

## Keyword index to Volume 27

- $\beta$ -xylosidase, 241  
1,3-propanediol, 18  
4-hydroxybenzoic acid, 5  
acetoin, 220  
acid phosphatase, 265  
actin interaction, 149  
actinomycete genetics, 183  
aerial hyphae formation, 177  
aerobic degradation, 67  
A-factor receptor protein, 177  
airlift reactor with an internal loop (ALR-IL), 208  
alfalfa sprouts, 129  
alginate, 337  
alkaline phosphatase, 265  
anaerobic, 11  
angucyclinone antibiotics, 144  
anthelmintic, 170  
antibiotic, 62  
antibiotic biosynthesis, 183, 360, 386  
antifungal compounds, 157  
aromatic hydrocarbons, 94  
*Aspergillus awamori*, 52  
avermectin, 170  
*Azotobacter*, 5
- Bacillus*, 234  
bacterial amelioration, 228  
bacteriophage, 126  
bauxite residue waste, 228  
biocontrol, 203  
biodegradation, 11, 94  
biofilm, 343  
bioluminescence, 126  
biomass, 195  
biopesticide, 337  
bioremediation, 27, 72  
biosorbent, 126  
biosynthesis, 378  
biosynthetic gene cluster, 170  
bleomycin, 378  
branched-chain fatty acids, 246  
brewing, 34  
*Burkholderia cepacia*, 27  
butanediol, 220
- cadmium, 11  
calcium antagonist, 62  
capsule, 1  
cephalosporin biosynthesis, 252  
chemical diversity, 144  
chemostat, 18  
chromium enrichment, 195  
chromosomal integration, 27  
CID-MS/MS, 136  
clostridia, 220  
*Clostridium pasteurianum*, 18  
coadhesion, 343  
*Coleomycetes*, 157  
composting, 67  
contamination, 39
- cultivation conditions, 195  
cystathione- $\gamma$ -lyase, 252  
decomposition, 67  
*Deinococcus geothermalis*, 343  
deoxysugar formation, 183  
dimethylsulfoxide, 46  
dioxygenase, 94  
disclosure of metabolites, 136  
DNA hybridization, 72  
doramectin, 368
- E. coli* O157:H7, 129  
electron transport inhibitors, 149  
enzyme, 220  
*Escherichia coli*, 259  
Evernimicin, 386  
exopolysaccharide, 1
- FabH, 246  
fatty acid biosynthesis, 246  
fermentation, 34, 144, 259  
food safety, 111  
food wastes, 67  
foodborne illness, 117  
foodborne pathogens, 111  
forosamine, 399  
frankamide, 62  
fresh-cut produce, 111  
fruit, 104  
fuel alcohol, 39, 87  
fungus, 52  
*Fusarium verticillioides*, 241
- gas hold-up, 208  
gene amplification, 252  
genome data, 163  
GH<sub>4</sub>C<sub>1</sub> rat pituitary cells, 62  
glycerol fermentation, 18  
glycosyltransferase, 386  
gold, 1  
granaticin, 183
- Hansenula polymorpha*, 58  
hepatitis A virus, 117  
hirudin, 58  
hybrid peptidepolyketide, 378  
*Hyphomonas*, 1
- immobilised bacteria, 337  
immobilized *Erwinia chrysanthemi* cells, 215  
immunoassay, 129  
inoculant, 337
- ketoacyl ACP synthase III, 246
- labyrinthulomycota, 199  
lactic acid production, 259  
*Lactobacillus*, 39  
*Lagenidium giganteum*, 203  
lipopeptide, 157  
liquid recirculation velocity, 208  
low oxygen expression, 27
- magnetic beads, 126
- maltose, 34  
maltotriose, 34  
mass spectrometry, 136  
*mecB*, 252  
metal-sequestration, 1  
methanogenic, 11  
methanol, 58  
methanol oxidase promoter, 58  
methylmalonyl CoA, 368  
*Micromonospora*, 386  
microbial community, 72  
mitochondrial ribosomes, 163  
mixing time, 208  
modified atmosphere packaging, 111  
monensin, 360, 368  
mosquito larvicide, 203  
MS applications in natural products screening, 136  
MS methods, 136  
MS", 136  
multistage continuous culture, 39, 87  
myxobacteria, 149
- n*-butanol, 18  
naphthalene, 94  
neutron activation analysis, 195  
nitrate, 80  
nitrate-reducing bacteria, 80  
nonribosomal peptide synthetase, 378  
Norwalk virus, 117
- oil contamination, 72  
oligosaccharide antibiotic, 386
- paper machine, 343  
pathogen, 104  
PCR, 129  
pectolytic enzyme, 215  
pentachlorophenol, 11  
pentoses, 259  
petroleum, 80  
pH auxostat, 18  
phylogenetic relationship, 163  
pikromycin 368  
polyether, 360  
polyketide, 399  
polyketide metabolism, 46  
polyketide synthase, 170, 183, 360, 368, 378, 393  
polysaccharides, 5  
polyunsaturated fatty acids, 199  
production of ethanol, cellulose carrier 52  
protein tyrosine phosphorylation, 177  
proteolytic enzyme, 215  
*Pseudomonas*, 337  
*Pseudomonas aeruginosa*, 27  
*Pythium*, 337
- Rainbow® Agar, 129  
reaction mechanism, 393
- reduction, 220  
refrigeration, 111  
repeated batch operation, 52  
*Rhizoctonia*, 337  
ribosomal proteins, 163  
rifamycins, 183  
RNA polymerase inhibitors, 149  
rotavirus, 117
- sanitizer, 104  
*Saccharomyces*, 34  
*Saccharomyces cerevisiae*, 39, 87  
*Saccharomyces pastorianus*, 52  
*Saccharopolyspora spinosa*, 399  
*Salmonella enteritidis*, 126  
scanning electron micrographs, 228  
scleroglucan, 208  
*Scytalidium thermophilum*, 265  
signal transduction, 177  
simultaneous saccharification and fermentation, 52  
site-directed mutagenesis, 94  
slurry bioreactor, 67  
solid-state cultivation, 203  
source of natural products, 149  
spinosyn, 399  
stainless steel, 343  
*Streptomyces*, 368  
*Streptomyces antibioticus*, 144  
*Streptomyces avermitilis*, 170  
*Streptomyces fradiae*, 46  
*Streptomyces verticillus*, 378  
streptomycin biosynthesis, 177  
stringent response factor ppGpp, 177  
substrate specificity, 393  
subtropical mangroves, 199  
sulfate, 80, 157  
sulfate-reducing, 11  
sulfate-reducing bacteria, 80  
sulfide, 80  
sulfur metabolism, 252
- TaqMan®, 129  
thermophile, 234  
thermophilic fungi, 265  
three-dimensional structure, 393  
transport, 34  
tri-O-methyl rhamnose, 399  
tubulin interaction, 149  
tylosin production, 46
- vegetable, 104  
very high gravity (VHG), 39, 87  
VHB, 27  
*Vitreoscilla hemoglobin*, 27  
*Vitreoscilla hemoglobin gene*, 27
- xylan, 241  
xylobiose, 241  
xylooligosaccharides, 241  
xylose isomerase, 234
- yeast, 195