

国立医薬品食品衛生研究所報告第125号キーワード索引 (アルファベット順)

**A**

*ABCBI* 236  
 ABCB1 237  
 ABCC1 233  
 ABCC3 234  
 Acridine orange supravital staining 17  
 acrolein 265  
 Acrylamide 253  
 Actinidia spp. 213  
 adenovirus serotype 35 vector 190  
 adenovirus vector 193, 194  
 adequate drug use 241  
 ADI 240  
 adipogenesis 242  
 adjuvant 218  
 adverse event 240  
 aerobic stress 288  
 aflatoxin 290  
 AFLP 224  
 agaritine 213  
 AIDS 218  
 allergen 234, 284  
*Aloe arborescens* 200  
 ALOP 287  
 alpha-eleostearic acid 257  
 alternative 253, 295  
 alum 218  
 ammonium sulfate 259  
 amorphous 186, 189  
 amorphous state 189  
*Ampelopsis japonica* 200  
 analytical method 274, 289  
 aneugens 204  
 angiogenesis 196  
 angiotensin II 202  
 animal health 286  
 animal tests 267  
 anion-exchange spin column 216  
 annexin A3 192  
 anthraquinone 228  
 antibody 227  
 antifungal activity 198  
 anti-HIV activity 218  
 antimicrobial agent 203

Antimicrobial drug resistance 220  
 anti-TNF-  $\alpha$  antibody 188  
 anti-viral activity 229  
 Aortic smooth muscle cells 251  
 Ara h1 285  
 arachidonic acid 205  
 Aromatase inhibitor 243  
 arsenic 1, 207, 217  
 arsenic metabolites 207  
 arsenic-affected families 1  
 ascorbic acid 256  
 Assay conditions 198  
 atherosclerosis 241  
 atomic force microscopy 282  
 auto correlation 215  
 autoclave 280  
 automation 266  
 AUR 278  
 azaspiracid (AZA) 237  
 azodicarbonamide 285

**B**

B and C 198  
 B lymphopoiesis 246  
 bacterial contamination 224  
 bacterial count 225  
 bacterial strain typing 224  
 baby toys 285  
 bacteremia 286  
 Bangladesh 1  
 benchmark dose 240  
 benzene-induced leukemia 245, 247, 294  
 benzophenones 219  
 benzyl isothiocyanate 257  
 betaine 218  
 bfpA 222  
 bilirubin 233  
 bioassay 260  
 biocompatibility 208  
 biodegradable materials 281  
 biological indicator 280, 281  
 biologicals 277, 279  
 biotin 186  
 biotype 223  
 bisphenol A 219

bivalve molluses 291  
bottled food 220  
brain development 244  
bread 228  
BSE 221  
Bt10 214  
Bulk drug manufacturing process 190  
butylhydroxytoluen 255

## C

Caco-2 221  
cadmium 203  
Cadmium sulfide 89  
Calcium 185  
calcium 191  
calcium phosphate 203  
calibration 215  
*Campylobacter* 286, 288  
Campylobacter 220  
cancer therapy 276  
cap sealing 219, 220, 285  
capillary-type real-time PCR system 211  
carbon-ion beam 264  
carbopeptoid 228  
carcinogenicity 259  
carcinogens 262  
cardiomyocyte 185  
cardiomyocytes 202  
cardiovascular adverse events 291  
caspase 196, 273  
causative product chemical relationship 279  
CD45 195  
cell patterning 204  
cell penetrating peptide 188  
cell proliferation 205, 243  
cell therapy 276  
cell/tissue-engineered medical products 281  
cellular injury 273  
cellular therapeutics 279  
chemical agent 291  
chemical disaster 291  
chemical disinfection 281  
chemical compositional analysis 197  
chemical incident 291  
chemical stability 273  
chemical substance 283  
chemical synthesis 229

chemometric 274  
chemoprevention 264  
chemotaxis 236  
childhood exposure 240  
chitinase 219  
chlorination 209  
CHO cells 238  
cholesterol 295  
chondroitin sulfate 197, 205, 216, 285  
chromosomal aberration 262  
chromosomal damage 263  
chronic toxicity 259  
chrysotile asbestos 269  
CIE 1976  $L^*a^*b^*$  color system 200  
CIS (D) 239  
cisplatin 238  
clam 222  
clastogens 204  
clean room 205, 281  
clinical pharmacokinetic interaction 293  
clinical trial 292  
Codex 286, 291  
coliform bacteria 287  
colon 260  
colorimeter 200  
Comet assay 267  
commercially available product research 203  
Comparative table 198, 200  
computational study 230  
conclusions 265  
condroitin sulfate 278  
conformation 229  
conformational analysis 230  
conformational search 230  
conjugated ketonic fatty acid 212  
contamination 225  
control 290  
cooking process 217  
cooperative strand invasion 229  
cosmetics 65, 86, 89  
Cot kinase 235  
COX-2 inhibitors 291  
crosscorrelation 215  
Crude drug 198, 200  
crude drugs 278  
CryIAb 235  
CryIAc 211  
Crystal polymorph 190

crystallization 186, 189  
 crystallization rate 190  
 Cucurbitacin glycoside 198  
 culture method 280  
 current studies 288  
 current trend 280  
 CXCL8 236  
 CYP2C19 234  
 CYP2C9 233  
 CYP2D6 231, 232  
 CYP3A4 293  
 cytidine deaminase 241  
 cytochalasin B 204, 238  
 cytokine/chemokine 194  
 cytotoxicity 61, 228

## D

database system 203  
 degranulation 235  
 delta 5 and delta 6 desaturase 205  
 deoxynivalenol 227, 228  
 detection 225  
 detection method 210, 211, 212, 214, 288  
 detection methods for irradiated foods 284  
 developmental toxicity 35  
 dextran sodium sulfate 260  
 dibutyltin 271  
 dibutyltin dichloride 271  
 differentiation 206  
 dihomogamma-linolenic acid (DGLA) 205  
 dimerization 251  
 dimethylethylpyrazine 219  
 di-o-tolylguanidine 271, 272  
 dioxin-like PCBs 209  
 dioxin 283  
 dioxins 210  
 disinfectants 281  
 Diterpene 201  
 Dissolution rate 274  
 DMBA 257  
 DMH 257  
 DNA 238  
 DNA cleavage 230  
 DNA damage 267  
 DNA double strand break (DSB) 269  
 DNA extraction method 215  
 DNA microarray 241

DNA polymerase 270  
 DNA polymerases 270  
 DNA polymerase  $\eta$  270  
 DNA sequence 226  
 domoic acid (DA) 237  
 dosimetric release 280  
 DPPH 213  
*Dracocephalum komarovi* 201  
 drug interaction 240, 241  
 drug metabolizing enzymes 290  
 drug supply 215  
 drug-polymer interaction 190  
 dry heating 281  
 DsRed 239  
 dunaliella carotene 257  
 duplex PCR 211

## E

*E. coli* 287  
*E. coli* RNA polymerase 224  
 East Asians 291  
 early embryonic loss 271  
 EBM 292  
 EHEC 286  
 electrical stimulation 245  
 electron beam 284  
 electrospray ionization 186  
 ELISA 209, 216, 235  
 embryoletality 271  
 embryonic stem cells 245  
 emission of volatile organic compounds 79  
 encephalopathy 212  
 Endocrine disruptors 224  
 endothelial cells 196  
 enrichment 288  
*Enterobacter sakazakii* 291  
*enteropathogenic Escherichia coli* 222  
 enthalpy relaxation 190  
 Epitope mapping 187  
 epoxidized soybean oil 219, 220  
 ER glucosidases 229  
 ER stress 230  
 ERK1/2 248  
 erroneous incorporation 270  
 Eruption 248  
*Escherichia coli* serotype O157 : H7 291  
 estradiol 260

estrogen 252  
estrogen receptor 193, 238  
ethylene oxide 281  
Eupenicillium shearii 198  
eushearilide 198  
evaluation method 274  
evidence 292  
Excipient 273  
excipients 189  
excited state 239  
Exploratory clinical studies 276  
extracellular signal-regulated kinase (ERK) 250  
extracellular signal-regulated kinase (ERK1/2) 252  
extract 61

## F

F344 rats 257, 258, 261  
false positive 237, 267  
ferric nitrilotriacetate 265  
FHH 198, 200  
fish 209  
fish roe 284  
flagella 221  
flavonoid 279  
flavouring agent 219  
flow cytometric analysis 261, 262, 263  
flow cytometry 266  
fluorescence microscopy 185  
Fluorescent probe 273  
FMO 238, 239  
FMO-MD 239  
food 209, 217, 289  
food additive 217  
food additives 218, 285  
food allergen 216  
food allergy 212, 213  
food contact articles 285  
food contamination 223, 288  
food irradiation 107, 210, 284  
food poisoning 286  
Food Protection 292  
food safety 283, 286  
foods 51  
food-to-human transmission 222  
formulation 186  
freeze-drying 186  
frozen and injured pathogenic bacteria 288

frozen cells 264  
FSO 287  
function 233, 234  
fungal identification 226  
Fusarium 226  
future prospective 280  
FXR 192

## G

G protein 202  
G12 family G protein 250  
GABAA 279  
gamma-ray 281  
gastroenteritis outbreaks 286  
gap-junctional intercellular communication 206  
Garden balsam extract 199  
gastrointestinal stromal tumor (GIST) 258  
GC/MS 215  
G-CSF 195  
GDL-1 cell line 265  
GEA3162 248  
gemcitabine 241  
gene expression 191  
gene expression cascade 294  
Gene expression study 243  
Gene fragment library 187  
gene therapy 276, 277  
GeneChip analysis 242  
General testing methods 200  
genetic polymorphism 231, 232, 233, 234, 241, 290  
genetically modified 214  
genetically modified maize 211, 214, 215  
genetically modified papaya 211  
genetically modified rice 211  
Genomic integrity 269  
genotoxicity 266, 267, 268  
Genotoxicity assay 17  
genotoxicity in vitro 267  
genotoxicity testing 265, 296  
Genotoxicity tests 296, 297  
*Genus Panaeolus* 200  
*Genus Psilocybe* 200  
Geranium Herb 200  
germ cell mutagen 291  
germ cell mutagenicity 296  
germ line integration 276  
gerontology 293

GHS 291, 296  
 glass transition 189, 273  
 glass transition temperature 190  
 glucuronidation 240  
 glutamate 244  
 glutamate transporters 244  
 Glycidamide 253  
 Glycine max L. 212  
 GMP inspection 275  
 goitrogen 260  
 Gompertzean law of mortality 245, 294  
 gpt delta mouse 269  
*gpt*-delta mice 258, 265, 269  
 Granule manufacturing process 274  
 granulopoiesis 195  
 growth 226  
 growth factor combinations 204  
 growth plate 204  
 GST polymorphisms 207  
 gyr A mutation 220

**H**

HaCaT 250  
 HaCaT cell 250  
 halophilic 186  
 haplotype 231, 232, 233, 236  
 hazard classification 296  
 Hazard identification 266, 291  
 health foods 278  
 health food origin 197  
 hepatic disorder 286  
 Heart formation 242  
 heavy metals 285  
 helical structure 230  
 helix 229  
 Hematopoiesis 247  
 heparin 216  
 hepatocyte growth 192  
 herbal materials 199  
 herbal medicines 278  
 high-performance liquid chromatography 228  
 high-throughput screening 187  
*Hijikia fusiforme* 217  
 hippocampus 252  
 history 296  
 HIV-1 Tat 187  
 HMDMA 198

HMPH 213  
 HNF4A 231  
 Homologous recombination (HR) 269  
 honey 210  
 hormones 229  
 household products 72, 79  
 HPLC 65, 207, 209, 274  
 HPLC/ICP-MS 217  
 HPV 297, 298  
 HPV programme 101, 298  
 HRT 193  
 human articular cartilage 205  
 human articular chondrocyte 206  
 human CD46 190  
 human CD46 transgenic mice 190  
 human colone 248  
 human IgE 235  
 human mesenchymal stem cells 279  
 Human osteoblast 243  
 human patch test 253  
 hyaluronic acid 205  
 hydrated formaldehyde 239  
 hydride generation-cold trap-atomic absorption spectrometry 217  
 hydroxyl radical 253  
 hypersensitivity 208  
 hypertrophic differentiation 204

**I**

ICH 276, 277, 290  
 ICH guideline 274, 275  
 ICP-MS 86, 89  
 IFA 218  
 IgE 234  
 IgE receptor 234  
 immunoaffinity column 228  
 immunoglobulin-G 194  
 immunological activity 285  
*Impatiens balsamina* 199  
 implantation failure 35  
 import quantity 92  
 in vitro micronucleus assay 238, 264  
 in vitro mutation 268  
 in vivo-only positive compounds 238  
*In vitro* versus *in vivo* metabolism 296  
 indomethacin 260  
 indoor air 79

indoor air quality 72  
induced radioactivity 107, 284  
Inducibility 208  
industrial chemicals 240  
infection 287  
influenza propagation 215  
information delivery system 279  
inhibitor 229, 230  
injured microorganisms 280, 281  
INN 277, 279  
innate immunity 287  
inorganic arsenic 217  
insulin 189  
interaction 270  
interlaboratory validation 216  
interleukin 202  
interleukin 6 194, 250  
internal transcribed spacer 213  
international conference of harmonization (ICH) 293  
International harmonization 285  
interstitial cell of Cajal 258  
intracellular drug delivery 187  
introduction 288  
iodine deficiency 261  
IQ 256  
Iridoid glycoside 198  
irinotecan 236  
irradiation 281  
I-SceI, Deletion 269  
Isolated hepatocytes 253  
isolation 225  
isotope dilution method 215  
ITS 213  
IWGT 237, 238, 296, 297  
IWGT workshops 265, 296

**J**

Jacalin 195  
JAN 277, 279  
Japan 221  
Japanese 231, 232, 234  
Japanese common squid 210  
Japanese Pharmacopoeia 273, 278

**K**

Kampo formula 199

Kampo formulations 278  
kilobase-sized mutation 269  
KIT 258  
kiwifruit 213  
knockdown 291

**L**

lactic acid bacteria 286, 287  
laboratory-performance study 214  
*Lactobacillus casei* 223  
LAMP 225  
lateral flow strip assay 211  
LC/MS 219  
LC/MS/MS 193, 277  
LCMS 186, 213  
LC-MS/MS 254  
LC-NMR 219  
lipid rafts 295  
lipopolysaccharide. 224, 288  
liquid egg 224  
liquid-liquid extraction 280  
*Listeria monocytogenes* 222, 288  
LLNA 217  
local mobility 188  
long-chain fatty acid 212  
loss of heterozygosity 268  
loss of heterozygosity (LOH) 264, 269  
low-dose-rate radiation 269  
low-molecular weight heparin 216  
lung carcinogen 255  
Lycopodium alkaloid 198  
*Lycopodium hamiltonii* 198  
lyophilization 189

**M**

macrolide 198  
Magic mushroom 200  
maize 214  
malformation 271, 272  
mammary gland 261  
Maoto 196  
MAP kinase 201  
marine biotoxin 237, 291  
Mass spectrometry 194  
mast cell 247  
MBDB 198

MCP 238  
 MD-2 288  
 MDR1 237  
 meat 223  
 mechanical property 206  
 mechanical strain 204  
 mechanism 289  
 megastigmane glucosides 213  
 memory 245  
 menopause 193  
 mercury 86  
 Mesp1 244  
 Mesp2 244  
 metabolism 268  
 metal 283  
 metal accessory 203  
 metastasis 196  
 methacarn 259  
 methoprene 209  
 mice susceptibility 222  
 microbial 210  
 Microbiological risk analysis 286  
 Microbiological risk assessment 237, 286, 287  
 Microbiological tests 285  
 microbiology 286  
 microchip electrophoresis 211  
 Microcystin-LR 203, 295  
 Microdose clinical studies 276  
 microglia 249  
 micronuclei 261, 262, 263  
 micronucleus 237  
 micronucleus assay 266  
 micronucleus test 238  
 milk 226  
 misincorporation 264  
 mitomycin C 265  
 MLFMO 239  
 MLFMO-CIS (D) 239  
 MMP 196  
 molecular integrity 259  
 molecular interaction 238  
 molecular mobility 189, 273  
 molecular toxicology 293  
 monitoring 92, 284  
 monitoring reports 51  
 monkey 271  
 morin 261  
 morphine 222

most probable number 205  
 mouse lymphoma assay 262, 268  
 MP2 238  
 MRLs 51  
 multifunctional column 228  
 multivariate analysis 212  
 muscarinic acetylcholine receptor 245  
 mushroom 213  
 mutation spectra 265  
 mutation spectrum 268  
 Muta™ Mouse 203  
 MutS  $\alpha$  270  
 MX 258  
 mycotoxin 289, 290

N

Na<sup>+</sup>/Ca<sup>2+</sup> exchange 185  
 Na<sup>+</sup>-Ca<sup>2+</sup> exchange 185  
*N*-acetylglucosaminyltransferase III 191  
*N*-acetylglucosaminyltransferase V 191  
 naitrite 295  
 nankakurine A 198  
 nankakurine B 198  
 naphthopyrone 200  
 naphthoquinone derivative 199  
 natural food additive 199  
 natural products 278  
 Nb ion 203  
 Near infrared spectroscopy 190, 274  
 near-infrared imaging 274  
*Neopicrorhiza scrophulariiflora* 198  
 neopterin 246, 247  
 Nerve growth factor 251  
*N*-ethyl-*N*-hydroxyethylnitrosamine 255  
 neuronal fate 245  
 neutralizing antibody 221  
 neutrophil 236  
 newborn rats 240  
 NF-kappaB 235  
 NF- $\kappa$ B 224  
 NIR 274  
 nicotine 196  
 nifedipine 189  
 nitric oxide 202, 253  
 nitroanthracene 228  
 nitrotyrosine 254  
 nivalenol 227

N-nitrosodiethylamine 203  
 NNK 264, 269  
 nobiletin 264  
 nodularins 295  
 non-clinical safety guideline 293  
 non-corrective and decorative contact lens 61  
 Non-homologous end-joining (NHEJ) 269  
 non-immune antibody library 187  
 noodle 228  
 normal human epidermal keratinocyte 206  
 norovirus 286  
*Norovirus* 286  
 Notch signaling 242  
 Nrf2 254  
 NSAIDs 291  
 nuclear reaction 107  
 nucleoside diphosphate kinase 186

## O

O157:H45 222  
 ochratoxin A 227, 228, 289, 290  
 OECD 101, 297, 298  
 official analytical method 283  
 official test-method 283  
 OGG1 254  
 okadaic acid (OA) 237  
 oligotrophic microorganisms 280, 281  
 oncolytic virus 277  
 Oncostatin M 247  
 organotin 35, 271  
 origin 278  
 orthophthalaldehyde 207  
*Oryza sativa* L. 219  
 osmotolerance 222  
 OTC 278  
 outbreak 291  
 oxidative stress 247  
 oxidized dNTPs 270  
 oxidized nucleotides 264  
 oxon 209  
 oyster 286

## P

P2Y 249  
 P2Y receptor 250  
 P2Y<sub>1</sub> 248

P2Y<sub>6</sub> 249  
 p53 264  
 package insert 241  
 Pain 249  
 paper 219  
 paraffin-embedded tissue 259  
 parametric release 280  
 Paraxis 244  
 partially N-acetylated chitosan 219  
 PAT 274  
 PCR 212, 213, 214  
 peanut 284  
 PECO (patient, exposure, comparison, outcome) 292  
 pediatric susceptibility 240  
 pentachlorophenol 254  
 Pentaketide chromone synthase 200  
 pepper 225  
 peptide 229, 230  
 peptide nucleic acid 229  
 percellome method 293  
 Periostin 248  
 Peripheral blood 17  
 peroxynitrite 254  
 pesticide 92, 283  
 pesticide residues 51  
 P-glycoprotein 237  
 phage display 188  
 phage display system 187  
 phagocytosis 249  
 Pharmaceutical development 275, 290  
 pharmacopeia 277  
 phenols 240  
 photodynamic therapy 228  
 Picrorosides A 198  
 plant origin 51  
 Platelets 251  
*Pleurocybella porrigens* 212  
 PLNA 217, 218  
 PMTDI 289  
 Poisson distribution 205  
 poly-L-lactic acid 206  
 polyunsaturated fatty acid 235  
 popliteal lymph node assay 217, 218  
 Positive List System for Agricultural Chemicals in Foods  
 283  
 potassium bromate 254, 255  
 Potassium bromate (KBrO<sub>3</sub>) 269  
 powdered infant formula 291



powdered processed aconite root 197  
 power spectrum density 215  
 precision 215  
 prediction of precision 216  
 pregnancy failure 271  
 prenatal developmental toxicity 271  
 preservative 61  
 primary cultured rat hepatocytes 192  
 Primates 208  
 probiotics 286, 287  
 Process analytical technology 190, 273, 274  
 process control 273  
 process validation 273  
 processed aconite root 197  
 progesterone 271  
 prohibited ingredients 86, 89  
 protein expression 291  
 protein imaging 282  
 protein kinase C  $\iota$  195  
 protein/peptide products 277  
 protein structure 186  
 protein transduction domain 187  
 provisional acute reference dose (RfD) 237  
 PTOV1 241  
 PubMed 292  
*Pueraria mirifica* 278  
 PVDC 220  
 pyrrole polyamide 218

**Q**

Qualitative PCR 214  
 quality 278, 290  
 quality evaluation 200  
 quantification 225, 226  
 quantitative polymerase chain reaction 215

**R**

radiation-induced leukemia 245, 294  
 radiation sterilization 281  
 radical scavenging 213  
 Raman spectroscopy 190  
 Random peptide library 187  
 rapid 225  
 rapid detection method 280  
 rasH2mouse 255  
 rat 271, 272

rat embryo 253  
 RBL-2H3 cells 235  
 reactive oxygen species 202  
 ready-to-eat 225  
 real-time imaging 196  
 real-time PCR 225, 226  
 receptors 229  
 recombinant 223, 287  
 recombinant DNA 211  
 recombinant P2X2 receptor 282  
 recovery 280, 281  
 reduced cerebral blood flow (CBF) 245  
 regenerative medicine 276, 279, 281  
 regulation 288, 289, 290  
 Regulatory implications 297  
 regulatory science 293  
 relationship 280  
 relative risk 291  
 repair 280  
 replicating virus 276  
 reporter assay 192  
 reproductive and developmental toxicity 272  
 reproductive toxicity 35  
 Resveratrol 200  
 resveratrol 257  
 retinoid X receptor 242  
 retinoid, apoptosis 201  
 revised test methods 285  
 revision 285  
 Rho 250  
 Ripply2-Mesp2 negative-feedback loop 243  
 risk analysis 237  
 risk assessment 266, 286, 298  
 risk communication 286  
 risk management 274, 275, 286  
 Rodent micronucleus assay 17  
 routine control 280  
 royal jelly 210  
 rRNA gene 200  
 rubber accelerator 271, 272  
 rubber allergy 279  
 RXR 192  
 Ryokeijutsukanto 199

**S**

safety 286  
 safety bioassay 293

safety evaluation 287  
*Salmonella* 224, 225, 286  
Salmonella Enteritidis 221  
sapovirus 222  
saury 210  
saxitoxin (STX) 237  
Schizandriside 200  
Scrophoside A 198  
Scrophulariaceae 198  
sea food 286  
seaweed 217  
secondary structure 229  
Sedation 279  
semicarbazide 285  
Senescence-accelerated mice (SAM) 247  
sensitive 225  
serotonin 248  
Serotonin (5-HT) 208  
shelf life 189  
*Shigella* 224  
shRNA 193  
SIDS Initial Assessment Meeting 101, 297, 298  
sigma factor 222  
sigma ligand 271, 272  
silicon 239  
single cell gel assay 267  
single-chain Fv 187  
siRNA 193, 291  
skin irritation 253  
SLC29A1/ hENT1 232  
small chamber test method 72, 79  
Smoke 291  
smoothing 215  
sodium nitrite 253, 256  
solid dispersion 190  
solid phase extraction 280  
solid-state stability 188, 189, 273  
solvatochromism 239  
Somite 243  
somitogenesis 244  
soybean 212  
speciation 217  
specifications and standards 285  
spice 225  
spinach 291  
splenocytes 216, 285  
src 248  
stability 186

standard IR spectrum 218  
standardization 294  
statins 293  
*Staphylococcus aureus* 223, 226  
stem cells 205, 279  
sterilants 281  
sterility assurance 280  
sterilization 280  
sterilization validation 280, 281  
Stochastic model 221  
strategy 268  
Stromal cell-derived factor 1 247  
stromal-cell-impaired mouse 246  
structure elucidation 198  
subchronic toxicity 258, 261  
sugar 226  
Sugihiratake 212  
sulfated hyaluronan 206  
*Sulfobolus solfataricus* 270  
sulforaphane 257  
sulfur dioxides 199  
sulfur fumigation 199  
sunscreen 65  
survival 226, 288  
synaptogenesis 252  
synthetic dye 217  
System based inspection 275

## T

Tamiflu 215  
TaqMan PCR 200  
taste evaluation 199  
taste-sensing system 199  
Tat 188  
TBARS 256  
TDI 240  
teratogenicity 35, 271, 272  
testing 268  
testing method 214, 215  
Testing strategies 221  
tetracyclines 210  
TGF  $\beta$  279  
TGF  $\beta$  signaling 205  
Th1/Th2 balance 216  
Th1/Th2 cytokine secretion 195  
the Japanese Pharmacopoeia 197, 285  
thermal analysis 186

Thioredoxin 247  
 thormo-luminescence 210  
 threshold 261, 262  
 Thromboxane A2 251  
 Thromboxane A2 receptor 250  
 thromboxane A2 receptor (TP)  $\alpha$  251  
 thromboxane A2 receptor-  $\alpha$  (TP  $\alpha$ ) 252  
 thromboxane A2 receptor-  $\beta$  (TP  $\beta$ ) 251, 252  
 thymidine kinase 268  
 Thymidine kinase (TK) 264  
 thyroid carcinogenesis 260  
 thyroid gland 260, 261  
 thyroid hormone 191  
 time-of-flight (ToF) -MS 212  
 tissue engineered medical devices 279  
 tissue engineering 203, 204, 276  
 titanium alloy 208  
 Tk assay 264  
 TK-mutation 269  
 TLC conditions 198  
 TNF-  $\alpha$  187  
 toll-like receptor 287, 288  
 Tooth 248  
 total aflatoxin 227  
 total diet survey 283  
 total fumonisin 227  
 toxic compounds 280  
 toxicity 289  
 toxicogenomics 293, 294  
 toxicology 293  
 transcription initiation 224  
 transcriptome 222  
 transferrin 194  
 transforming growth factor-  $\beta$ 1 206  
 transposon 224  
 Tributyltin chloride 242  
 Tricholomataceae 212  
 triglyceride 219  
 trimeric G-protein 295  
 triolein 212  
 TRP channels 202  
 TRP channels calcium 202  
*Trypanosoma cruzi* 201  
 tumor necrosis factor (TNF)-  $\alpha$  196  
 two-dimensional electrophoresis 253  
 TYMS 232  
 type III polyketide synthase 200

**U**

UDP-glucuronosyltransferase (UGT) 208  
 UGT1A1 233  
 ultra performance liquid chromatography (UPLC) 212  
 ultraviolet absorber 65  
 unapproved 214  
 uncertainty 215  
 uncertainty factors 240  
 Urushi wax 219  
 usage 92  
 UTP 249

**V**

vaccine 223, 287  
 Validation 295  
 validation study 280  
 vascular endothelial growth factor receptor 2 187  
 vegetable 225  
 VEGF 277  
 veterinary drug 283  
 vero toxin-producing *E. coli* 225  
 vertebra 244  
 VH 188  
 viable but non-culturable 222  
*Vibrio cholerae* 222  
*Vibrio parahaemolyticus* 226  
*Vibrio vulnificus* 286  
 vinylidene chloride 220  
 Vitaceae 200  
 vitamin D 212  
 Vitamins 229  
 VL 188  
 volatile organic compounds 72

**W**

water 258  
 water pepper extract 258  
 Water Quality Standard 209  
 water supply 1  
 wheat flour 287  
 workplace air 207  
 wrapping film 219

## Y

- Y-family DNA polymerases 264  
yolk sac 253
- 1321N1 human astrocytoma cells 251  
16-helix 228  
1-chlorobutane 220  
2,4-dinitrophenylhydrazine 207  
2,5,6-Tribromogramine 251  
2-ethylhexyl-p-methoxycinnamate 65  
2-Hydroxyadenine 270  
2-nitrophenylhydrazine derivative 186  
3-aminotriazole 260  
3-azido-3-deoxythymidine 268  
3Rs 295  
5-fluorouracil 264  
6-fucosyltransferase 192  
8-hydroxydeoxyguanosine 254, 255, 256, 269  
8-OHdG 254, 256  
 $\alpha$  229, 230  
 $\alpha 1$  192  
 $\alpha 3 \beta 1$  integrin 191, 192  
 $\alpha$ -disubstituted amino acid 229, 230  
 $\alpha$ -eleostearic acid 212  
 $\alpha$ -glucosidase 230  
 $\alpha$ -glucosidases 229  
 $\beta$ -Galactosidase. 188  
 $\beta$ -naphthoflavone (BNF) 208  
 $\beta$ -relaxation 189  
インフルエンザ 292  
グライコミクス 277  
ステム 277  
トロポミオシン 285  
パルプアルブミン 285  
ヒト絨毛性性腺刺激ホルモン 277  
ヘルスヴィジランス 292  
マイクロドーズ臨床試験 294  
メンブランフィルター 186  
リスクアセスメント 292  
遺伝子治療 277  
医薬品 293  
横紋筋融解症 293  
検査法 289  
高次構造 277  
国内状況 293  
細胞治療 277  
指針 295  
指標細菌 288  
実被害推定 292  
食品安全 292  
食品衛生 292  
食物アレルギー 285  
生菌数 288  
成分規格 288  
大腸菌 288  
大腸菌群 288  
探索的臨床試験 294  
腸管出血性大腸菌 289  
低血圧症 293  
貼付剤 186  
糖タンパク質 193, 277  
糖鎖プロファイリング 193  
動物実験 295  
日本薬理学会 295  
発売中止 293  
品質試験法 193  
販売量 292  
放出試験 186  
翻訳後修飾 277  
薬局 292  
薬物動態相互作用 293  
溶出試験器 186  
類似性 277