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ISSN: 1045-1056

## DESCRIPTION

*Biologicals* provides a modern and multidisciplinary international forum for news, debate, and original research on all aspects of biologicals used in human and veterinary medicine. The journal publishes original papers, reviews, and letters relevant to the development, production, quality control, and standardization of biological derived from both novel and established biotechnologies. Special issues are produced to reflect topics of particular international interest and concern. Three types of papers are welcome: original research reports, short papers, and review articles. The journal will also publish comments and letters to the editor, book reviews, meeting reports and information on regulatory issues.

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- Cell culture technology
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- Cytokines and allied mediators
- Diagnostics
- Downstream processing
- Gene transfer and expression
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- Hormones
- Immunochemistry
- Molecular biology
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- Parasitology
- Prion and prion disease
- Protein chemistry
- Toxins
- Toxoids
- Viral vaccines

## IMPACT FACTOR

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## ABSTRACTING AND INDEXING

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Scopus  
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### INTRODUCTION

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- BCG Bacille Calmette-Guerin
- CCID50 median cell culture infective dose
- CCTD50 median cell culture toxic dose
- CF complement fixation
- cfu colony forming units
- cpe cytopatahic effect
- cpm counts per minute
- DEAE-cellulose diethylaminoethyl-cellulose
- DF degrees of freedom
- DNA deoxyribonucleic acid
- eop efficiency of plating
- HA haemagglutination
- HAI haemagglutination inhibition
- IgA immunoglobulin A
- ID50 median infective dose
- IgE immunoglobulin E
- IgG immunoglobulin G
- IgM immunoglobulin M
- ImD50 median immunizing dose
- IU International Unit
- Lf Flocculation unit
- LD50 median lethal dose
- MIC minimum inhibiting concentration
- NCTC National Collection of Type Cultures
- PAGE polyacrylamide gel electrophoresis
- P probability
- PD50 median paralytic dose
- pfu plaque forming unit
- RBC erythrocyte
- RNA ribonucleic acid
- SDS sodium dodecyl sulphate
- SD standard deviation
- SEM Standard error of the mean
- WBC leucoyte

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#### *Examples:*

Reference to a journal publication:

[1] Van der Geer J, Hanraads JAJ, Lupton RA. The art of writing a scientific article. *J Sci Commun* 2010;163:51–9. <https://doi.org/10.1016/j.Sc.2010.00372>.

Reference to a journal publication with an article number:

[2] Van der Geer J, Hanraads JAJ, Lupton RA. The art of writing a scientific article. *Heliyon*. 2018;19:e00205. <https://doi.org/10.1016/j.heliyon.2018.e00205>

Reference to a book:

[3] Strunk Jr W, White EB. *The elements of style*. 4th ed. New York: Longman; 2000.

Reference to a chapter in an edited book:

[4] Mettam GR, Adams LB. How to prepare an electronic version of your article. In: Jones BS, Smith RZ, editors. *Introduction to the electronic age*, New York: E-Publishing Inc; 2009, p. 281–304.

Reference to a website:

[5] Cancer Research UK. *Cancer statistics reports for the UK*, <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>; 2003 [accessed 13 March 2003].

Reference to a dataset:

[dataset] [6] Oguro M, Imahiro S, Saito S, Nakashizuka T. Mortality data for Japanese oak wilt disease and surrounding forest compositions, Mendeley Data, v1; 2015. <https://doi.org/10.17632/xwj98nb39r.1>.

Note shortened form for last page number. e.g., 51–9, and that for more than 6 authors the first 6 should be listed followed by 'et al.' For further details you are referred to 'Uniform Requirements for Manuscripts submitted to Biomedical Journals' (*J Am Med Assoc* 1997;277:927–34) (see also [Samples of Formatted References](#)).

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