's ('it is' or 'it has'; e.g. it's got a tail).

```
St Thomas'Hospital
Queens' College, Cambridge
The Queen's College, Oxford
```

Primes (') are used to denote derivatives of mathematical variables (e.g. $a$ and $a^{\prime}$ ) and for minutes of angle (e.g. $12^{\circ} 14^{\prime} \mathrm{N}$ ). They should not be used instead of the standard abbreviation 'min' for minutes of time.

## HYPHENS

Journals will often have a specific hyphenation style, for which you should refer to your journal style sheet. Also check the relevant dictionary if necessary. Make a decision about hyphenation and apply it throughout the typescript, taking into account the author's style, the likely readership, and the meaning of individual words and phrases. Minimal hyphenation is generally preferred.

## Prefixes

DO hyphenate... prefixes that stand as words in their own right (e.g. cross, half, all); these are usually hyphenated when used as adjectives (e.g. cross-section, half-life, all-inclusive). There are, however, more than a few exceptions (e.g. outpatient, crosshatched, overexposed). Hyphens are also needed when a prefix is attached to a word or phrase starting with a capital letter (e.g. antiHLA, non-Euclidean, sub-Alpine).

DO NOT hyphenate... prefixes that cannot stand as words in their own right (e.g. anti, bi, co, hyper, hypo, infra, inter, intra, micro, multi, palaeo, peri, pre, pseudo, re, sub, supra, ultra, uni); these are usually closed up when used as adjectives, unless two vowels or the same consonants abutt (e.g. hyper-reactive, pre-operative, anti-inflammatory, co-opted, re-election; NB US authors are less inclined to use hyphens in such cases). Note, however, that this rule may need to be broken (e.g. ultra-high-vacuum environment, pseudo-first-order distribution, re-create). If in doubt, follow the author's style.

## Compound terms

DO hyphenate... many compound terms and adjectives (e.g. iron-rich sediments; salt-leached water; 19 -year-old boy but boy aged 19 years; T -cell receptor but T cell), particularly where the meaning would otherwise be ambiguous. In more complex examples, the second hyphen normally has priority over the first (e.g.'T cell-receptor expression' would often be preferred to 'T-cellreceptor expression'; but ' 10 -cm-diameter pots', not ' 10 cm -diameter pots'). The second part of a compound term used in a book case heading should not be capitalized (e.g. Subject-specific Conventions).

DO NOT hyphenate... compound adjectives consisting of a past participle preceded by an adverb ending in '-ly' (e.g. dermatologically tested soap). It is not necessary to use hyphens for wellestablished compound terms whose meaning is clear (e.g. amino acid residues, freezing point determination). Avoid floating hyphens (e.g. phosphorus- or sulphur-containing compounds). Try to reword the sentence to eliminate the need for the floating hyphen, but be careful not to change the sense (e.g. if the hyphen is removed after 'phosphorus' in the sentence above, the sense changes).

## Chemical names

Hyphens are often used in chemical names (e.g. 2-mercaptoethanol, al-antitrypsin).

## Miscellaneous

- Avoid bad word breaks at the ends of lines (e.g. pseud-obedding; the-rapist)
- 10 -fold but twofold
- Two-thirds, thirty-seven
- North-west
- Inpatient and outpatient (not hyphenated)


## EN/EM RULES

Authors often confuse en/em rules and hyphens.

| For | You should use | Example |
| :--- | :--- | :--- |
| A number or value range | En rule | $5-10$ (but'from 5 to 10', not'from 5-10') |
| Chemical mixtures/bonds that <br> have retained their individual <br> properties and have not <br> become a new compound | En rule | DEAE-cellulose |
| Long chemical names, by <br> convention | Hyphen | 2-isopropyl-(3,4)-dihydro(carbodiimide)purine |
| Two names associated with a <br> process, invention, syndrome <br> or company | En rule | Epstein-Barr virus <br> Hardy-Weinberg equilibrium |
| A compound expression in <br> which the first part of the <br> compound does not modify <br> the second part | En rule | dermal-epidermal junction <br> dose-response curve <br> case-control study |
| A compound expression in <br> which the first part is a prefix | Hyphen | Dermo-epidermal junction |

continued

$\left.$| For | You should use | Example |
| :--- | :--- | :--- |
| Complex associations | Hyphen and en rule <br> or <br> hyphen and solidus | oak-forest-hazel-scrub interaction <br> or <br> oak-forest/hazel-scrub interaction |
| Compound expressions that <br> already contain hyphens | 'To' <br> not <br> en rule | En rule or em rule | | 5- to 10-day interval |
| :--- |
| not for 'not tested' |
| 5-10-day interval | \right\rvert\, | Em rule | Rarely, it may be journal style in reference lists <br> to indicate the same author(s) as the previous <br> entry by em rules. <br> Smith, B., and P.G. Pardey. The economics of... |
| :--- | :--- | :--- |
| Missing words or letters | —. Funding, structure and management... |

## SEMICOLONS

- The semicolon is stronger than a comma but not as decisive as a full point. It can be used to separate sentences (whereas a comma cannot).
- Use a semicolon before, and a comma after, the conjunctive adverbs however, that is, nevertheless, etc.


## COLONS

Colons are used to introduce material that restates, explains, enlarges upon or summarizes previous material. They also introduce items in a list set off from text (but a colon is not needed in run-on lists introduced by the words for example, namely, including, etc.; e.g. in the sentence 'The pavlova looks nice with red fruit on it, for example: strawberries, raspberries and redcurrants' the colon should not be there).

- In UK spelling, a capital letter is not used after a colon (except in titles and subtitles). In US spelling, if the material introduced by a colon consists of more than one sentence, or if it is a formal statement, quotation or speech in dialogue it should take a capital after the colon.
- Ratios containing words should have a thin space on each side of the colon (e.g. the light : dark cycle) but ratios containing numbers should be closed up (e.g. 16:8 h).


## Key points

- Use commas to clarify sentences.
- Do not use a comma to separate sentences; use a semicolon (this is a particularly common error before 'however' and 'nevertheless').
- Do not use apostrophes with plural abbreviations (e.g. ANOVAs, not ANOVA's).
- For hyphenation, refer to your journal style sheet.
- Do not hyphenate adverbs ending in -ly (e.g. dermatologically tested soap).
- Use hyphens in compound terms to clarify meaning (e.g. six-well plates).
- Use en rules, not hyphens, for associations (e.g. dose-response curve).


### 1.6 Units

Check your journal style sheet for the use of units (e.g. some journals use a negative index and some use a solidus to indicate per).

## DO USE

- Abbreviations for seconds (s), milliseconds (ms), minutes (min), hours (h), million years ( Myr ), million years ago ( Ma ) and billion years ago ( Ga ). (Exceptions in running text are e.g. 5 minutes' walk and five-minute start.)
- A hyphen with units as adjectives (e.g. $30-\mathrm{cm}$ ruler, $2-\mathrm{min}$ test, $5-\mathrm{kb}$ fragment), unless this is not journal style.
- Either a solidus (/) or a negative index $\left({ }^{-1},{ }^{-3}\right.$, etc.) for per (e.g. $5 \mathrm{~m} / \mathrm{s}$ or $\left.5 \mathrm{~m} \mathrm{~s}^{-1}\right)$.
- Figures for quantities that are measured in units, but words for numbers of objects less than 10 (e.g. 5 years but five dogs; also fifth but 15th). However, it may be better to break this rule if an inventory of objects is presented (e.g. 13 cats, 8 dogs and 24 mice).
- En rules for ranges of values (e.g. 15.4-27.6 g), except for values used with linked prepositions (e.g. between... and).
- Système International (SI) units, unless instructed otherwise.
- Closed-up figures for numbers in the single-digit thousands (1000-9999), and thin spaces in UK English for numbers of five figures and over (US English uses commas not spaces) (e.g. $12624,200000000)$. However, it is usually preferable to express large numbers using factors of 10 (e.g. $3.75 \times 10^{7}$ cells/L).
- A unit term as a singular entity when considering subject-verb agreement (e.g. 5 g was...).
- Numbers and their units in full at the start of a sentence (e.g. Fifty-eight kilograms of grain...).
- Thin spaces between numbers and units, and between units (e.g. $10 \mathrm{~min}, 6.5 \mathrm{~W}, 20^{\circ} \mathrm{C}$, $47.6 \mathrm{~m} / \mathrm{s} 5 \mathrm{mg} \mathrm{mL}^{-1}$, but $4 \%$ and sometimes $20^{\circ} \mathrm{C}$ ).


## DO NOT USE

- Abbreviations for days, weeks, months and years.
- Acre; use hectare ( 1 acre $=0.4047 \mathrm{ha}$ ).
- Ångström; use nanometres ( $1 \AA=0.1 \mathrm{~nm}$ ).
- Calorie; use joules ( $1 \mathrm{cal}=4.186 \mathrm{~J}$ ).
- $\times$ before gravitational force (e.g. 15000 g not $15000 \times \mathrm{g}$ ). Also, do not use r.p.m. as the unit for gravitational force, except for ultracentrifugation, where r.p.m. is usually given together with the centrifuge model and manufacturer and the rotor code (e.g. SS34).
- En rules with linked prepositions (from and to; or between and and) (e.g. between 10 and 15 days, not between 10-15 days).
- m for micron; use $\mu \mathrm{m}$.
- N or N (small caps) for normal concentration: ask authors to provide the molar concentration.
- p.p.b. for parts per billion; use ng/g.
- p.p.m. for parts per million; use $\mathrm{mg} / \mathrm{g}$.
- Percent. Use either \% or per cent.
- A unit term as a plural (e.g. 10 mL was... not 10 mL were...).
- Repeated units (e.g. between 10 days and 15 days should be written between 10 and 15 days).
- Superfluous material in units. For example, in the expression 'organic carbon at a concentration of 56 mg C/L' the symbol for carbon is superfluous in the unit; 'organic carbon at a concentration of $56 \mathrm{mg} / \mathrm{L}$ ' is sufficient.
- Lots of zeros in numbers. Add unit prefixes so that values are $\geq 1$ and $<1000$ (e.g. $0.081 \mathrm{~g} / \mathrm{L}$ should be changed to $81 \mathrm{mg} / \mathrm{L}$, and $1.67 \times 10^{-7} \mathrm{~m}$ to 167 nm ). However, always inform the author/editor of such changes and seek their approval.
- Expressions such as $20 \mathrm{mg} / 100 \mathrm{~mL}$; use $200 \mathrm{mg} / \mathrm{L}$.


## MISCELLANEOUS UNITS

CFU colony-forming units
Da daltons (do not use d)
IU international units
L litre; this is now preferred to 1
(lower-case L)

## Unit prefixes

| m | milli $\left(10^{-3}\right)$ | k | $\operatorname{kilo}\left(10^{3}\right)$ |
| :--- | :--- | :--- | :--- |
| $\mu$ | micro $\left(10^{-6}\right)$ | M | $\operatorname{mega}\left(10^{6}\right)$ |
| n | nano $\left(10^{-9}\right)$ | G | $\operatorname{giga}\left(10^{9}\right)$ |
| p | pico $\left(10^{-12}\right)$ |  |  |

$\mathrm{mL}=$ millilitre $=\mathrm{cm}^{3}$ (do not use cc )
mmHg millimetres of mercury only in medical work; otherwise, use pascals ( $1 \mathrm{mmHg}=133 \mathrm{~Pa}$ )

## MOLE AND MOLAR

It is recommended that you use mol for mole and $\mathrm{mol} / \mathrm{L}$ or $\mathrm{mol} \mathrm{L}^{-1}$ for molar. However, some styles use M for mole and M (small caps) for molar.

## Key points

- There should be a thin space between numbers and units (e.g. 10 days), or a hyphen in compound adjectives (e.g. 10-day cycle).
- For per, use a solidus or a negative index, depending on journal style.
- For quantities, use figures (e.g. 5 mL ); for numbers of objects less than 10 , use words (e.g. five patients).
- A unit term is singular (e.g. 10 mL was added...).
- Do not use en rules with linked prepositions (e.g. between 10 and 15 days, not between 10-15 days).
- Do not repeat units unnecessarily (e.g. not 10 days and 15 days).
- L for litre is now preferred to 1 .
- Use Da for daltons, not d.


### 1.7 Italics

To find out whether a word should be italicized, check the latest edition of the recommended dictionary. You should also refer to your journal style sheet for journal-specific usage (e.g. for et al. and variables such as $P$ ).

| DO italicize | DO NOT italicize |
| :--- | :--- |
| Foreign language phrases that are not in common <br> usage (e.g. ad libitum, en bloc, sensu lato). These are <br> better presented in italics than in inverted commas. | Foreign language phrases that are in common <br> usage (e.g. alias, per annum, vice versa). The fact <br> that a word has made it into an English dictionary is <br> a good indication that it is familiar (or at least can <br> be looked up), so it can be set in roman. |
| Book and journal titles <br> Names of parties in legal cases | Names of people (except in legal cases), places or <br> institutions |
| Genus and species names <br> (e.g. Homo sapiens) | Family, order and class names <br> (e.g. Hominidae, Primates, Mammalia) <br> Modifiers to species names (e.g. cv., var., ex., ssp.), <br> and authorities (e.g. L.) |
| Abbreviations for genes <br> (e.g. ced-3 for the C. elegans cell-death gene) | Abbreviations for gene products <br> (enzymes/ protein) (e.g. CED-3) |
| Symbols and abbreviations that represent variables <br> (e.g. $x$-axis, $n$ ) | Symbols, abbreviations and whole words that <br> represent constants (e.g. e, $\pi$ ), functions <br> (e.g.f, exp,log) or modifiers (e.g. $\left.n_{\mathrm{a}}, n_{\mathrm{air}}\right)$ |
| Parentheses (like these) within italic text. | Parentheses around italic text (like these). |
| Italic words used in italic headings |  |
| (e.g. Preparations of P.gingivalis) |  |

## EXAMPLES

| a posteriori | mise-en-oeuvre |
| :--- | :--- |
| a priori | motif |
| ad libitum | née |
| bona fide | par excellence |
| debris | per annum; per capita |
| en bloc | post-mortem |
| in situ | raison d'être |
| in toto | role (not rôle) |
| in vitro; in vivo | sensu lato; sensu stricto |
| inter alia | tour de force |
| laissez-faire | via |
| levee | vice versa |

### 1.8 Quotations

Every quotation should be accompanied by a reference to its source (e.g. Author 2003).
Short quotations (<30 words) 'should run on within the normal sentence structure' (Author 2003). Use quotation marks to distinguish the quote, and, if appropriate, precede by a comma (for shorter quotations) or a colon (for longer quotations).

Long quotations ( $>30$ words) should be displayed.
Displayed quotations do not require quotation marks. They should be set smaller than normal text type and indented by the normal paragraph indent, with no extra space above or below.
(Author 2003)
The spelling, grammar, etc. of direct quotations is not edited. Check that direct quotations have not been changed by any macros that have been run on the paper. Use ' [sic]' (always in square brackets and italic) to signify a direct quote of an error.

Direct speech is the exact quotation of another person's words. Punctuation should be placed inside the quote marks when it belongs to the quotation or before mention of the speaker.

- 'This is an important finding', the Director-General said.
- He asked, 'Why did you do it?'

Punctuation should be placed outside the quote marks when it does not belong to the quotation.

- WHO declared TB ‘a global emergency’.


## SINGLE OR DOUBLE?

It is UK and Australian style to use 'single' quotation marks, with closing punctuation outside marks (unless it belongs to the quoted material), and "double" marks for quotes within quotes.

It is US style to use "double" quotation marks, with closing punctuation (except colons and semicolons) inside marks, and 'single' marks for quotes within quotes.

Use a thin space between single and double quotation marks if they occur next to each other.

### 1.9 Lists

An itemized list that is part of the text should continue the punctuation of the sentence that precedes it, so:

- if preceded by a colon the list should begin with a lower case letter;
- there should be a full point at the end of the sentence.

For long, complicated lists with internal sentences, each item of the list should start with an initial capital, in which case the sentence preceding the list should be rewritten to end in a full point.

1 Check your journal style sheet for the style of numbered lists. Often, a bold number followed by a tab is used. Lists within lists should be indented, and have a different style of numbering from the main list (e.g. Roman numerals).
2 Some styles have extra space above and below lists, but some do not.
3 Lists of definitions of abbreviations should be displayed or, if set in continuous text, should have individual entries separated by commas and semicolons, not equals signs (e.g. Y, young; M , middle-aged; O , old; VO , very old).

### 1.10 Footnotes

- See your journal style sheet for the formatting of footnotes. On the title page, there may be a mixture of footnotes using numbers and symbols (e.g. for author affiliations or 'correspondence' details), depending on the journal style.
- Check for consistency of footnote links in text/tables with the footnotes themselves.
- Footnote links should be placed after punctuation.
- The preferred order of footnote symbols (which should not be superscripted) is *, $\dagger, \ddagger, \S, \llbracket$ (these are doubled up if more footnotes are required, e.g. $\dagger \dagger$ ).
- When superscript numbers or letters are used, beware of potential confusion with other superscripts (e.g. ${ }^{2}$ for 'squared').


## IN TEXT

Footnotes in the text are not encouraged for journals that are full text online. Sometimes it may be possible to eliminate a footnote by moving the text it contains to the main body of the article, especially if the footnote is short and just adds extra details.
$\boldsymbol{X}$ We randomly selected 24 individuals from each of six groups. ${ }^{1}$ [Footnote: 1. Groups 3, 5, 11, 28, 30 and 34.]
$\checkmark$ We randomly selected 24 individuals from each of six groups (groups 3, 5, 11, 28, 30 and 34).

- Numbers in the text indicating footnotes should be superscripts (do not use parentheses, punctuation or slash marks). Numbers for the notes themselves should be on the line and followed by a full point.
- When a footnote is continued on the next page, there should be a hairline rule above it. Avoid beginning a continued footnote with a full sentence, as this will make it look like a separate footnote.
- If the first mention of an abbreviation occurs in a footnote, it should be defined there.


## UNDER TABLES

Footnote links. Notes about the table as a whole can be left unlinked (i.e. no linking letters/numbers/symbols) or linked to, for example, a relevant column heading. Notes about specific parts of the table should be linked using superscript lower case letters (preferred), superscript numbers or symbols (see Table 1 for examples). If lower case letters could be confused with the table data, use symbols or numbers instead. Avoid the use of superscript numbers in parentheses.

If an abbreviation is mentioned for the first time in a table (e.g. 'CE' in Table 1), it must be defined in a footnote to that table.

Asterisk footnotes are reserved for probability values in tables and usually signify the following values: *, $P \leq 0.05 ; * *, P \leq 0.01 ;{ }^{* * *}, P \leq 0.001$. The asterisk is often used in mathematics and should therefore be avoided as a footnote symbol.

## Order

Footnote links within the table itself should be ordered, according to first mention, across columns by row (see ${ }^{\mathrm{a}},{ }^{\mathrm{b}}, \mathrm{c}^{\mathrm{c}}$ in Table 1).

The actual footnotes should appear in the following order:

- source notes
- other general notes
- notes on specific parts of the table (following the order in the table itself)
- notes on level of probability

| Table 1. Ratios for wheat in 1989 |  |  |
| :---: | :---: | :---: |
| Group ${ }^{\text {a }}$ | First ratio | Second ratio |
| 1 | 1.31 | 4.56 |
| 2 | 6.57* | $33.87^{* * *}$ |
| 3 | 15.89** | 17.55 |
| 4 | ND ${ }^{\text {b }}$ | 2.35 |
| 5 | 10.66** | 2.13 |
| 6 | 67.43*** | 23.56* |
| $7{ }^{\text {c }}$ | 1.29 | ND ${ }^{\text {b }}$ |
| CE | 3.45 | 6.57* |
| Data were obtained from Smith (1990). <br> All yields were measured in April-June 1989. <br> CE, controlled-environment plots; ND, not done. <br> ${ }^{\text {a }}$ Each group consisted of three separate plots. <br> ${ }^{\text {b }}$ Pest infestation prevented data collection. <br> ${ }^{\text {}}$ The plots in Group 7 were not irrigated in April. <br> ${ }^{*} P \leq 0.05,{ }^{* *} P \leq 0.01$ and ${ }^{* * *} P \leq 0.001$, according <br> to a $t$-test |  |  |

### 1.11 Abbreviations

Keep the number of abbreviations in an article (particularly in the Abstract) to a minimum. If a term is not used often, do not use its abbreviation: it will not help readers if they have to search back through the article for its definition.

Use of abbreviations such as etc., i.e. and e.g. is best avoided in running text and is more suitable for use with parentheses.

```
Abbreviations are shortened forms of words or phrases.
Acronyms are abbreviations formed from the initial letter(s) of individual words in phrases. True acronyms
serve as pronouncable words (e.g. QANTAS, ANZAC, radar); others are technically called 'initialisms' (e.g.
ECG,LDL).
Contractions are abbreviations that include the first and last letters of a word (e.g. Ltd)
```


## DEFINING ABBREVIATIONS

Some abbreviations are so common that they do not need defining (e.g. DNA, PCR, d.f.). Whether to spell out or not will depend on the subject matter of your journal.

Define all other abbreviations (term in full followed by abbreviation in parentheses) on first mention in the Abstract, text, figure legends and table legends or footnotes; thereafter, use the abbreviation only, except at the beginnings of paragraphs (it is acceptable to use abbreviations at the beginnings of sentences). If abbreviations are defined in an Abstract, they must be redefined at first mention in the main body of the text. Do not define or use abbreviations in titles or headings.

When defining a series of abbreviations in legends, use commas and semicolons (e.g. Y, young; M, middle-aged; O , old). Never use equals signs in definitions.

## PUNCTUATION

## Full points

- Abbreviations that are all caps generally do not take full points (e.g. USA, NSW), but abbreviations that are all lower case or end with a lower case letter do (e.g. i.v., b.i.d., Co., Ed.).
- When referring to authors by their initials, use full points and thin spaces [e.g. 'One of the authors (D. M.D.)...'].
- Full points are not used at the end of contractions (e.g. St, Mr, Dr, Natl, Figs, Ltd) in UK English, but they are used in US English.
- When an abbreviation that takes a full point comes at the end of a sentence, another full point is not necessary.


## Apostrophes

An apostrophe should not be used when an abbreviation is pluralized, but it can be used to indicate possession.

## FORMATTING

Roman type is generally used for scholarly Latin abbreviations (see below for some common examples). The notable exception is et al., which is usually italicized.

There is no need to use capital letters in the full term (unless it is a proper name), even though the abbreviation might be in capital letters.

## NAMES

Abbreviations should not be used for given names (e.g. William not Wm). When a person is referred to by initials only (e.g. JFK), do not use full points. Titles should be spelt out before last names (e.g. General Washington) but abbreviated before full names (e.g. Sen. Robert A. Taft). 'Reverend' and 'Honourable' are only spelt out when preceded by 'the'. 'Jr' and 'Sr' are set off by commas after the name.

Agencies and organizations can be abbreviated in running text, in all caps with no periods (e.g. NAACP). They should be defined at first mention as usual.

## SOME COMMON EXAMPLES

For more examples, see The Chicago Manual of Style, the Concise Oxford Dictionary, Merriam-Webster's Collegiate Dictionary and subject-specific lists in this guide.

| Ms (not Mrs or Miss) |
| :--- |
| Bro., Bros, Co., Corp., Inc., plc, Pty, Ltd <br> (no need to spell out) |
| PO Box |
| Tel.: +44 (0) 1865240201 |
| Fax: +44 (0) 1865200918 |
| ed. (editor) |
| eds (editors) |
| edn (edition) |
| p. (page) |
| pp. (pages) |
| Suppl. (supplement) |
| Vol. (volume) |
| Eqn (equation; e.g. Eqn 2) |
| no. ('number' or'number of') |


| ISSN 1023-4567 (International Standard |
| :--- |
| Serial No.) |
| ISBN 0123456789 hardback (International |
| Standard Book No.) |
| CIP (Cataloguing in Publication) |
| etc. |
| e.g. and i.e. (use mainly in parentheses; comma |
| before but no comma after) |
| vs (use between numerals only; spell out in text) |
| ca (circa: use before dates instead of $\sim$ ) |
| cf. [compare with (confer imperative); use only in |
| parentheses] |
| viz. (namely; with comma before not after) |
| r.p.m. avoid - ask for $g$ value |
| 2D (two-dimensional) |

## Key points

- Define all abbreviations (except very common ones such as DNA) at first mention in the Abstract and again in the main text.
- Punctuate lower case (e.g. b.i.d.) but not upper case (e.g. USA) abbreviations.
- Do not use capitals in the full term (e.g. LSD stands for least significant difference).


### 1.12 Time

## DATES

- In UK English, dates are given in the form 24 August 1964 (24/8/64). In US English, the form August 24, 1964 (8/24/64) is used.
- Do not use ordinal numbers in dates (e.g. $1 \mathrm{st}, 11$ th, 22 nd or 23 rd ). For year ranges, use an en rule and do not elide (e.g. 1995-1999 not 1995-99). Decades should be written as e.g. 1960s not 1960's or '60's.
- For centuries, use the form 18th century.

AD Anno Domini (e.g. AD 1945)
BC before Christ (e.g. 3000 BC )
BP before present (e.g. 10000 BP , not 10000 years BP)

## TIMES OF DAY

In UK English, the 24 -hour clock is preferred (e.g. $1600 \mathrm{~h}, 16.00$ hours or 16:00 h, depending on journal style). If AM and PM are used (US English), they should be small caps.

## Major time zones

```
UT Universal Time
UK
BST British Summer Time
GMT Greenwich Mean Time
USA
cdt Central Daylight Saving Time
cst Central Standard Time
```


## UNITS OF TIME

| Ma | million years ago |
| :--- | :--- |
| Myr | million years |
| Ga | billion years ago $\left(10^{9}\right.$ years $)$ |

```
edt Eastern Daylight Saving Time
est Eastern Standard Time
mdt Mountain Daylight Saving Time
mst Mountain Standard Time
pdt Pacific Daylight Saving Time
pst Pacific Standard Time
```


### 1.13 Special Characters

Special characters are characters that are not found on a conventional keyboard. These include mathematical symbols, and symbols used in linguistics and foreign languages (Greek, Latin, Arabic, Russian, Oriental languages, etc.). For more information on special characters used in linguistics and mathematics, please see the relevant sections in this guide.

## BEWARE AMBIGUOUS CHARACTERS!

Care must be taken to distinguish between upper and lower case letters (particularly if subscripts and superscripts are used), between Greek and other characters and between roman and italic characters.

## Examples

```
\alpha(alpha) versus }\propto\mathrm{ (proportional to)
d (differential) versus d}\mathrm{ (variable)
\delta(delta) versus }\partial\mathrm{ (partial differential)
e (exponential) versus e (variable)
i (letter) versus l (iota)
k (letter) versus к (kappa)
l(ell) versus 1 (one) versus I (capital i)
```

```
O (letter) versus 0 (zero)
p (letter) versus \rho (rho)
\mu(mu) versus v (upsilon) versus v (nu)
    versus v
x (letter) versus }\times\mathrm{ (multiplication sign)
    versus \chi(chi)
'(apostrophe) versus' (prime)
```


### 1.14 Computing Terms

- Computer and word-processing languages should be given as their tradenames (e.g. WordPerfect). Those that are acronyms should be given in caps (e.g. BASIC, PASCAL).
- Computer programs should be given in small caps (e.g. sPss for 'Statistical Package for the Social Sciences').

| Some common terms |  |  |
| :--- | :--- | :--- |
| database | hard copy | program, programming, |
| debug | Internet (capital I; not Net) | programmer |
| disk | log on (verb) | World Wide Web or the Web |
| email (no hyphen) | online (no hyphen), offline | (caps) |
|  |  | website |

### 1.15 Currency

- Symbols (and abbreviations for non-US/UK currencies) for units of currency generally precede the figure (e.g. $£ 58.00, \$ 4580, € 120$, EUR 350). The exceptions are those written in full (e.g. 12 rupees). Use $\$$ for $\$$ US unless other dollar types are mentioned (e.g. \$A, \$HK).
- In book reviews etc., prices should be given with values for the two decimal units after a decimal point (e.g. \$A38.00 not \$A38).
- For 'million' use 'm' (e.g. £75m); for 'billion’ use 'bn' (e.g.£75bn). Note that 'billion' means 'a million million' in UK English, but 'a thousand million' in US English.
- Use whole figures and decimals consistently (e.g. \$4.25 and \$7.00, not \$4.25 and \$7).
- The following EU countries are now using the euro (former currency in parentheses): Austria (schilling), Belgium (franc), Finland (markkaa), France (franc), Germany (mark), Greece (drachma), Ireland (punt), Italy (lira), Luxembourg (franc), the Netherlands (guilder), Portugal (escudo) and Spain (peseta).


### 1.16 Qualifications

Qualifications after a person's name should be listed in the following order.
1 Academic qualifications, in ascending order (e.g. BA MA PhD)
2 Professional qualifications (e.g.RN RM)
3 Honorary/fellowship qualifications (e.g. FAAN OBE)
Note that some qualifications automatically supersede others (e.g. to be a fellow of a college you must already be a member, so there is no point in putting MRCP if someone is also FRCP).

## SCIENTIFIC/ENGINEERING/ARTS

| BA or MA | Bachelor of Arts or Master of Arts; Bachelor of Science (Oxford/Cambridge) <br> BEng |
| :--- | :--- |
| Bachelor of Engineering |  |
| BSc | Bachelor of Science |
| DPhil | Doctor of Philosophy |
| MPhil | Master of Philosophy |
| MS | Master of Science (US) |
| MSc | Master of Science |
| PhD | Doctor of Philosophy |

## MEDICAL

| BMedSci | Bachelor of Medical Science |
| :--- | :--- |
| FFARCS | Fellow of the Faculty of Anaesthetists of the Royal College of Surgeons |
| FFCM | Fellow of the Faculty of Community Medicine |
| FFOM | Fellow of the Faculty of Occupational Medicine |
| FRCGP | Fellow of the Royal College of General Practitioners |
| FRCOG | Fellow of the Royal College of Obstetricians and Gynaecologists |
| FRCP | Fellow of the Royal College of Physicians |
| FRCPath | Fellow of the Royal College of Pathologists |
| FRCPsych | Fellow of the Royal College of Psychiatrists |
| FRCS | Fellow of the Royal College of Surgeons |
| MB BChir | Bachelor of Medicine and Surgery |
| MB BS | Bachelor of Medicine and Surgery <br> MB ChB |
| Bachelor of Medicine and Surgery |  |
| MD | Doctor of Medicine |

## DENTAL

| BChD | Bachelor of Dental Surgery <br> BDS |
| :--- | :--- |
| Bachelor of Dental Surgery |  |
| DDS | Doctor of Dental Surgery |
| MDS | Master of Dental Surgery |

## VETERINARY

$\mathrm{BSc}($ Vet $) \quad$ Bachelor of Veterinary Medicine and Surgery
BVMS Bachelor of Veterinary Medicine and Surgery
BVM\&S Bachelor of Veterinary Medicine and Surgery
BVSc Bachelor of Veterinary Science
MRCVS Member of the Royal College of Veterinary Surgeons

## TITLES

- Use Dr for physicians (i.e. medics who are not surgeons) and for scientists or others (e.g. dentists) with a doctoral degree (PhD, DPhil or DSc).
- Use Mr/Mrs/Miss/Ms for dentists without a doctoral degree and for surgeons.
- Use Professor for professors who are still working or who have retired but been made Professor Emeritus (otherwise they lose the title 'Professor' on retirement).
- Check the Medical Directory, Who's Who, etc. for honours such as OBE, CBE and DBE.


### 1.17 Organizations

| Abbreviation | Organization |
| :--- | :--- |
| ANA | American Nurses Association |
| CERN | Conseil Européen de la Recherche Nucléaire |
| CSIRO | Convention on International Trade in Endangered Species of Wild Fauna and Flora |
| DEFRA | Commonwealth Scientific and Industrial Research Organization |
| DoE | Department for Environment, Food and Rural Affairs (London) (formerly MAFF) |
| DoH | Department of Health (London) (formerly DHSS) |
| DWP | Department for Work and Pensions (London) [DWP was formed from the Department of |
| EU | European Union (no longer EC) |
| HMSO | Her Majesty's Stationery Office (London) |
| ICN | International Council of Nurses |
| IUPAC | International Union of Pure and Applied Chemistry (Oxford) |
| NHS | National Health Service (UK) |
| NIH | National Institutes of Health (US) |
| PAHO | Pan American Health Organization |
| UN | United Nations [not UNO] (New York) |
| UNEP | United Nations Environment Programme and Employment] |
| UNESCO | United Nations Educational, Scientific and Cultural Organization (Paris) |
| USDA | United States Department of Agriculture (Washington, DC) |
| WHO | World Health Organization (Geneva) |

### 1.18 Places

## COMPASS DIRECTIONS

- North-west, south-southeast, etc. should be abbreviated if used extensively, particularly if used as part of a compound adjective (e.g. SW-facing slope, NNE-trending escarpment). Note that north-south comes before east-west in the abbreviations.
- Adjectives using north, south, east or west take the forms north-east, north-eastern, northerly, northeasterly, northward and northernmost.


## LATITUDE AND LONGITUDE

Use the form $44^{\circ} 56^{\prime} \mathrm{N}, 71^{\circ} 45^{\prime} \mathrm{E}$ (north-south first then east-west). There is no reason to use the abbreviations 'lat.' and 'long.' in front of the coordinates because the compass directions show which of the two is being given. Coordinates are usually given with an altitude (not elevation), which should be given in metres above sea level (m a.s.l.).

## UK GRID REFERENCES

Use the form 'NZ 684018 '.

## COUNTRIES

- Avoid the terms America and North America unless it is clear that the continent is being referred to; otherwise, use USA (always abbreviate; do not use U.S.A. or the States). US is used as the adjectival form of USA (e.g.'US aircraft carriers stationed in the Persian Gulf').
- Use UK (always abbreviate). Note that $U K=$ Great Britain plus Northern Ireland; Great Britain = England, Scotland and Wales; the British Isles = UK plus the Irish Republic. UK can be used as an adjective (e.g.'UK harrier jets flying over the Falkland Islands').
- Use the Netherlands not The Netherlands (although a capital $T$ is usually used in addresses this rule also applies for the Phillipines) or Holland (a region).
- Republics. Use China not People's Republic of China/PRC (and Taiwan not Republic of China); Korea not Republic of Korea/ROK; Germany not Federal Republic of Germany/FRG; Ireland not Republic of Ireland (nor Eire); South Africa not Republic of South Africa/RSA.
- Other. Use Russia, the Ukraine, Belarus, Georgia, Latvia, Lithuania, Estonia, etc., not the USSR (use the former USSR if countries are not specified). Use the Czech Republic and Slovakia, not Czechoslovakia. Use Bosnia and Herzegovina, Croatia, Serbia and Montenegro, and Slovenia (or the former Yugoslavia if in doubt). Check the latest edition of an atlas to confirm any recent changes.


## AUTHOR ADDRESSES

Institutes, street names, etc. are better given in the native tongue of the author (e.g. Université de Lyon should be preferred to Lyon University, and Universität München to Munich University). However, the names of cities and countries should be given in the language in which the paper is to be published.

## CAPITALIZATION

- Use initial caps for e.g. Western Australia, South West Africa and Northern Ireland (proper names) but not for e.g. southern Scotland or eastern India (descriptive terms).
- When climates or regions are described using an adjective that is a proper name, the name is capitalized (e.g. Mediterranean climate, Alpine region, sub-Saharan desert).
- Northern Hemisphere, Southern Hemisphere (caps).


## MISCELLANEOUS POINTS

- Use Asia-Pacific (en rule; not Asian-Pacific) and South-East Asia (initial caps; hyphen).
- Use Island(s) (do not abbreviate to Is.) and River(s) (do not abbreviate to Riv.).
- Use Mount (not $M t$ ). Note that 'yama', 'dake' and several other suffixes mean mountain in Japanese; however, they should not be removed from the name unless it has been anglicized; check with the author or leave as supplied (e.g. Mount Tanakami-yama but Mount Fuji).


## ABBREVIATIONS

## American states

| AK | Alaska | ID | Idaho | MT | Montana | RI | Rhode Island |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| AL | Alabama | IL | Illinois | NE | Nebraska | SC | South Carolina |
| AR | Arkansas | IN | Indiana | NC | North Carolina | SD | South Dakota |
| AZ | Arizona | KS | Kansas | ND | North Dakota | TN | Tennessee |
| CA | California | KY | Kentucky | NH | New Hampshire | TX | Texas |
| CO | Colorado | LA | Louisiana | NJ | New Jersey | UT | Utah |
| CT | Connecticut | MA | Massachusetts | NM | New Mexico | VA | Virginia |
| DC | District of Columbia | MD | Maryland | NV | Nevada | VT | Vermont |
| DE | Delaware | ME | Maine | NY | New York | WA | Washington |
| FL | Florida | MI | Michigan | OH | Ohio | WI | Wisconsin |
| GA | Georgia | MN | Minnesota | OK | Oklahoma | WV | West Virginia |
| HI | Hawaii | MO | Missouri | OR | Oregon | WY | Wyoming |
| IA | Iowa | MS | Mississippi | PA | Pennsylvania |  |  |

## Canadian provinces

| AB | Alberta | NU | Nunavut |
| :--- | :--- | :--- | :--- |
| BC | British Columbia | ON | Ontario |
| MB | Manitoba | PE | Prince Edward Island |
| NB | New Brunswick | QC | Quebec |
| NF | Newfoundland | SK | Saskatchewan |
| NS | Nova Scotia | YT | Yukon |
| NT | Northwest Territories |  |  |

## Australian states

| NSW | New South Wales | Tas. | Tasmania |
| :--- | :--- | :--- | :--- |
| NT | Northern Territory | Vic. | Victoria |
| Qld | Queensland | WA | Western Australia |
| SA | South Australia |  |  |

## UK regions and counties

You should usually delete region and county names from UK addresses, giving only the city or town and the postcode. However, it will occasionally be necessary to give the county or region (e.g. for rural addresses).

### 1.19 URLs in Text

## CAPITALIZATION

- For consistency and ease of reading, always type URLs and email addresses in lower case letters (e.g. www.blackwellpublishing.com; person@wiley.com). Both URLs and email addresses are case-insensitive, but there is a clear international trend to present both in all lower case text. In many other electronic contexts (e.g. Web searches), a capital letter represents only the capital letter, whereas the lower case letter represents both, so it seems sensible to retain the distinction for URLs and email addresses.
- There may be exceptions when the capitals have been used extensively in branding a website (e.g. www.GastroHep.com).


## PREFERRED ADDRESSES

- 'http://' is needed in URLs in articles so that the link becomes live on Wiley InterScience.
- The ScholarOne Manuscripts URLs do not start with 'www', so the URL should be written in full; e.g. http://mc.manuscriptcentral.com/ejn
- The 'www' part of a URL doesn't appear at the start of all Web addresses, so when writing a URL that does start with 'www', it cannot be left out.
- There are a few variants of the Company website URLs, but the preferred versions are as follows:
www.wiley.com
www.blackwellpublishing.com
www.blackwellpublishing.com/<journal acronym>
www3.interscience.wiley.com/


## BREAKING A URL

- When a URL must be broken over a line in a printed work, breaking after a slash or double slash is preferable.
- Try not to break after a dot, leaving the dot at the end of the line of text. Do not use hyphens to break long words at the end of a line.
- A hyphen within a URL shouldn't appear at the end of a line.


## SETTING OFF URLS FROM SURROUNDING TEXT

- Do not set off URLs with angle brackets, because angle brackets are used in some markup languages.
- Do not underline URLs in printed text.
- Avoid placing punctuation directly after a URL, as it may be unclear whether the punctuation is part of the URL.


## PART 2: DEALING WITH OTHER MATERIAL

### 2.1 Electronic Submission

## PREPARATION OF ELECTRONIC ARTWORK

- Authors should be asked to submit EPS (line art) or TIFF (half-tone/photographs) files only.
- For scanned images, the scanning resolution (at final image size) should be as follows to ensure adequate reproduction: $>800$ dots per inch (d.p.i.) for line art; $>300$ d.p.i. for halftones; $>600$ d.p.i. for figures containing both half-tone and line images.
- EPS files should be saved with fonts embedded (and with a TIFF preview if possible).
- Black and white images should be supplied as grayscale.
- Colour images should be supplied as CMYK, not RGB.
- Multipart figures should be supplied in the final layout in one file.
- For further details, see http://www.blackwellpublishing.com/bauthor/digill.asp
- The following artwork packages give suitable quality formats when dealing with electronic artwork and allow you to 'save as' or 'export' as TIFF and EPS, the preferred standardized formats:
Adobe Illustrator 7.0 and above (EPS)
Adobe Illustrator 9.0 (EPS; also export as TIFF)
CorelDRAW 7.0 and above (EPS)
Deneba Canvas 6.0 and above (EPS)
Adobe Photoshop 4.0 and above (TIFF)


### 2.2 Disks

- CDs and floppy disks are both OK, but there is no current facility to process optical disks.
- Any word-processing format can be handled.
- The author must check that the final version of the hard copy and the file on the disk are the same.


### 2.3 Artwork

There are many journal-specific requirements for artwork, so refer to your journal style sheet and, if necessary, the 'Instructions for Authors' guidelines (usually on the inside back cover of the journal). See 'Electronic Submission' for information on electronic artwork.

## GENERAL CHECKLIST

- Do the figures match the legends?
- What level of intervention is appropriate for figures in this journal? (There is always a 'cost versus quality' trade-off.)
- What reduction is appropriate for the figure? Consider (1) the size of any lettering and line art, and (2) the column width of the journal.
- Do you need to add (a), (b), etc. to the various parts of the figure?
- Is the text in the figure legible and error-free?
- Do any tints, areas of shading, etc. have to be redrawn? After reproduction, fine tints may become solid black, and light shading may disappear. A crude way to check whether this could be a problem is to photocopy the figure at the appropriate reduction.
- Is the figure to be processed as colour? If so, special attention needs to be paid to the authors' and editor's requirements as money is often involved! There is a requirement in some journals to minimize colour - please consult the Wiley-Blackwell production editor if you are unsure whether or not colour is acceptable.


### 2.4 Tables

## WHEN IS A TABLE NOT A TABLE?

A table concisely presents numerical or factual information in a grid format. A table usually contains at least two rows (including the column headings) and two columns; otherwise the information may be better presented as a list. A 'table' containing graphics (e.g. arrows in a flowchart) is probably better treated as a figure, although occasionally figures may be embedded in tables (e.g. chemical structures); in this case, alert the typesetter to the fact that graphics need to be dropped into the table.

## FORMATTING

- Make sure column headings are aligned (using tabs) with the entries below them.
- The first word of an entry should normally have an initial capital.
- Complex tables may benefit from extra spaces between groups of rows (see example overleaf).


## EDITING

- The table legend should usually be treated as a title, and should stand on its own as a description of the content. It should contain only a brief, general description of what is shown in the table. Details about methods, statistics and specific parts of the table (e.g. 'Standard errors are given in parentheses') should be confined to footnotes.
- Units should be given in column headings, rather than repeated for every entry in the body of the table.
- Define any abbreviations in a footnote.
- See 'Footnotes' (1.10) for how to deal with table footnotes.
- Make sure that rules in hierarchical column headings are correct (i.e. that they span the appropriate text).
- In the column or row headings, authors sometimes neglect to include the top level of the hierarchy (i.e. they do not tell you what the numbers in the table actually are!). You may find that this information has been included in the legend (e.g.' leaf dry weight' in the example table overleaf).


## BEFORE...

Table 1. Leaf dry weight of three pea varieties grown at different temperatures (g).Values are given as means ( $n=30$ ). Within a column, means followed by the same letter are not significantly different at $P<0.05$, using the Tukey test. Heat events were introduced at weekly intervals.

| Varieties | Temperature <br> Mean | Days after sowing |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | HE | 40 | 55 | 70 |
| EC-12876 | $18^{\circ} \mathrm{C}$ | $35^{\circ} \mathrm{C}$ | 0.40 a | 3.88 a | 0.17 a |
| EC-12876 | $22^{\circ} \mathrm{C}$ | $38^{\circ} \mathrm{C}$ | 0.52 a | 0.43 b | 1.20 b |
| EC-12876 | $25^{\circ} \mathrm{C}$ | $38^{\circ} \mathrm{C}$ | 1.35 b | 5.36 a | 4.20 c |
| P-116 | $18^{\circ} \mathrm{C}$ | $35^{\circ} \mathrm{C}$ | 0.54 a | 0.48b | 1.99 b |
| P-116 | $22^{\circ} \mathrm{C}$ | $38^{\circ} \mathrm{C}$ | 0.75 a | 1.25b | 1.56 b |
| P-116 | $25^{\circ} \mathrm{C}$ | $38^{\circ} \mathrm{C}$ | 0.22 a | 2.07b | 1.43 b |
| T-163 | $18^{\circ} \mathrm{C}$ | $35^{\circ} \mathrm{C}$ | 0.08 a | 0.12a | 0.97 a |
| T-163 | $22^{\circ} \mathrm{C}$ | $38^{\circ} \mathrm{C}$ | 2.34 c | 2.44a | 1.67 b |
| T-163 | $25^{\circ} \mathrm{C}$ | $35^{\circ} \mathrm{C}$ | 0.31 a | 0.29 a | 3.30c |

## ..AND AFTER

Table 1. Leaf dry weights of three pea varieties grown at different temperatures.

| Variety | Temperature ( ${ }^{\circ} \mathrm{C}$ ) |  | Leaf dry weight (g) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Days after sowing |  |  |
|  | Mean | HE | 40 | 55 | 70 |
| EC-12876 | 18 | 35 | 0.40 a | 3.88 a | 0.17 a |
|  | 22 | 38 | 0.52 a | 0.43 b | 1.20 b |
|  | 25 | 38 | 1.35 b | 5.36 a | 4.20 c |
| P-116 | 18 | 35 | 0.54 a | 0.48 b | 1.99 b |
|  | 22 | 38 | 0.75 a | 1.25 b | 1.56 b |
|  | 25 | 38 | 0.22 a | 2.07 b | 1.43 b |
| T-163 | 18 | 35 | 0.08 a | 0.12 a | 0.97 a |
|  | 22 | 38 | 2.34 c | 2.44 a | 1.67 b |
|  | 25 | 35 | 0.31 a | 0.29 a | 3.30 c |

Values are given as means ( $n=30$ ).
HE, heat event (introduced at weekly intervals).
Within a column, means followed by the same letter are not significantly different at $P<0.05$, using the Tukey test.

### 2.5 References

Check your journal style sheet for how to style references in the list and their citations in the text. In general, there are two main systems, Harvard and Vancouver, although there are some hybrids with features of both styles (e.g. alphabetical Vancouver).

## HARVARD

Citations in the text take the form of author names and dates (e.g. Smith et al. 1990), and references in the list are sorted alphabetically by author name.

## In the text

Sort references in the text chronologically (e.g. Smith 1990; Jones 1995), and then alphabetically within dates (e.g. Smith 1990; Brown 2001; Walton 2001).

For references with three or more authors, use the first author's name and 'et al.' in the text (e.g. Smith et al. 1990).

## In the list

Sort references in the list alphabetically by first author, then by number of authors (one; two; three or more), then chronologically within the one-author group, alphabetically within the two-author group, and chronologically within the $\geq$ three-author group:

Smedley, P. (2002)
Smith, G. (1983)
Smith, G. (2001)
Smith, G. and Jones, B.N. (1997)
Smith, G. and Stevens, D. (1996)
Smith, G., Wheeler, A., Lawrie, S. and von Hoffman, C. (1992)
Smith, G., McDonald, D.W. and Jones, B.N. (1994)
If two or more references have the same first author and date, you must use 'a,' 'b,' etc. after the date to distinguish them (e.g. Smith et al. 1990a). NB For two-author references, you need only do this if both authors are the same.
Lower case particles are listed under the letter of the name proper but upper case particles under the letter of the particle (e.g. da Silva under ' $S$ ' but Von Trapp under ' $V$ ').

## VANCOUVER

- In straight Vancouver, references are numbered sequentially as they occur in the text. Citations in the text take the form of superscript or parenthetical numbers, which refer the reader to the references in the list. References in the list are ordered according to these numbers.
- In alphabetical Vancouver, the references are ordered alphabetically in the list and then numbered, and it is these numbers that appear in the text (so they will be out of sequence in the text; e.g. reference 51 might come before reference 6).


## In the text

Reference numbers are set as superscripts or within brackets (usually square brackets), depending on the journal style. Superscripts should appear after, ${ }^{1}$ and square brackets within [1], punctuation. Use en rules for ranges; e.g. [1,2,3,4] becomes [1-4] and ${ }^{24,25,26}$ becomes ${ }^{24-26}$.

## In the list

Numbers in the list are set on the line.
1 Smith G, 1990
2 Author CD, 2001

## EXAMPLES OF REFERENCE LIST STYLE

Check your journal style sheet for the style you should follow. These are just examples.

## Article in journal

Author, A.B. \& Author, B.C. (2000) Title of article. Journal Title in Italics in Full, 00 (Suppl. 2), 000-000.
Author, A.B. \& Author, B.C. (2003) Title of article. Journal Title in Italics in Full, in press.

## Article within conference proceedings or book

Author, A., Author, B., Author, C. et al. [if e.g. > 6] (2002) Title of article. In: A. G. Smith \& C. H. Jones (eds), Conference or Book Title in Italics, pp. 000-000. Publisher, City.

## Book or conference proceedings

Smith, A.G. \& Jones, C.H. (eds) (2002) Conference or Book Title in Italics. Publisher, City.
Book-Author, T. (1997) Book Title. Publisher, City.

## Court cases

Adkins v Thomas Solvent Co., 440 Mich 293, 487 NW2d 715 (Mich 1992).

## DOIs (digital object identifiers)

Mazmanian, S. K., Ton-That, H. \& Schneewind, O. (2001) Sortase-catalysed anchoring of surface proteins to the cell wall of Staphylococcus aureus. Molecular Microbiology, 40, 1049-1057. doi:10.1046/j.1365-2958.2001.02411.x

## Government departments

Use the Department as the author, and The Stationery Office (HMSO before mid-1997), London as the publisher.
Department of Health (1993) Caring for People: Community Care in the Next Decade and Beyond. HMSO, London.

## Institutions cited as authors

Institutions cited as authors should be given in abbreviated form where referred to in the text (e.g. WHO 1989) and in abbreviated form (for the authors) and in full (for the publisher) in the reference list:
WHO (1989) Fisheries Handbook. World Health Organization, Geneva.

## Newspapers

Cracknell, D. and Porter, A. Brown set for new tax bombshell. Sunday Times, 31 August 2003, p.1.

## Thesis

Author, J. (2002) Title of thesis. PhD Thesis, University, City.

## URLs

Full reference details must be given along with the URL, i.e. authorship, year, title of document/report and URL. If this information is not available, the reference should be removed and only the web address cited in the text.
Smith A. (1999) Select committee report into social care in the community [WWW document]. URL
http://www.dhss.gov.uk/reports/report015285.html [accessed on 7 November 2003]

## UNPUBLISHED REFERENCES

Unpublished references should only appear in the list if they are 'in press'. Otherwise, they should be cited in the text only, and should give the authors' names and (unless one of the authors is also an author of the present article) their main institution and city to enable the reader to trace them (do not give the article title or other details). Use e.g.' unpublished results', 'manuscript in preparation' (in prep.), 'personal communication' (pers. comm.) or 'personal observations' (pers. obs.) depending on the context (e.g. authors of the present article can't make a personal communication with themselves!) and the journal style.

- ...was also found to be effective (S. Smith, University of Cardiff, Cardiff, unpublished results).


## GENERAL RULES

- Avoid in litt. and op. cit. Use e.g. '(Jones et al. 1958, cited in Smith 1990)'.
- Avoid ibid. (ibidem, as above) in the text and the list. The full details should be repeated.
- Initials should be spaced when they occur before the surname and closed up when they occur after it.
- Jr, III, etc. go after the name and initials in both the text and the list (e.g. A. B. Author Jr; Author A.B., III).
- Do not give the total page extents of books and theses in the list.
- Refer to the Index Medicus or the World List of Scientific Periodicals for the correct way to abbreviate a journal title.


## CHECKING REFERENCES

References can be checked at the following sites:

- Pubmed: www.ncbi.nlm.nih.gov/entrez/query/static/citmatch.html
- Medline: http://intapp.medscape.com/px/medlineapp/medline?cid=med\&adv=1


### 2.6 Commercial Products

Any commercial product mentioned in the text (e.g. equipment, drugs or computer software) should be accompanied at first mention by the name, city and (US) state/country of the company that made it (usually in parentheses). Add a query to the author if this information is missing.

- ...incubated in the basal broth medium Easy-Grow (Biology Solutions, Boston, MA, USA)...


### 2.7 Permissions

- Authors must have written permission to reproduce figures, tables or any other material from another source. This also applies to data from which a figure or table has been produced. If you suspect that an author has taken material from another source, but either has not acknowledged this or has supplied incomplete information, add a query (we assume that authors have followed their responsibility to seek permission - refer them to our Copyright Assignment Form).
- Acknowledge sources in figure and table legends in the format 'Reproduced from Smith et al. (1990), with permission from Mercat Press'. Some publishers may require the use of a particular copyright line. Make sure that there is a reference to the source of the material - ask the author to supply one if there is not.
- Photographs of equipment or company products should be checked for reference to the manufacturer. It may be necessary to obtain permission for their use, particularly if the product is referred to in a negative light.


### 2.8 Appendices

Appendices contain extra material (usually tables, lists, equations or lengthy sections of text) and should be placed at the very end of the article.

- The style of appendices varies from journal to journal, but generally they are headed e.g. 'Appendix l' and cited in the main body of the text as you would cite a figure or table. Equations in appendices are numbered separately (e.g. Eqn A1, etc.).
- An appendix may have its own reference list.
- Supporting information (in the online publication) is now replacing appendices in many journals.


## PART 3: SUBJECT-SPECIFIC STYLES

### 3.1 Scientific Names

The scientific name of a species is known as a binomen (zoology) or binomial (botany). There are differences in the naming conventions of animals, plants, bacteria and viruses (see Scientific Style and Format for detailed naming conventions and style for each kingdom, or the individual codes listed below), but below are the basic guidelines.

International Code of Zoological Nomenclature
International Code of Botanical Nomenclature
International Code of Nomenclature for Cultivated Plants
International Code of Nomenclature of Bacteria
International Code of Virus Classification and Nomenclature

- Genus and species names are presented in italics (e.g. Caenorhabditis elegans) and they have singular endings. Higher taxa (i.e. family, order, class, phylum and kingdom) are set in roman type with an initial capital (e.g. Coleoptera, Insecta and Rosaceae). These taxa have plural endings.
- Modifiers to species names are presented in roman after the species name and are always abbreviated.
- Spell out genus and species names in full at

Common modifiers

| ssp. | subspecies | sp. n. | species nova |
| :--- | :--- | :--- | :--- |
| cv. | cultivar | var. | variety |
| $\times$ | cross (hybrid) |  |  | the first citation in the Abstract and text (e.g. Bufo marinus); abbreviate genus names thereafter (e.g. B. marinus - note the full point and thin space after the abbreviated genus name). However, use the full name at the start of paragraphs, in tables, and whenever there could be ambiguity if the abbreviated name is used. If two genera with the same initial letter are referred to, it may be beneficial to use partial genus abbreviations (e.g. Picea abies $\rightarrow$ Pi. abies and Pinus sylvestris $\rightarrow$ P. sylvestris; Staph. aureus and Strep.faecalis). Alternatively, use the full name to make it clear which genus each species belongs to. If a new species of the same genus as another, already cited species is introduced, the full name of the new species (i.e. repeat the genus name) should be given at its first citation (e.g. if Xenopus laevis has already been named, you still need to spell out Xenopus at the first mention of Xenopus tropicalis).

- Adjectives and nouns derived from genus names become roman with a lower case initial (e.g. Felis $\rightarrow$ feline, Libellula $\rightarrow$ libellulids, Streptococcus $\rightarrow$ streptococcal infection). Those derived from higher taxonomic groups also begin with a lower case letter and are presented in roman (e.g. Ostracoda $\rightarrow$ ostracods, Cactaceae $\rightarrow$ cacti).
- A scientific name given at its first mention after a vernacular name should be separated from it by a comma if the two names are exact synonyms (e.g. ...the two-spotted cricket, Gryllus bimaculatus,...) but not if the vernacular name may apply to more than one species (e.g. the starfish Asterina pectinifera, the medaka Oryzias latipes).
- The genus name is sometimes referred to alone, even in titles (e.g. Xenopus, Asterina), but the species name cannot be (laevis, pectinifera). Species within a genus can be referred to in general terms by the abbreviations sp. (singular) or spp. (plural) after the genus name (e.g. Xenopus sp.).


## AUTHORITIES

The 'authority' of a scientific name is the name of the person who originally classified the species. It is particularly important to include the authority if there is some controversy about the classification.

- The authority should be given at first mention of the species, set in roman after the scientific name (e.g. Anthomyza elbergi Andersson). Alternatively, a reference may be cited.
- If a date of classification is given with the

| L. (Linnaeus) | the most well-known <br> authority <br> (e.g. Parage aegeria L.) |
| :--- | :--- |
| gen. \& sp.indet. | 'genus and species <br> indeterminate' <br> (no need to define) | authority, it should be separated from the authority by a comma (e.g. Anthomyza bellatrix Roháçek, 1984).

- When a species or subspecies is transferred to a genus other than that in which it was first classified, the original authority is placed in parentheses. In botany and microbiology, the authority of the new combination follows and is not placed in parentheses [e.g. Calluna vulgaris (L.) Hull, Shigella dysenteriae (Shiga) Castellani \& Chalmers]. In zoology, the authority of the new combination is not given [e.g. Lepomis gulosus (Cuvier)].


## BACTERIA NAMES

- Names of all bacterial taxa are italicized [e.g. Pseudomonadales (order), Pseudomonadaceae (family), Pseudomonas (genus), etc.].
- Some organisms that cannot be differentiated taxonomically at the level of subspecies are given the infrasubspecific designations pathovars (pv.), biovars (b.), serovars (sv.), phagovars, chemovars and morphovars.
- Vernacular names of bacteria are always set in roman lower case (e.g. mycobacteria, salmonella, klebsiellae).


## VIRUS NAMES

- Virus names end in virales (order), viridae (family) virinae (subfamily) and virus (genus). They do not follow normal binomial naming.
- Approved (by the International Committee on Taxonomy of Viruses) international names for orders, families, subfamilies and genera are set in italics with initial capitalization. The name of the taxon should precede the term in formal use (e.g. the family Paramyxoviridae, the genus Orthopoxvirus).
- Names that have not yet been approved and vernacular names are set in lower case roman (e.g. maize dwarf mosaic virus, herpes simplex virus type I , rhabdovirus, yellow fever virus). Virus names are also set in roman when used in an adjectival form. Be careful not to jump hierarchical levels in vernacular usage (because it is not always easy to identify which level is being referred to): add taxon identification wherever needed.
- The first letter of a proper noun or proper adjective incorporated into the name of a virus is capitalized (e.g. West Nile virus). If part of the vernacular name incorporates a Latin name, the Latin name is capitalized and italicized.


## RECOMMENDED TEXTS

Council of Biology Editors (1994) Scientific Style and Format: The CBE Manual for Authors, Editors, and Publishers, 6th edn. Cambridge University Press, Cambridge.

### 3.2 Aquaculture and Veterinary Science

## AQUACULTURE

Names of organisms should be given in full, i.e. common name and Latin name with authority, when cited for the first time. Latin names should be given in italics.

Use of parentheses in scientific names follows strict protocols, and generally what is supplied will be correct [e.g. Boops boops (L.) but Gadus morhua L.].

## Common terms

| a.s.l. | above sea level | $I$ | index |
| :--- | :--- | :--- | :--- |
| m.s.l. | mean sea level | $I_{\mathrm{G}}$ | gonado-somatic index |
| CPUE | catch per unit effort | $I_{\mathrm{H}}$ | hepato-somatic index |
|  |  | $L$ | length |
| fish | plural for one species | $L_{\mathrm{F}}$ | fork length |
| fishes | plural for multiple species | $L_{\mathrm{S}}$ | standard length |
|  |  | $L_{\mathrm{T}}$ | total length |

## RECOMMENDED TEXTS

American Fisheries Society Special Publication No. 20, A List of Common and Scientific Names of Fishes from the United States and Canada.
For fishes occurring in British waters, give precedence to Wheeler A. (1992) A list of the common and scientific names of fishes of the British Isles. Journal of Fish Biology 41, Supplement A.
www.fishbase.org

## VETERINARY SCIENCE

## Common abbreviations

| ALS | advanced life support | IT | intratracheal |
| :--- | :--- | :--- | :--- |
| CI | cardiac index | LDPI | laser Doppler perfusion imaging |
| CO | cardiac output | MAP | mean arterial pressure |
| CPCR | cardiopulmonary cerebral | MHC | major histocompatibility complex |
|  | resuscitation | OD | optical density |
| CVP | central venous pressure | OD | right eye |
| DAP | diastolic arterial pressure | OS | left eye |
| DSH | Domestic Short Hair | OU | both eyes |
| FE'CO $_{2}$ | end tidal carbon dioxide | $\mathrm{PACO}_{2}$ | partial pressure of alveolar carbon dioxide |
| FeLV | feline leukemia virus | $\mathrm{PaCO}_{2}$ | partial pressure of arterial carbon dioxide |
| FHV-1 | feline herpes virus | PV | papillomaviruses |
| FIV | feline immunodeficiency virus | PVR | pulmonary vascular resistance |
| $g$ | not rpm or rev min ${ }^{-1}$ | RAU | relative antibody unit |
| H\&E | haemotoxylin and eosin stain | SAP | systolic arterial pressure |
| IO | intraosseus | SVR | systemic vascular resistance |
| IOP | intraocular pressure | w/v | weight/volume |

- Q12 hours, Q8 hours, Q24 hours (every 12 hours, every 8 hours, every 24 hours)


### 3.3 Linguistics

Follow either the style of the Modern Language Association (MLA) or that of the American Psychological Association (APA):

- http://www.apastyle.org/aboutstyle.html
- http://www.mla.org


### 3.4 Business, Economics, Maths and Statistics

## BUSINESS AND ECONOMICS

## Common terms

APT arbitrage pricing theory the Bank of England (also just 'the Bank')
BEA Bureau of Economic Analysis
Bear-Sterns
below-market performers
bertrand competition
book-to-market adjustments
buy-and-hold strategy
CAP Common Agricultural Policy
CPI consumer price index
cut-and-run behaviour (but to cut and run)
DAX100
DF Dickey-Fuller test
DTI Department of Trade and Industry
ECB European Central Bank
EMU European Monetary Union
EPO European Patent Office
ERM exchange rate mechanism
formulas (not formulae)
FTSE100
GATT general agreement on trade and tariffs
GDP gross domestic product
GNP gross national product
IMF International Monetary Fund
IRPP Institute for Research on Public Policy
London's Seaq

London Stock Exchange
LOOP law of one price
Nasdaq
Nikkei 225
NYSE New York Stock Exchange
OECD Organisation for Economic Co-operation and Development
OPEC Organisation of the Petroleum Exporting Countries
ROW rest of world
RPI Retail Price Index (in UK)
RTAs regional trade agreements
S\&L
S\&P 500
SEC Securities and Exchange Commission
spillover ( n .)
spin-off (n.)
$t$-statistics
$t$-value
takeoff (n.)
tip-off (n.)
trade-off (n.)
turnover (n.); turn over (v.)
VAR vector autoregression
WTO World Trade Organisation

## MATHS

## Equations

- Simple equations should run on in the text and should be punctuated as part of the sentence (e.g. '...was calculated as $h=a+B_{2}{ }^{\prime}$ ). Complex equations should be displayed for clarity. Note that reactions and inequalities should be neither referred to nor numbered as equations.
- Even for displayed equations, definitions of symbols should run on in the normal sentence structure within the text:
$s=1-[n(2+y)]$,
where $s$ is the growth rate, $n$ is the number of cells...
- The order of brackets should be $<\{[()]\}>$.
- If an equation (displayed) runs over more than one line, line breaks should occur before a relational sign (i.e. $=,>, \supset, \notin, \propto$, etc.). The turnover line should then be aligned with previous relational signs. Breaks can also occur before operational signs (i.e.,,$+- \pm, \times, \div, \sum$, etc.); the turnover line then aligns to the right of the relational sign.
- Operational and relational signs have fixed thin spaces on either side of them (e.g. $x+y$ ).
- Fractions in run-on equations can be represented by use of a solidus [e.g. $x /(y+1)$ ] to prevent disruption to the line of text above. Parentheses often need to be added when converting fractions to the solidus form.
- The radical (root sign) is set using the symbol $(\sqrt{ })$ or a superscript index $(-1 / 2)$, rather than taking a line (vinculum) across the whole equation. This is most important in run-on equations to prevent disruption to the line of text above.


## Formatting

| For | Use | Examples |
| :--- | :--- | :--- |
| Variables | Italics | $x$-axis, $n, \chi^{2}$ |
| Constants | Roman | $\mathrm{e}, \pi$ |
| Functions and operators | Roman | $\mathrm{f}, \exp , \log , \sin$ |
| Modifiers | Roman, subscript | $d_{\mathrm{E}}, n_{\mathrm{a}}, n_{\text {air }}$ |
| Scalars | Italics | $A, V, M$ |
| Vectors | Italics, bold (sometimes arrow over letter) | $a, A B, e b$ |
| Tensors | Sans serif, italics | $T, T: S$ |

## Functions and operators

| ad | adjoint | GL | general linear | s.t. | subject to |
| :--- | :--- | :--- | :--- | :--- | :--- |
| arg | argument | inf | infimum | sin | sine |
| cos | cosine | lim | limit | sinh | hyperbolic sine |
| cosh | hyperbolic cosine | ln | natural logarithm | sup | supremum |
| cov | covariance | log | logarithm | tan | tangent |
| det | determinant | max | maximum | tanh | hyperbolic tangent |
| dim | dimension | min | minimum | tr | trace |
| E | expectation | mod | modulus | var | variance |
| EU | expected utility | prob | probability | trn | transition |
| exp | exponential |  |  |  |  |

## STATISTICS

## Statistical tests

| ANOVA (analysis of variance) | F-test | Student's $t$-test |
| :--- | :--- | :--- |
| ANCOVA (analysis of covariance) | Mann-Whitney $U$-test | $\chi^{2}$-test (chi-squared test) |
| MANOVA (multiple analysis of variance) |  |  |

## Common abbreviations

| CI | confidence interval | OR | odds ratio |
| :--- | :--- | :--- | :--- |
| CL | confidence limits | $P$ | probability (always abbreviate) |
| d.f. | degrees of freedom | $r$ | coeffient of variation |
| $F$ | variance ratio | RMS | root mean square |
| $F_{x, y}$ | variance ratio, where $x$ and $y$ are d.f. | SD | standard deviation |
| LSD | least significant difference | SE | standard error |
| $n$ | number of observations | SEM | standard error of the mean |
| ND | not done | $\bar{x}$ | average/mean |
| NS | not significant |  |  |

## RECOMMENDED TEXTS

AMS (1986) Mathematics into Type (rev. edn). American Mathematical Society, Providence, RI.

### 3.5 Computing and Engineering

## COMPUTING

Programming languages should be given in CAPS; software names in SMALL CAPS.

## Common terms

| Apple | email | MS-DOS | Microsoft |
| :--- | :--- | :--- | :--- |
| BASIC | FORTRAN | PASCAL | Access |
| BIOSYS-1 | GenBank | PAUP | Excel |
| BLAST, BLASTX | GLM | program | Outlook |
| CD-ROM | Google | Prolog | PowerPoint |
| CELLSIM | IBM | SPSS | Word |
| CLUSTALX | Internet | TreeView |  |
| COBOL | Lotus 1-2-3 | URL |  |
| DECORANA | Macintosh | WordPerfect |  |

## ENGINEERING

## Common terms

| COD | crack opening displacement | LBB | leak-before-break |
| :--- | :--- | :--- | :--- |
| EIFS | equivalent initial flaw size | LCF | low cycle fatigue |
| ERS | enhanced reference stress | RS | reference stress |
| FEM | finite element method | SCF | stress concentration factor |
| HCF | high cycle fatigue | SEM | scanning electron microscope |

### 3.6 Law

- The official title of the Supreme Court is the Supreme Court of the United States. US Supreme Court is acceptable. Supreme Court is also acceptable if the context is clear (e.g. the article does not make frequent references to state supreme or other courts). Do not use United States Supreme Court.
- Washington, D.C. - use comma and periods.
- Case names should be in italics.

| Initial capitals | Lower case |
| :--- | :--- |
| Court, Bench, Justice, Term, Brethren and <br> Chambers when referring to the Supreme Court | court in references to lower courts |
| Attorney General, Solicitor General, President, Vice <br> President and Cabinet-level titles | ambassador, judge, assistant attorney general, etc. - <br> i.e. any national position under Cabinet level; any <br> state position |
| Progressive Era, Federalist, Anti-Federalist and <br> Prohibition | presidents or chairmen of commissions or <br> companies |
| Framers of the Constitution and Founding Fathers | 'party' when referring to a political party |
| Amendments to the Constitution and clauses <br> within the Constitution (e.g. First Amendment, <br> Commerce Clause) | government and parliamentary as adjectives |

## Useful websites

Modern Law Review website: http://www.lse.ac.uk/collections/law/modernLawReview.htm http://www.law.buffalo.edu/baldycenter/styleinfo.html
http://dictionary.law.com/

### 3.7 Life and Physical Sciences

Note: for general biology, see also general medicine.

## CHEMISTRY/BIOCHEMISTRY

## Common terms

| C4, C3 carbon-4 pathway, carbon-3 pathwaychlorophyll $a, b, c$ |  | $N$ | substituted nitrogen but N -terminus, |
| :---: | :---: | :---: | :---: |
|  |  |  | C-terminus |
| cis- | same side | $o$ | ortho |
| D | dextro | O | sub-oxygen |
| fac- | facial | $p$ | para |
| fMet | formylmethionine | P680 | photosystem II [photosynthesis] |
| $\mathrm{G}_{1}, \mathrm{G}_{0}$, |  | P700 | photosystem I [photosynthesis] |
| S, $\mathrm{G}_{2}, \mathrm{M}$ | phases of cell cycle | $\mathrm{PGA}_{1} / \mathrm{PGA}_{2}$ | prostaglandin $\mathrm{A}_{1} / \mathrm{A}_{2}$ |
| gem- | geminal | $P_{\text {i }}$ | inorganic orthophosphate |
| Hb | haemoglobin | $\mathrm{p} K, \mathrm{pH}$ |  |
| $K_{\mathrm{m}}$ | Michaelis constant | R | recto |
| L | laevo | $S$ | sinister |
| $m$ | meta | $\mathrm{T}_{4}$ | bacteriophage |
| M | molar | trans | opposite side |
| mer- | meridional | vic- | vicinal |
| N | normal concentration | $V_{\text {max }}$ | maximal rate |
| $n$ | normo | $\mathrm{v} / \mathrm{v}$ | volume in volume |
|  |  | w/v | weight in volume |

## Useful website

- Standard nomenclature and symbols can be found at: http://www.chem.qmw.ac.uk/iubmb/nomenclature/


## ECOLOGY

## Vegetation classifications/plant community assemblages

- The UK National Vegetation Classification (NVC) scheme (co-ordinated by J. S. Rodwell) uses an en rule between species names, which are italicized (e.g. Phragmites australisPeucedanum palustre tall herb fen).
- The phytosociological classifications (continental European) scheme (J. Braun-Blanquet) uses a hyphen between class names, which are not italicized (e.g. Class Oxycocco-Sphangetea, Order Sphagnetalia magellanici, Alliance Sphagnion magellanici, and PallavicinioSphagnetum).


## Common terms

blowdowns
capture-mark-recapture
cold-water species
DEFRA, Department of Agriculture, Food and Rural Affairs (was MAFF, Ministry of Agriculture, Fisheries and Food)
flood-plain alder forests (but'on the floodplain')
medium- and high-light treatments
nutrient-poor or nutrient-rich habitats
plant functional type (PFT)
post-dispersal
quadrat, not quadrate
relative growth rate (RGR)
root: shoot ratio
root-shoot allocation
semi-arid
semi-natural
subalpine
sub-blocks
subpopulation
tree line (not tree-line or treeline)

## GENETICS

| For | Use | Examples |
| :--- | :--- | :--- |
| Gene abbreviations | Italics | lacA, $a^{\prime} p^{\mathrm{r}}$ |
| Protein abbreviations | Roman | LacA |
| Phenotypes | Roman | $\mathrm{Lac}^{+}$ |
| Transposons | Roman | Tn 5 |

- Restriction endonucleases: HindIII, HinfI, EcoRI, MboI, etc.
- Strains of mice: BALB/c, C57B1/6, BD/V, BD/IX, LEW, etc.
- Always abbreviate: mtDNA, mRNA, rRNA, tRNA
- R388::Tn1721 represents transposon Tn 1721 encoding gene R388
- Chromosome locations: 6q22-24, 11p15.5
- DNA sequence: $5^{\prime}$-ATCGGAG-3'


## Common terms

| AFLP | amplified fragment length | ORF | open reading frame |
| :---: | :---: | :---: | :---: |
|  | polymorphism | PAGE | polyacrylamide gel electrophoresis |
| bp | base pairs | PCR | polymerase chain reaction |
| BLAST | basic linear alignment sequence tool | QTL | quantitative trait loci |
| bloodmeal | not blood meal | r | recombinant (e.g. lac ${ }^{\text {r }}$ ) |
| CAPS | cleaved amplified polymorphic | RAPD | random amplified polymorphic DNA |
|  | sequence | RecA- | recombinant strain; but recA is a gene |
| Da | daltons (not d) | RFLP | restriction fragment length |
| FISH | fluorescence in situ hybridization |  | polymorphism |
| $\mathrm{F}_{1}$ | first filial generation | RT | reverse transcriptase |
| $\mathrm{F}_{2}$ | second filial generation | SMM | stepwise-mutation model |
| (GATA) ${ }_{4}$ | key genetic sequence | SNP | single nucleotide polymorphism |
| GBA | genetic bit analysis | SPAR | single primer amplification reaction |
| $H_{\text {E }}$ | expected heterozygosity | ssDNA | single-stranded DNA |
| $H_{\mathrm{O}}$ | observed heterozygosity | SSOP | sequence-specific oligonucleotide |
| IAM | infinite allele model |  | probes |
| ITS | internal transcribed spacer | SSP | sequence-specific primers |
| kb | kilobases (e.g. 10.3-kb fragment) | SSR | single sequence repeat |
| Mb | megabase (a unit of length for DNA | $\mathrm{Tc}^{\mathrm{R}}, \mathrm{Ap}^{\mathrm{R}}$ | antibiotic resistance |
|  | fragments) | TDT | transmission/disequilibrium test |
| $M_{\mathrm{r}}$ | relative molecular mass | TGF | transforming growth factor |
| $N_{e}, N_{e} m$ | Nei's value | UTR | untranslated region |
| Useful websites |  |  |  |
| - Birgid Schlindwein's Hypermedia Glossary of Genetic Terms: |  |  |  |
| http://hal.weihenstephan.de/genglos/asp/genreq.asp?list=1 |  |  |  |
| - The Laboratory of Statistical Genetics at Rockefeller University: |  |  |  |
| http://linkage.rockefeller.edu/wli/glossary/genetics.html |  |  |  |
| - National Genome Research Institute: |  |  |  |
| http://www.genome.gov/glossary.cfm |  |  |  |

## GEOLOGY

## Websites for glossaries

http://college.hmco.com/geology/resources/geologylink/glossary.html
http://www.evcforum.net/WebPages/Glossary_Geology.html

## PLANT SCIENCES

## Light

In general, use units based on energy for heat or energy balance; use units based on photons for photochemical processes such as photosynthesis or photomorphogenesis. The waveband over which measurements are made should be specified [e.g. energy fluence rate (irradiance) of $650 \mathrm{~W} \mathrm{~m}^{-2}$ over the waveband $300-1000 \mathrm{~nm}$; photosynthetic photon fluence rate (PPFR) of $720 \mu \mathrm{~mol} \mathrm{~m}^{-2} \mathrm{~s}^{-1}$ over the waveband $\left.400-700 \mathrm{~nm}\right]$.

Units based on photons or energy

| Recommended nomenclature | Units | Near-equivalent terms |
| :--- | :--- | :--- |
| Based on photons |  |  |
| Quantity of photons | mol |  |
| Photon fluence | $\mathrm{mol} \mathrm{m}^{-2}$ | $\mathrm{~mol} \mathrm{~s}^{-1}$ |
| Photon rate | $\mathrm{mol} \mathrm{m}^{-2} \mathrm{~s}^{-1}$ | Photon density flow; Photon flux <br> Photon fluence rate |
| Photon flux density; Photon irradiance |  |  |
| Badiant energy | $\mathrm{J}(\mathrm{W} \mathrm{s})$ |  |
| Energy fluence | $\mathrm{J} \mathrm{m}^{-2}(\mathrm{~W} \mathrm{~s} \mathrm{~m}$ |  |

## Common terms

chlorophyll $a$ and $b$ or Chl $a$ and $b$
cytochrome cor cyt $c$
d. wt dryweight

EDTA ethylenediaminetetraacetic acid
f. wt fresh weight
$F_{o} \quad$ initial fluorescence
$F_{\mathrm{V}}: F_{\mathrm{M}}$ the ratio of variable to maximum fluorescence
$g_{c}$ stomatal conductance to $\mathrm{CO}_{2}$
$g_{\text {s }} \quad$ stomatal conductance to water vapour
glasshouse or controlled environment room not greenhouse
HPLC high-performance liquid chromatography
mycorrhiza formation or mycorrhiza development not mycorrhization
mycorrhizas not mycorrihae for plural of mycorrhiza
PAR photosynthetically active radiation
photo usually closed up (e.g. photoprotective, not photo-protective)
PSI photosystem I
PSII photosystem II
UV-A, UV-B not UVA, UVB
vesicular-arbuscular
WUE water-use efficiency
xanthi (always roman)

## Soil classifications

The names of units of the USDA Soil Taxonomy should begin with upper case initials. The hierarchy is as follows:

Order (e.g. Spodosols) Suborder (e.g. Orthods) Great Groups (e.g. Fragiorthods) Subgroups (e.g. Typic

Fragiorthods)
Families
Series

The FAO/UNESCO Soil Map of the
World is divided into World Classes (e.g. Fluvisols, Lithosols, Podzols, Redzinas, Chernozems, Phaeozems), which are divided into Soil Units.

### 3.8 Medicine

## GENERAL MEDICINE

Drug names have recently changed; most now take American spellings (e.g. ganciclovir, not gancyclovir), with very different original names in brackets [e.g. epinephrine (adrenaline)].

## Common terms

| $\alpha$-interferon | , $\gamma$-interferon but IFN- $\alpha$, IFN- $\gamma$ when abbreviated | IDDM | insulin-dependent diabetes mellitus (but WHO recommends use of the term |
| :---: | :---: | :---: | :---: |
| AIDS | acquired immunodeficiency syndrome |  | 'type 1 diabetes' instead) |
| BNF | British National Formulary | Ig | immunoglobulin |
| BSA | bovine serum albumin | IL | interleukin |
| BU | Bethesda units | i.m. | intramuscular(ly) |
| CHD | coronary heart disease | INR | international normalized ratio |
| CNS | central nervous system | IU | international units |
| COPD | chronic obstructive pulmonary disorder | i.v. | intravenous(ly) |
| c.p.m. | counts per minute | $\mathrm{LD}_{50}$ | lethal dose 50\% |
| CSF | cerebrospinal fluid | LDL | low-density lipoprotein |
| CT | computed tomography | LOS, LES | lower (o)esophageal sphincter |
| CVD | cerebrovascular disease | LPS | lipopolysaccharide |
| DBP | diastolic blood pressure | mAb | monoclonal antibody |
| DMEM | Dulbecco's modified Eagle's minimal essential medium | MEM mmHg | minimal essential medium |
| dose-response curve |  | MW | molecular weight |
| EBSS | Eisen's balanced salt solution | NICE | National Institute for Clinical |
| EBV | Epstein-Barr virus |  | Excellence |
| EC | Enzyme Commission | NOS | nitric oxide synthase |
| EC | effective concentration | NSAID | nonsteroidal anti-inflammatory |
| ECL | enhanced chemiluminescence |  | drug |
| $\mathrm{ED}_{50}$ | 50\% effective dose | OD | optical density |
| EDTA | ethylenediaminetetraacetic acid | PBMC | peripheral blood mononuclear cells |
| EEG | electroencephalogram | PBS | phosphate-buffered saline |
| EGTA | ethyleneglycoltetraacetic acid | PCR | polymerase chain reaction |
| ELISA | enzyme-linked immunosorbent assay | PET | positron emission tomography |
| EMBL | European Molecular Biology Laboratory | $\mathrm{PGA}_{1}$ | prostaglandin $\mathrm{A}_{1}$ |
| Escherichia coli (E. coli) |  | p.o. | per os (orally) |
| FACS | fluorescence-activated cell sorter | PRP | platelet-rich plasma |
|  | (FACScan) | q.d.s./q.i.d. | four times daily |
| FasL | Fas ligand | QoL | quality of life |
| FB | fast blue | RNAse | (not RNase) deoxyribonuclease |
| FCA | Freund's complete adjuvant | RPMI-1640 | (no need to define) |
| FCS | fetal calf serum | RR | relative risk |
| FDA | Food and Drug Administration (US) | SBP | systolic blood pressure |
| FITC | fluorescein isothiocyanate | s.c. | subcutaneous(ly) |
| GI | gastrointestinal | t.d.s./t.i.d. | three times daily |
| HAART | highly active antiretroviral therapy | TEQ | toxic equivalents |
| haematoma/hamartoma are often confused |  | TG | triglyceride |
| H\&E | haematoxylin and eosin | TNF | tumour necrosis factor (usually a) |
| HDL | high-density lipoprotein | tumour stages: stage I, stage II, etc. |  |
| HIV | human immunodeficiency virus | VCAM | vascular cell adhesion molecule |
| HPLC | high-performance liquid | VF | ventricular fibrillation |
|  | chromatography | w/v | weight/volume |
| hyperkalaemic |  | X ray (n.), X-ray (v., adj.) |  |

[^0]
## ANAESTHESIOLOGY

## Variables

C concentration in liquid
$F \quad$ fractional concentration
$P \quad$ pressure
Q volume (blood)
$V \quad$ volume (gas)

| Gas modifiers (subscript) |  |
| :--- | :--- |
| A | alveolar |
| B | barometric |
| D | deadspace |
| E | expired |
| I | inspired |
| T | total (tidal) |

## General modifiers

. first time derivative - mean (over variable)

- mixed (over gas)
end value


## Blood modifiers (subscript)

a arterial
b blood (general)
c capillary
p pulmonary
s shunt
total (of CO)
venous

## Examples

$\bar{P}_{\mathrm{a}} \quad$ mean arterial pressure
$\dot{\mathrm{V}} \mathrm{CO}_{2}$ production rate of $\mathrm{CO}_{2}$
$P_{\mathrm{A}_{2}} \mathrm{~N}_{2} \quad$ pressure of $\mathrm{N}_{2}$ in alveolar gas
$F_{\mathrm{E}} \mathrm{CO}_{2}$ fraction $\mathrm{CO}_{2}$ in mixed expired gas
$\mathrm{C}_{\stackrel{\mathrm{a}}{ } \mathrm{O}_{2}}$ end-tidal $\mathrm{O}_{2}$ concentration in arterial blood

## Common terms

| ARDS | Acute Respiratory Distress Syndrome (use initial caps for full term) | No need to define |  |
| :---: | :---: | :---: | :---: |
| $\mathrm{b} \mathrm{min}^{-1}$ | not bpm | ASA | American Society of |
| CBF | cerebral blood flow |  | Anesthesiologists |
| CPP | cardiopulmonary pressure | ASA PS | ASA physical status |
| CPR | cardiopulmonary resuscitation |  | atrioventricular |
| endtidal | not end tidal | CVP | central venous pressure |
| EPS | electrophysiological studies | EMLA cream | $\mathrm{P}_{\mathrm{E}} \mathrm{CO}_{2}$ |
| epinephr | t adrenaline | LMA | laryngeal mask airway |
| $F E V_{1}$ | forced expiratory volume in 1 s | MAC | minimum alveolar concentration |
| FVC | forced vital capacity | NIBP | non-invasive blood pressure |
| HR | heart rate | PO | per oral |
| IPPV | intermittent positive pressure ventilation |  |  |
| IRDS <br> laryngot | Infant Respiratory Distress Syndrome -oesophageal cleft not laryngo-tracheo-oesophageal cleft | No need to pro <br> Tuohy needle | vide manufacturer for LMA or |
| $\operatorname{LVd} P / \mathrm{d} t$ nasophar | rate of change of left ventricle pressure |  |  |
| $P_{\text {E }} \mathrm{CO}_{2}$ | not $\mathrm{PECO}_{2}$ |  |  |
| PEEP | positive end-expired pressure |  |  |
| RA, RV | right atrium, right ventricle |  |  |
| RFA | radiofrequency ablation |  |  |
| TCAD | tricyclic antidepressant drugs |  |  |
| TOF | train of four |  |  |

## HAEMATOLOGY

## Common terms

| APTT | activated partial thromboplastin time | PCV | packed cell volume |
| :--- | :--- | :--- | :--- |
| AT | antithrombin | PE | pulmonary embolism |
| BUN | blood urea nitrogen | PT | prothrombin time |
| CRP | C-reactive protein | PTT | partial thromboplastin time |
| CVP | central venous pressure | Rco | Ristocetin co-factor (not RcoF) |
| DDAVP | 1-8-deamino-d-arginine vasopressin | rFVIIa | recombinant factor VIIa |
|  | (also known as desmopressin) | TED | thromboembolic disease |
| DIC | disseminated intravascular coagulation | TGT | thrombin generation time |
| DVT | deep vein thrombosis | TIA | transient ischaemic attack |
| factor (F)V Leiden | TM | thrombomodulin |  |
| FVII | factor VII | von Willebrand disease, not von Willebrand's disease |  |
| GPI | glycophosphatidylinositol |  | (type 1, 2A, 2B, 3);VWD, not vWD. |
| haemophilia A, haemophilia B | von Willebrand factor, not von Willebrand's factor; |  |  |
| INR | international normalized ratio |  | VWF, not vWF. |
| LMWH | low molecular weight heparin | VPC | ventricular premature contractions |
| MCV | mean corpuscular volume | VTE | venous thromboembolism |
| PCF | platelet contractile force |  |  |

## Drug names

Note use of capitals and trademarks (superscript).

| beneFix $^{\circledR}$ | Haemate-P | Kogenate $^{\circledR}$ | Octanol $^{\text {TM }}$ |
| :--- | :--- | :--- | :--- |
| FEIBA $^{\text {TM }}$ | Havrix |  |  |

## OBSTETRICS AND GYNAECOLOGY

## Common abbreviations

CIN cervical intraepithelial neoplasia
FIGO International Federation of Gynecologic
Oncology (no need to give in full)
HPV human papillomavirus
LOH loss of heterozygosity
LVSI lymphvascular space invasion (not lymphovascular)
SCC squamous cell carcinoma
VAIN vaginal intraepithelial neoplasia
VIN vulvar intraepithelial neoplasia

## Common terms

birthweight (not birth weight)
bottle-feed
breastfeed
breastmilk
gynaecology (UK spelling)
gynecology (US spelling)
Kaplin-Meier
Pap test
paraprofessional

## IMMUNOLOGY

| Anti- |  |
| :--- | :--- |
| antibody <br> antimicrobial <br> antiserum <br> antitetanus | anti-goat <br> anti-human <br> anti-mouse <br> anti-rabbit |

## Common terms

| ADCC | antibody-dependent cell-mediated cellular cytotoxicity |
| :---: | :---: |
| $\alpha$ IL-4 | anti-interleukin-4 |
| Antigens: | Derp III, Derf III |
| APC | antigen-presenting cell |
| autoantige | n, autoimmune |
| C3 | the third component of complement |
| CALL | common acute lymphocytic leukaemia |
| CD45RO ${ }^{+}$ |  |
| $\mathrm{CD}^{+} \mathrm{CD} 4$ | + (thin space between parts) |
| CDR | complementarity determining region |
| cIgM | cytoplasmic immunoglobulin G |
| CMC | cell-mediated cytotoxicity |
| CTL | cytotoxic T lymphocyte |
| CTLA | cytotoxic T-lymphocyte antigen |
| DLN | draining lymph nodes |
| EIA | enzyme immunoassay |
| $\mathrm{F}\left(\mathrm{ab}^{\prime}\right)_{2}$ |  |
| Fab' | (no brackets if not a dimer) |
| FLI | Fos-like immunoreactivity |
| GM-CSF | granulocyte-macrophage colonystimulating factor |
| gp60 | glycoprotein 60 |


| Immunoglobulin heavy chains |  |  |  |
| :--- | :---: | :---: | :---: |
| IgA | $\alpha$ | IgG | $\gamma$ |
| IgD | $\delta$ | IgM | $\mu$ |
| IgE | $\varepsilon$ |  |  |


| GVH | graft-versus-host |
| :--- | :--- |
| H-2 | mouse version of MHC |
| HDL | high-density lipoprotein |
| HLA | human leucocyte antigen |
| $\left[{ }^{3} \mathrm{H}\right]$ TdR | $\left[{ }^{3} \mathrm{H}\right]$ thymidine |
| I-A | (not I-Ab) |
| ICAM-1 | intercellular adhesion molecule type 1 |
| LCL | lymphoblastoid cell line |
| mAb | monoclonal antibody |
| MACS | magnetic antibody cell sorting |
| MHC | major histocompatibility complex |
| MIP | macrophage inflammatory protein or |
|  | medial intraparietal (area) |
| MOI | multiplicity of infection |
| NK | natural killer |
| PMN | polymorphonuclear cells/leucocytes |
| TCGF | T-cell growth factor (= IL-2) |
| TCR | T-cell receptor (not TcR) |
| TDL | thoracic duct lymphocytes |
| TGF | transforming growth factor |
| Th | Thelper (Th1 never Th-1 or Th 1) |
| TNF- $\alpha$ | tumour necrosis factor- $\alpha$ |
| TRF | T-cell replacing factor |

## PHARMACOLOGY

## Devices, products and drugs

At first mention of a device, product or drug, give its generic name (in lower case; e.g. amoxycillin) followed (in parentheses) by its brand name (with initial capitals; e.g. Amoxil) and the manufacturer's name, city and state (include Inc., Corp., Ltd and Co.). Trademark ( ${ }^{\mathrm{TM}}$ ) symbols are not used unless referring to a registered trademark (®), and then only at first mention.

- A siliastic catheter (Catheter X, Manufacturer, City, State) was used.
- Patients were given furosemide (Lasix, Hoechst-Roussel Pharmaceuticals, Inc., Somerville, NJ).

In all subsequent references, only the generic name of the device, product or drug should be used, unless a clear distinction is being made between two or more such products with different brand names.

## Dosage/dose

- A dosage is a regimen, usually expressed as a quantity per unit of time. Always abbreviate b.i.d., t.i.d., q.i.d. (two, three and four times daily, respectively) and h.s. (hora somni, at bedtime).
- A dose is a quantity to be administered.


## Abbreviations

- In drug administration, always abbreviate i.d. (intradermal), i.m. (intramuscular), i.p. (intraperitoneal), i.v. (intravenous), p.o. (per os, oral), p.r. (per rectum, rectal), s.c. (subcutaneous) and s.l. (sublingual).
- Abbreviations for drugs and other humoral mediators use a roman or Greek character with an additional alphanumeric or numeric designator (usually subscript) [e.g. $\alpha_{1 A}, \alpha_{1 B}$ (alphaadrenoceptors); $\mathrm{D}_{1}, \mathrm{D}_{2}$ (dopamine receptors)].


## Common terms

\(\left.$$
\begin{array}{ll}\mathrm{AUC}_{0-24} & \begin{array}{l}\text { area under the concentration-time } \\
\text { curve } \\
\text { measured from } t=0 \text { to } t=24 \mathrm{~h}(\mathrm{mg} \mathrm{h} / \mathrm{L})\end{array} \\
\alpha & \begin{array}{l}\text { absorption-rate coefficient }\end{array}
$$ <br>

\beta \& elimination-rate coefficient\end{array}\right]\)| beta-blocker |  |
| :--- | :--- |
| $\beta-$ adrenoceptor |  |
| $C_{\text {max }}$ | maximum concentration (of a drug) |
| $C l$ | clearance (L/h) |
| $D$ | dose (mg) |
| $E D_{50}$ | median effective dose (mg) |

$L D_{50} \quad$ median lethal dose (mg)
NSAIDs non-steroidal anti-inflammatory drugs
$\mathrm{pKa} \quad$ dissociation coefficient
Q blood flow (L/h)
$t_{1 / 2} \quad$ half-life
$t_{1 / 2 \alpha} \quad$ absorption half-life
$t_{1 / 2 \beta} \quad$ elimination half-life
$\mathrm{V}_{\mathrm{d}(\text { area) }} \quad$ volume of distribution (L)
$\mathrm{V}_{\mathrm{d}(\mathrm{ss})} \quad$ volume of distribution at steady state ( L )
$E D_{50} \quad$ median effective dose (mg)

### 3.9 Nursing, Health and Dentistry

## NURSING, MIDWIFERY AND ALLIED HEALTH

## Common terms

audiotape/videotape (n.), audio-/video-tape (v.), audio-/video-taped (adj.)
birthweight (not birth weight)
bottle-feed
breastfeed/breastmilk
caregiver, caregiving
case finder, finding, manage, manager,
management, study but caseload, caseworker
day care
endpoint
firstborn
full-term/preterm
health care
healthcare (adj)
in utero (roman)
inpatient/outpatient
life span
life-event

## Common abbreviations

| ANA | American Nurses Association |
| :--- | :--- |
| APTs | Acute Pain Teams |
| CINAHL | Cumulative Index to Nursing and |
|  | Allied Health Literature |
| DoH | Department of Health (UK) |
| ICN | International Council of Nurses |

## DENTISTRY

## Common terms

| ABL | alveolar bone loss <br> argyrophilic nucleolar organizer <br> region |
| :--- | :--- |
| BMD | bone mineral density <br> ch <br> cytokeratin <br> decayed, missing or filled permanent <br> teeth |
| DMFT |  |

Likert scale (5-point Likert scale)
low-birthweight/very low-birthweight
meta-analysis
NHS Modernisation Agency
NHS trust (generic), NHS Trust (specific)
Pap test
Pearson product-moment correlation coefficient
(with en rule, not hyphen)
pretest
primigravadas (pl.)
Registered Nurse (RN)
tape-record (v.), tape recorder, tape recording (n.), tape-recorded (adj.)
well-being
wet nurse
World Health Organization (WHO)
or Organisation mondiale de la Santé (French)
or Organización Mundial de la Salud (Spanish)

| ICNP® | International Classification for Nursing |
| :--- | :--- |
|  | Practice |
| NHS | National Health Service (UK) |
| NIH | National Institutes of Health (US) |
| PAHO | Pan American Health Organization |

OHIP oral health impact profile
OLP oral lichen planus
OSCC oral squamous cell carcinoma
PBL problem-based learning
PDGF platelet-derived growth factor
PGE2 prostaglandin $\mathrm{E}_{2}$
Sjögren's syndrome
TGFß1 transforming growth factor $ß 1$
TIMP tissue inhibitor of matrix metalloproteinase
TMD temporomandibular disorder
TMJ temporomandibular joint
TNF tumour necrosis factor
VEGF vascular endothelial growth factor

## RECOMMENDED TEXTS

Blackwell's Dictionary of Nursing (1994). Blackwell Science, Oxford.
Zwemer T.J. (1998) Mosby's Dental Dictionary. Mosby, London.

### 3.10 Social and Behavioural Sciences

## GEOGRAPHY

See the section 'Places' in Part 1 of this guide.

## Common terms

| destination choice | interregional | subarea |
| :--- | :--- | :--- |
| distance-related | intraregional | subnational |
| economies-of-scale | nonsurvey | town-wide |
| export-demand | per capita | tract-level geography |
| export-sector | policymaker | trade-area survey |
| graph-theoretic | shortest-path | worldwide |
| gross and net migration | shortest-route/path |  |
| in- and out-migration | street-front |  |

## SOCIOLOGY

Please refer to the 'Politically sensitive terms' section of 'English Usage and Grammar' in Part 1 of the guide. In particular, you should avoid gender bias and ethnic stereotyping.

| DO use | DO NOT use |
| :--- | :--- |
| person, people and humankind | man, men and mankind |
| 'he or she','her or him','his or hers' <br> (varying the order occasionally) <br> or <br> change to plural 'they' | 'he/she','him/her' and 'his/hers' |

## PSYCHOLOGY

Please refer to the 'Politically sensitive terms' section of 'English Usage and Grammar' in Part 1 of the guide.

## Common terms

Asian American (n. and adj.)
Black
bipolar
bivariant
broad-based
covariance
Cronbach's alpha
cross-cultural
cross section (n.); cross-sectional (adj.)
Likert
midlife (n.)
multiscale
neo-Freudian
sociocultural
well-being
White

## Common abbreviations

ANOVA analysis of variance
BPI Basic Personality Inventory
CECS Courtauld Emotional Control Scale

CES-D Center for Epidemiology Depression Scale
DIF differential item functioning
WAI Weiberger Adjustment Inventory

## RECOMMENDED TEXTS

APA (2001) Publication Manual (5th edn). American Psychological Association, Washington, DC (available from http://www.apastyle.org/pubmanual.html).
ASA (1996) American Sociological Association Style Guide (2nd edn). American Sociological Association, Washington, DC (available from the ASA Executive Office, 1307 New York Avenue NW, Suite 700, Washington, DC 20036, USA).

### 3.11 Resources for Journal Abbreviations

- Index Medicus
ftp://nlmpubs.nlm.nih.gov/online/journals/ljiweb.pdf
- PubList (You need to register before using this one, but it's free to do so.) http://www.publist.com/
- ISI Journal Abbreviations Index http://library.caltech.edu/reference/abbreviations/
- Guide to Journal Abbreviations http://www.library.uiuc.edu/vex/vetdocs/jnabbrev.htm


### 3.12 Recommended Reference Books

## STYLE MANUALS

The Chicago Manual of Style: The Essential Guide for Writers, Editors, and Publishers, 15th edn (2003) by The University of Chicago Press, Chicago, IL.

- The 'essential reference for authors, editors, proofreaders, indexers, copywriters, designers, and publishers' in all subject areas.

Copy-editing: The Cambridge Handbook for Editors, Authors and Publishers, 3rd edn (1992) by J. Butcher. Cambridge University Press, Cambridge.

- Covers all aspects of the editorial process.


## MLA Style Manual and Guide to Scholarly Publishing, 2nd edn (1998)

by J. Gibaldi. The Modern Language Association of America, New York, NY.

- Guide for graduate students, teachers, and scholars in the humanities and for professional writers in many fields.


## The Oxford Guide to Style (2002)

by R. Ritter. Oxford University Press, Oxford.

- A completely rewritten and expanded modern edition of Hart's Rules for Compositors and Readers.
- The 'ultimate guide for all printers, publishers, and editors'.

Publication Manual of the American Psychological Association, 5th edn (2001)
by the American Psychological Association, Washington, DC.

- Style manual for behavioural and social sciences.

Scientific Style and Format: The CBE Manual for Authors, Editors, and Publishers, 6th edn (1995)
by E. J. Huth. Cambridge University Press, Cambridge.

- Covers all sciences, not just biology and the medical sciences.
- Both US and UK preferences are recognised.


## DICTIONARIES AND REFERENCE WORKS

Concise Oxford Dictionary, 10th edn
For standard UK spelling.
Macquarie Dictionary, 3rd edn
For standard Australian spelling.
Merriam-Webster's Collegiate Dictionary, 11th edn For standard US spelling.
American Psychological Association Publication Manual, 5th edn (2001)
American Psychological Association, Washington, DC (available from
http://www.apastyle.org/pubmanual.html).
American Sociological Association Style Guide, 2nd edn (1996)
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Blackwell's Dictionary of Nursing (1994)
Blackwell Science, Oxford.
Butterworths Medical Dictionary, 2nd edn (1978)
edited by M. Critchley. Butterworth, London.
Dictionary of Medical Acronyms and Abbreviations, 4th edn (2001)
by S. Jablonski. Hanley \& Belfus, Philadelphia, PA.
A Guide to IUPAC Nomenclature of Organic Compounds: Recommendations (1993)
by J.-C. Richer, R. Panico and W. H. Powell. Blackwell Scientific Publications, Oxford.
See also http://www.iupac.org/dhtml_home.html
List of Journals Indexed in Index Medicus (published annually)
US Department of Health and Human Sciences, National Library of Medicine, Bethesda, MD.
See also http://www.nlm.nih.gov/tsd/serials/lji.html
Mosby's Dental Dictionary (1998)
edited by T. J. Zwemer. Mosby, London.
Mathematics into Type (1999)
by E. Swanson. American Mathematical Society, Providence, RI.
Medical Directory (2003)
See http://www.informalaw.com/LPP863/?source=healthcare
Units, Symbols and Abbreviations: A Guide for Medical and Scientific Authors, 5th edn (1994)
edited by D. N. Baron. The Royal Society of Medicine Press, London.
Stedman's Medical Dictionary, 27th edn (2000)
Lippincott Williams \& Wilkins, Hagerstown, MD.
Who's Who
See http://www.marquiswhoswho.com/

## USAGE GUIDES

The New Fowler's Modern English Usage, 3rd edn (1998)
revised by R. W. Burchfield. Oxford University Press, Oxford.
The Elements of Style, 4th edn (2000)
by W. Strunk Jr and E. B. White. Allyn \& Bacon, Needham Heights, MA.
Modern Australian Usage, 2nd edn (1997)
by N. Hudson. Oxford University Press, Melbourne.
Longman Guide to English Usage (1996)
by S. Greenbaum and J. Whitcut. Penguin, London.

## GENERAL BOOKS

How to Copyedit Scientific Books and Journals (1986)
by M. O'Connor. ISI Press, Philadelphia, PA.
Woe is I: The Grammarphobe's Guide to Better English in Plain English (1996)
by P. T. O'Conner. Riverhead Books, New York, NY.
The New Print Production Handbook (1997)
by D. Bann. Little \& Brown, London.
The Australian Editing Handbook (2001)
by E. Flann and B. Hill. Common Ground Publishing, Australia.
On Writing, Editing and Publishing, 2nd edn (1986)
by J. Barzun. University of Chicago Press, Chicago, IL.

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[^0]:    ICU intensive care unit

