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   Hugo, W. B., and Franklin, I. (1968) Cellular lipid and the antistaphylococcal activity of phenols. *J. Gen. Microbiol*., **52**, 365-373.

   Kourai, H., Manabe, Y., Matsutani, E., Hasegawa, Y., and Nakagawa, K. (1995) Antimicrobial activities of alkylallyldimethylammonium iodides and alkylallyldiethylammonium iodides. *J. Antibact. Antifung. Agents*, **23**, 271-280. 〔Before 1996〕

   Ueda, S., Mineno, J., and Kuwabara, Y. (1999) Evaluation of the PCR method for the detection of verotoxin-producing *Escherichia coli* in foods and other meterials (in Japanese). *Bokin Bobai*, **27**, 441-446. 〔After 1997〕

   Reid, G., Khoury, A., and Nickel, J. C. (1991) The process of microbial biofilm formation in medical devices. In *Biodeterioration and Biodegradation 8* (Rossmoore, H. W., ed.), pp. 187-195, Elsevier Science Publishers, New York.
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The Code of Ethics of the Society for Antibacterial and Antifungal Agents, Japan is as follows:

1) The papers intended for the human body shall be the studies conducted with iv-vrespect for "the Declaration of Helsinki" (1964, Revised 2008), "Ethical Guidelines for Epidemiological Studies" by the Ministry of Education / the Ministry of Health, Labor and Welfare; "Ethical Guidelines for Clinical Studies" by the Ministry of Health, Labor and Welfare; "Ethical Guidelines for Studies on the Human Genome and Gene Analyses" by the Ministry of Education / the Ministry of Health, Labor and Welfare / the Ministry of Economy, Trade and Industry and other similar ethical guidelines. In either case, please add a note, in a submitted paper, that the study has been conducted with the approval of the Ethical Review Board of an affiliated organization.

2) The papers dealing with animals shall be the studies that have been conducted with respect for the guideline for animal experiments specified by the Ethical Review Board of the affiliated organization based on the intention of "Act on Welfare and Management of Animals"; "Basic Guidelines for Conducting Animal Experiments in the Organization Under the Jurisdiction of the Ministry of Health, Labour and Welfare"; and "Standard for Breeding / Safekeeping of Animals for Experiments and the Reduction of Pain" by the Ministry of the Environment. Please add a note, in a submit-ted paper, that the study has been conducted with the approval of the Ethical Review Board of an affiliated organization.

TABLE 1 . Selected quantities, units, and symbols.

Quantity	Symbol	Unit
Time	*t*	yr (not year), mo (not month), wk (not week), d (not day), h (not hour), min, s (not second), ms, μs, ns
Length	*l*	m, mm, μm (not μ), nm
Area	*A*	m^2, cm^2, mm^2, μm^2, nm^2
Volume	*V*	m^3, dm^3, cm^3, mm^3, μm^3, nm^3 kL, *L*, mL, μL, nL
Mass	*m*	kg, mg, μg (not γ), ng
Concentration	*C*	M, mM, μM, nM
Amount of substance	*n*	mol, mmol, μmol, nmol
Molecular mass	*m*	Da (dalton)
Relative molecular mass	*Mr*	dimensionless
Molar mass	*M*	$g \cdot mol^{-1}$
Temperature	*T*	K, ℃
Heat	*q, Q*	kJ, J (not cal)
Electricity and magnetism		
Electric current	*I*	A, mA, μA
Potential difference	*V*	V, mV, μV
Capacitance	*C*	F (farad)
Magnetic field strength	*H*	G (gauss)
Resistance	*R*	Ω
Conductivity	κ	S (Ω^{-1})
Force	*F*	N ($kg \cdot m \cdot s^{-2}$)
Pressure	*P*	Pa ($N \cdot m^{-2}$), atm, bar, mbar, torr, kg/cm^2, mm Hg
Sedimentation coefficient	*s*	S ($=10^{13}$s)
Density	ρ	$g \cdot cm^{-3}$
Relative density	*d*	dimensionless
Viscosity	η	P (=0.1 Pa·s)
Frequency	*v , f*	Hz
Wavelength	λ	nm (not mμ)
Absorbance	*A*	dimensionless
Transmittance	*T*	dimensionless
Molar absorption coefficient	ε	$M^{-1} \cdot cm^{-1}$
Ionic strength	*I*	M ($mol \cdot l^{-1}$), mM
Energy	*E*	J (not cal)
Gibbs free energy	*G*	J (not cal)
Equilibrium constant	*K*	dimensionless
Michaelis constant	*Km*	M, mM
Inhibition constant	*Ki*	M, mM
Rate constant	*k*	s^{-1}, $M \cdot s^{-1}$
Rate of reaction	*v*	$mol \cdot s^{-1}$, $mmol \cdot s^{-1}$
Other units		
Curie		Ci
Roentgen		R

(*cont'd*)

(*cont'd*)

Acceleration of gravity	g
Prefixes for units：E, exa (10^{18})；P, peta (10^{15})：T, tera (10^{12})；G, giga (10^{9})；M, mega (10^{6})；k, kilo (10^{3})；h, hecto (10^{2})；da, deca (10^{1})；d, deci (10^{-1})；c, centi (10^{-2})；m, milli (10^{-3})；μ, micro (10^{-6})；n, nano (10^{-9})；p, pico (10^{-12})；f, femto (10^{-15})；a, atto (10^{-18}).	

TABLE 2. Abbreviations for words other than units, quantities, or chemical compounds.

BOD	biological oxygen demand
b.p.	boiling point
calc.	calculated
cf.	compare
COD	chemical oxygen demand
conc.	concentrated
concn	concentration
cpm	counts per minute
dil.	dilute
dpm	disintegration per minute
e.g.	for example
et al.	et alia (and others)
Expt. (pl. Expts.)	Experiment(s)
Fig. (pl. Figs.)	Figure(s)
i.e.	that is
max.	maximum
min.	minimum
m-, p-, o-	meta-, para-, ortho-
m.p.	melting point
n-	normal
no.	number
%	percent
p. (pl. pp.)	page(s)
ppb	parts per billion
ppm	parts per million
ppt.	precipitate
ref. (pl. refs.)	reference(s)
R_f	distance traveled by zone, divided by distance traveled by solvent front
rpm	revolutions per minute
S.D.	standard deviation
S.E.	standard error
sec-	secondary
spec. act.	specific activity
temp.	temperature
tert- (*t-*)	tertiary
UV	ultraviolet
vol. (pl. vols.)	volume(s)
vs.	versus
v/v	volume : volume
vvm	volume per volume per minute
wt.	weight
w/v	weight : volume
w/w	weight : weight

TABLE 3. Abbreviations for chemical compounds (these abbreviations may be used without definition).

ADP	adenosine 5'-diphosphate
AMP	adenosine 5'-monophosphate
ATP	adenosine 5'-triphosphate
ATPase	adenosine triphosphatase
CoA	coenzyme A
DNA	deoxyribonucleic acid
cDNA	complementary DNA
DNase	deoxyribonuclease
EDTA	ethylenediaminetetraacetic acid
FAD	flavin adenine dinucleotide
FMN	flavin mononucleotide
NAD, NAD^+	nicotinamide adenine dinucleotide
NADH	reduced NAD
NADP, $NADP^+$	nicotinamide adenine dinucleotide phosphate
NADPH	reduced NADP
RNA	ribonucleic acid
mRNA	messenger RNA
rRNA	ribosomal RNA
tRNA	transfer RNA
RNase	ribonuclease
SDS	sodium dodecylsulfate
Tris	Tris (hydroxymethyl) aminomethane

Aims and Scope

The *Biocontrol Science* provides a medium for the publication of original articles, concise notes, and review articles on all aspects of science and technology of biocontrol. Such areas include：

1. Food microbiology, pharmaceutical microbiology, medical microbiology, environmental microbiology, and microbial ecology in relation to biocontrol
2. Stress response, injury and repair, and adaptation in microorganisms
3. Methodology for rapid, accurate or automatic detection and measurements of microorganisms and their activities and for the evaluation of control
4. Chemical synthesis, antimicrobial activity, and the mode of action of biocides and biostatic compounds
5. Naturally occurring antimicrobial compounds
6. Sterilization, disinfection, cleaning, and sanitation
7. Control mechanisms and principles of control
8. Control technology and control systems
9. Biodeterioration and preservation of food, pharmaceuticals, wood, water, wastes, textiles, industrial materials, buildings, paints, oils, lubricants, metals, rubbers, plastics, etc.
10. Biofouling and biofilm
11. Contamination and infection by bacteria, fungi, and viruses
12. Biodegradation, bioremediation, biological insecticides and other techniques of utilizing microorganisms
13. Process control of bioproduction and fermentation control
14. Biohazard and its control
15. Maintenance of microorganisms and their activities

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