

国立医薬品食品衛生研究所報告第121号キーワード索引(アルファベット順)

A

a ring-modified analogues 254
 a twenty-eight-day repeated oral dose toxicity test 40
 a-chymotrypsin 261
 ABCB1 274
 ABCC2 274
 aberrant crypt foci 284
 absorbance 16
 accumulation of chromium and ferrum in organs 225
 acetal 254
 acetylacetone 16
 acetylation polymorphism 275
 Acetylcholine 211
 acid-stable carmine 240
 acrylamide 234, 306
 activin 212
 adenosine 299
 adenovirus vector 217, 218, 219, 220, 221, 222, 223, 303,
 320
 ADI 294
 adipate 298
 adverse reaction of medical drugs 1
 aerobic stress 242
 Affymetrix GeneChip 274
 agarwood 300
 Age 294
 Age group 294
 Age-related change 244
 aging 223
 agricultural irrigation 232
 Ah receptor 252
 air sampler 230
 airborne microorganisms 230
 AKAP350 269
 aldose reductase 295, 296
 alkaline digestion 235
 alkannin 261
 alkoxy silane 254
 alkylsulfonic acid phenyl ester 240
 allele-specific sequencing method 256
 Allelic variants 230, 231
 allergen 304, 308
 allergenicity 227, 303, 304
 allergic contact dermatitis 228, 304
 allergic substances 307, 308
 aloe 282
 alpha 254, 255
 alpha,alpha-disubstituted alpha-amino acid 253
 alpha-disubstituted alpha-amino acid 254, 254
 alpha-disubstituted amino acid 255
 alternative methods 316, 317

aluminum lake 51
 amino acid alteration 256, 266
 amino acid side chain 273
 aminophenylnorharman 228
 aminophenylnorhaman 214
 amiodarone 230, 274
 amyotrophic lateral sclerosis 269
 anaerobic and facultatively anaerobic bacteria 248
 analysis 305, 305
 ANCOVA 209
 Angelica Duhurica Root 299
 Angelica Radix 299
Anguilla japonica 217
 animal experiment 267
 animal waste 227
 anion exchange cartridge 239
 annexin β 213
 anomaly 316
 anti-cancer drug 277, 321
 anti-depressant 320
 Anti-factor IIa activity 217
 Anti-infective drugs 322
 anti-inflammatory effect 261
 anti-prion antibody 249
 antibacterial activity 255
 antibacterial agent 228, 310
 anticoccidial drug 236
 antiinflammatory effect 216
 antimicrobial activity 242
 antioxidant 251, 252, 253, 257, 283
 Antisense oligonucleotide 260
 antitumor steroid 246
 antitumor-promoting activity 214
 apolipoprotein B 262
 Apolipoprotein E 296
 apple syrup 240
 application 312
Aquilaria sinensis 300
Arachis repens 300
 Arf 269
 Arsenic 233
 arsenic species 231, 232
Artemisia capillaris 299
 Artepillin C 253
 aryl hydrocarbon receptor 235, 272
 Asparagi tuber 300
Asparagus cochinchinensis 300
 astrocyte 273, 313
 asymmetric synthesis 254
 ATP 259, 273, 313
 atrium 261
 authorization 54, 57, 59, 62, 65, 68, 71
 automatic counter 244

automation 305
avoidance of dichloromethane 298
aza-substitution 224

B

Bacopa monniera 214
bacteremia 295
bacteria 250
bacterial adhesion 250
Bacterial invasion 260
bacterial test 244
bakuchiol 240
Balb/c 3T3 A31-1-1 cells 226
basic fibroblast growth factor 226
benzene 272
benzo[a]pyrene 252
benzopyrene 224
benzyl isothiocyanate 284
beta-adrenergic receptor 224
bezafibrate 262
biliary metabolite 278
binding affinity 264
bio 322
bioburden 305
biocomparability 321
biocompatibility 229
biodegradable polymer 303
biodegradation 245
bioequivalence 209, 315
biological characteristics 245
biological/biotechnological products 321
biologics 302, 321
biomaterial 226
biosensor 270
biosynthesis 322
Biotechnology Products 303
bis(2-ethylhexyl) phthalate 309
bisphenol A 250, 279
Bisphenol A and sulfate 276
bisphenol A glucuronide 278
bithionol 231
Biwayo 214
bladder carcinogenesis 284
blood brain barrier 34
Bloom syndrome 289
Bond Elut[®] SAX 297
bottled food 298
bovine 249
bovine cerebral cortex homogenate 249
bread 239
bridging study 321
bromate 239
bromination 234
BSTFA 263
butylhydroxytoluene 285

BUUV assay 271
Byssochlamysol 246

C

C-ion 289
C-reactive protein 259
C3H/He strain 271
 Ca^{2+} 273, 274
 Ca^{2+} signaling 257
cacao liquor 285
calponin 218
CALUX assay 236
Campylobacter jejuni 242
Canarium album 300
cancer 220
canine mast cell 259
cap-sealing 298
capillarisin 299
capillary gas chromatography 237
carcinogenicity test 321
carcinogenicity 287
Cardiac muscle 211
cardiomyocytes 223
cardiomyopathy 223
Cardiovascular system 316
carminic acid 240
catechin 251, 252, 295
cause elucidation 304
CD14 247
CD31 225
CD63 258
CDC 309
cell cycle 249
cell density 249
cell differentiation 230
cell signaling 264
cell therapy 225, 303, 321
cell transformation 249
cell transformation assay 295
Cell-sorter 270
cellular prion protein 249
CFU 244
chemical evaluation 299
chemical safety 1
chemicals 314
chemicals in food 1
chemoprevention 282, 317
chemotaxis 259
Chicken embryos 278
Chinese olive 300
chiral cyclic alpha 255
chitosan 221
Chlamydomonas 255
chloranil 252
chloride channel 268

- cholecalciferol 65
 chondrogenesis 303
Chondroitin sulfate 217
 chromium concentration in urine 225
 chromium-iron ally 225
 chromone derivative 300
 chromosomal aberrations 288
 chromosomal instability 289
 chromosome territories (CTs) 291
 chromosome territory 319
 Chronic renal failure 295
 chronic toxicity 284
 cigarette smoke 282
 cinnamaldehyde 286
 citrus fruit 298
Cladosporium cladosporioides 246
 class 2 food allergy 304
 Class II beta-tubulin 286
 CLIC 269
 clinical pharmaco-kinetics 317
 clinical research coodinator 294
 clinical trial 320, 321
 clinical trial consultation 321
 clinical trials 294, 295
Cnidii Rhizoma 299
 coccoid forms 242
 CODEX 307, 311
 Cofilin 260
 collaborative validation 288
 colon 284
 colon cancer 279
 colon carcinoma 268
 colonic mutated crypt 267
 colony formation activity 226
 color reference standard 78, 81
Colostrum 243
 column switching 234
 combinatorial chemistry 253
 competitive ELISA 249
 complex pollutants 288
 Computer tomography 215
 Conformation analysis 231
 conformational search 254, 255
 conjugated fatty acids 280
connexin 43 226
 contact sensitization 228
 control group 295
 cosmetics 317
 creeping peanut 300
 cross-reactivity 227, 303, 304
Cry9C 258
C. sphaerospermum 246
 cultivation 300, 322
Curcuma spp. 322
 cyclophosphamide 289
CYP1A1/2 276
CYP1A2 282
CYP2A6 275
CYP2B6 231
CYP2C8 230, 256
CYP2D6 alleles 274
CYP3A4 275
CYP3A4 inhibition 215
 cytochrome 254
 cytochrome P-450 256
 Cytochrome P450 230
 cytoskeleton 269
 cytotoxicity 217, 229, 232, 288
 cytotoxicity test 229, 288
- D**
- daidzein 267
 daily intake 294, 305
 data protection 320
 data quality objectives 263
 database 264
 database system 314
 daycare centers 311
 decidual cell response 293
 defense-related protein 227
 Degradation 302
 degranulation 258
 DEHP 298
 delayer rectifier K⁺ current 261
 deletion 291
 deletion mutation 290
 dendritic cells 220
 dental Au-Ag-Pd casting alloy 229
 derivative 263
Dermatan sulfate 217
Desethylamiodarone 230
 Design and Synthesis 253
 design of experiment 267
 detection 309
 detection method 238, 307, 308
 detection technique 238
Dextran sulfate 268
 di(2-ethylhexyl) phthalate 241, 297
 di-n-butyl phthalate 212
 diabetic retinopathy 296
 dibutyl phthalate 293
 dibutyltin chloride 293
 dichlorofen 231
 dichlorvos 233
 diclazuril 236
 diethyleneglycol dibenzoate 240
 diisonyl phthalate 241, 309
dinB 319
 DINP 315
 diol 254
Dioscorea bulbifera L. 214

dioxin 252
 dioxin distribution 236
 dioxin-like PCB 235
 dioxins 235, 236
 diphenyltin 293
 dipropylene glycol dibenzoate 240
 disinfectant by-product 294
 disinfection 244, 305
 disposable glove 241
 dissolution test 208, 209, 239, 315
 DNA adducts 214
 DNA analysis 286
 DNA Chip 317
 DNA methyltransferase 312
 DNA microarray 257, 276
 DNA polymerase epsilon 223
 DNA polymerase IV 319
 Dose-response 294
 dose-response relationship 295
 double strand breaks (DSBs) 289
 double-strand break (DSB) 318
 Downturn 294
 drag resistance 310
 dropping microorganisms 230
 drug 264
 drug component 239
 drug delivery 34
 Drug Delivery System 303
 drug evaluation 320
 Drug Information 314
 drug interaction 317
 drug metabolism 256
 drug responsiveness 277
 duct 268
 duplicate diet sample 298
 Dwelling environment 245

E

E. coli K-12 250
E. coli O157 247
E. coli O157:H7 242
 E_{TA} endothelin receptor 261
 E5 guideline 321
 E11 guideline 321
 economic loss 242
 effect on human 316
 eggs 310
 electrochemical detection 216, 264
 Electron-beam irradiation 248
 ELSI (ethical, legal and social issues) 319, 320
 Embryonic expression 286
 Embryotoxicity 277
 end-joining (EJ) 318
 endocrine disruptor 264, 267, 270, 283, 285, 316
 endothelial cell 225

endotoxin 227
 enhanced OECD guideline 283, 285
 enhancement of chondral differentiation 226
 enterohepatic circulation 278
 enterotoxin 309
 ENU 287
 environ-mental water 288
 enzyme activities 265
 epidemiology 319
 epithelialization 270
 ergocalciferol 71
Eriobotrya japonica 214
 erroneous incorporation 290
 Erythrocyte 296
 erythropoietin 210, 211
Escherichia coli O26 248
 essential oil 322
 estrogen 278, 292
 estrogen receptor 270, 278
 Estrogenicity 276
 estrogens 274
 estrone 62
 ethoxyquin 233
 ethylene glycol 315
 evolutionary considerations 291
 excretion 279
 explanation of toxicology 321
 exposure 241

F

F344 rat 284
 fabric product 228
 FDA 309
 fecal steroid excretion 297
 female rat 279
 fenbendazole 280
 ferrous sulfate 226
 fertilizer 12
 ferulic acid 299
 fetal window 316
 fiber 219
 fish 235, 236, 306
 flagella antigen 244
 flavianic acid 78
 flavonoid glycoside 214
 flavonol glycoside 214
 Flow cytometry 267
 fluorescent determination 295
 fluoropyrimidines 275
 Fluorovitamin D 231
 follistatin 212
 food 298, 306
 food additive 294, 305, 306
 food allergy 307, 308
 food borne outbreak investigation 310

food color 51, 268
 food contaminant 309
 food flavoring 305, 306
 Food Green No.3 213
 food microorganisms 1
 food poisoning 309, 310
 food samples 232
 food simulant 297
 Food Standards Agency 305
 food tar colors 297
 food terrorism 311
 food-borne diseases 309
 foods 235
 forage 310
 forestomach carcinogenesis 283
 forestomach tumor 281
 formaldehyde 16, 294
 Forward Genetics 316
 frame-shift 256
 freeze-drying 208
 fullerene 255
 FUMI theory 236, 264
 function 256
 fungal growth 245
 Fungal identification 245
 fungal inactivation 244
 fungal load 246
 fungi 245
 furanocoumarin 215

G

G-CSF 224, 303
 gallic acid 297
 gamma ray irradiation 248
 gamma-ray sterilization 305
 gap junctional intercellular communication 225, 226, 229,
 305
 gardenia blue 240
 GC/MS 234, 263, 298, 299
 Gene expression profiling 286
 gene regulation 221
 gene therapy 218, 219, 220, 221, 222, 302, 303, 320
 generic drugs 322
 genetic polymorphism 265, 274
 genetic polymorphisms of drug-metabolizing enzymes and
 drug transporters 277
 genetically modified 238
 genetically modified foods 307, 308
 genetically modified maize 237, 238
 genetically modified potato 238
 genetically modified soybean 213, 237, 238, 239
 genetically modified soybean 213
 genetics 310
 genistein 285
 genistin 267

genome cohort study 319
 genome rearrangements 292
 genomic instability 318
 genotoxic carcinogens 281
 genotoxic stress 268
 genotoxicity 318
 gentamicin 307
 germ-free mice 243
 Global Assessment 316
 glucocorticoid receptor 256
 Glutathione-S-transferase class Omega 233
 glycerol 281
 glychyrrhizin 216
 glycopeptide mapping 211
 glycoprotein 211
 glycosylation 312
 glycyrrhizin 261
 glycyrrhizic acid 54
 glyphosate 239
 GM corns 258
 GMP 322
 gold sodium thiosulfate 228
 Golgi apparatus 269
 gonadal toxicities 287
gpt delta 290
gpt delta rat 290
gpt delta transgenic mice 291
 granulation tissue 261
 grape seed extract 297
 grape seed polyphenol 297
 grapefruit juice 215
 Graves' disease 218
 green hairy roots 300
 green tea catechins 280
 ground cover 300
 Groundwater arsenic contamination 232
 growth hormone 302
 guideline 302, 317

H

HACCP 311
 haematopoietic cell 269
 harvest time 299
 headspace gas chromatography 240
 health and ecological risk 262
 health information 320
 heart 261
 heart failure 224
 heavy metal 255
 heavy-ion exposure 291
 heavy-ion radiation 291
 helical screw sense 255
 hematopoiesis 289
 hematotoxicity 272
 heme axial ligand 254

Heparin 296
 hepatic lesions 283
 hepatocarcinogenesis 280
 hepatocellular tumor 281
 hepatocyte growth factor 223
 hepatotoxicity 40
 Hereditary vitamin D-resistant rickets 254
 heterocyclic amine 317
 HGF 210
 HGF synthesis 212
 high performance liquid chromatography 295
 high-affinity receptor for IgE 258
 High-resolution ICP-MS 239
 hippocampal slice culture 274
 hippocampus 259, 273
 histamine release 257
 Histone deacetylase 223
 HIV 242
 hokoshi extract 240
 homologous recombination (HR) 318
 hospital food 299
 household hygiene 244
 household product 304
 HPLC 16, 48, 236, 237, 264, 297, 298
 HPLC-ICP/MS 231
 HPRT mutation 289
 HTHQ 279, 281
 human IgE 258
 human osteoblast 305
 human S9 224
 human sIgA 250
 human subject 319
 hyaluronate 30
 hyaluronic acid 226
 hydrocarbon detection method 237
 hydrodynamic flow 208
 hygiene 311
 hypercholesterolemic 297
 hypertrophic cardiomyopathy 223

I

ICH 316, 320, 321, 322
 ICH guideline 295
 ICP-MS 239
 identification 305
 IgE 228
 IL-6 313
 IL-8 244
 immune functions mouse 267
 immune system 258
 immunoblotting 249
 immunohistochemistry 268
 implantation failure 293
 implementation working group 321
 impurity profile 322

inactivation 227
 incomplete food allergen 303
 indirubin 263
 indoor air 245
 Indoor environment 246
 industrial chemicals 288
 infant 320
 infant susceptibility 266
 information system 1
 inhibin β chain 212
 insulin 218
 intake 298
 integrated risk assessment 262
 integration 262, 263
 Inter-laboratory validation 237
 inter-racial difference 265
 internal transcribed spacer region 215
 international organizations 311
 international trend 317
 Internet 314
 interphase cell nucleus 319
 intestinal carcinogenesis 280
 Intestinal flora 310
 intraepithelial lymphocytes (IEL) 243, 244
 Intron 276
in vivo assay 285
 IR 81
 Irinotecan 233
 iron lactate 287
 iron-chromium alloy 228
 irradiated food detection 237
 irradiated foods 307
 Irradiation simulation 215
 ischemia 261
 isoflavone 213
 isoform 302
 isolation 248
 ITS1 region 245

J

JAK/STAT 217
 Japanese 257
 Japanese Pharmaceutical Affairs Law 25
 Japanese Pharmacopeia 315
 Japanese Pharmacopoeia 309
 josamycin 284
 JP reference standard 65, 68, 71

K

Kinetic analysis 233
 knee brace pad 228
 kooroo color 268

L

L-type calcium channel motoneuron 269
 labeling 307, 308
 lactational exposure 251
 lactic acid bacteria 310
Lactococcus lactis 242
 latex allergy 227
 laver 48
 LC/APCI-MS 216
 LC/MS 210, 211, 234, 239, 298
 LEC rat 283
 legislative regulation 304
 leptin 217
 limit of detection 264
 linear-non-linear dose response relationship 316
 Linkage disequilibrium 276
 lipid A 246, 247, 311
 lipopolysaccharide 247
 Lipoprotein lipase 296
Listeria monocytogenes 243, 309
Listeria 247
Listeria infection 251
 liver 281
 LOH 289
 lopid 297
 losartan 265
 lotion 25
 low dose 316
 lung caner 286
 lung tumors 281
 lyophilization 209
 lyophilized formulation 209
 lysozyme 76
 Lysozyme Reference Standard 76

M

macrophage 260, 301
 magic mushroom 215
 male reproductive system 293
Mallotus philippensis 301
 mammary carcinogenesis 317
 mammary tumors 280, 287
 mandatory labeling system 213
 marine pollution 289
 marker compound 300
 Market basket method 294
 mass spectrometric detection 237
 mast cells 257
 maximization test 227
 maximum contrast method 295
 MD-2 246, 311, 312
 MDM2 268
 medical information 320
 medical records 319
 medical writing 321

medicinal plants 322
 medium 248
 Mega Bond Elut SAX 298
 MeIQx 280, 282
 membrane filter 239
 mercury 306
 Mesp2 270
 metabolic activation 256
 metabolic cooperation assay 225
 metabolism 297
 metal allergy 228
 Metals 232
 Methacarn 286
 Methionine 277
 method 322
 method-performance study 233
 methoxychlor 280, 287
 methylating capacity 232
 methylpyrrolidone 315
 mice 286
Michelia alba 300
 microbiological limit test 309
 microbiological risk analysis 311
 microbiological risk assessment 309, 310, 311
 microbiological tests 309
 microbore column 211
 microchip electrophoresis 216
 Microdissection 286
 microglia 313
 micronucleus assay 288, 289
 microorganisms 243, 244, 311
 microsomal epoxide hydrolase 257
 midbrain cells 230
 migration 297, 298
 mitomycin C 290
 Mobility 209
 moccoglia 313
 molecular biology 310
 molecular mobility 209, 302
 molecular orbital calculation 254
 molecular-targeting drug 321
 monkeys 279
 monnieraside I 214
 monobutyl phthalate 293
 Monoclonal antibody 286
 morphogenesis and hormonal receptor 316
 mouse colon epithelial cells 288
 multi-angle laser light scattering 30
 multi-layer silica gel column chromatography 235
 multifunctional column 237
 multipurpose solution 225
 multivalent cation block 274
 mutagenicity 322
 mutagenic heterocyclic amine 214
 mutagenicity test 303
 mutation 223

mutation study 242

N

N-ethyl-N-nitrosourea 281
 N-glycan 262
 N-linked oligosaccharides 211
 N-methylcarbamate pesticide 298
 NaCl 243
 nano technology 312
 naphthoflavone 276
 national hospitals 294
 natural biomaterials 227
 natural food additive 240, 306
 natural sweetener 240
 NDA 320
 neomycin 307
 neuroimmunity 258
 neuron-to-astrocyte communication 273
 neuronal survival 274
 Neuropeptide Y 261
 Neuron-to-glia communication 273
 neutrophils 250
 new drug 312
 new drug application 321
 new method 305
 newborn toxicity 266
 Newleaf Y potato 238
 NFκB 250
 nicarbazin 236
 NIH Reference Standard 54, 57, 59, 62, 74, 76
 nitric oxide 216, 301
 nitrile-butadiene rubber 241
 nitrile-butadiene rubber gloves 241
 nitrogen compounds 245
 NMR 209
 NMR relaxation time 209
 nomenclature 312
 non-clinical study 321
 non-clinical test 320
 Non-genotoxic hepatocarcinogenesis 286
 non-specific defense 250
 non-viral vector 217
 Nonsynonymous single nucleotide polymorphism 275
 Nonylphenol 278
 normal human osteoblasts 229
 nortified detection method 308
 Novel CYP2D6 SNP 276
 novel reference molecules 238
 novel SNP 256, 266
 NP95 249
 NR1I2 (PXR/SXR) 266
 NS0 cell 210
 nuclear architecture 319
 nuclear localization signal 221
 Nuclear magnetic resonance 296

O

OECD 317
 official analytical method 304
 official inspection 51
 OH radical 232
 Oleic acid 245
 oligopeptide 254, 255
 oltipraz 283
 omeprazole 276
 opium alkaloid 12
 Opium inhalation 216
 orange book 209
 organic anion transporter 274
 organotin compound 262
 osteoblasts 305
 outbreak 242
 Ovalbumin 217
 oxidative stress 271
 oxidized DNA 290

P

P2X receptor 273
 P2X₂ receptor 274
 P2X3 259
 p51B (TAp63alpha) 268
 p53 289, 318
 p53 deficient CBA mice 280
 p53-deficient hemopoietic stem cells 270, 271
 p53-deficient mice 287
 p53 knockout 291
 p70 S6 kinase 224, 303
 p-hydroxybenzoic acid esters (PHBA-Es) 48
 paeniflorin 59
 Pain 259
 pancreatic carcinogenesis 282
Papaver somniferum L. opium yield 12
 papc 270
 paraben 25
 parliamentary control 319
 parliamentary discussion 320
 PCDD 235
 PCI sampler 245
 PCR 238
 PDDF 235
 peanuts 237
 pediatrics 321
 Penicillium 245
 peroxisome proliferator 212
 pesticide 234
 phage 221
 Pharmaceutical 302
 Pharmacogenetics 277
 Pharmacogenomics 277

pharmacokinetics 265
 Phenol sulfotransferase 276
 phenoxyethanol 25
 phenylethanoid glycoside 214
 PhIP 285
 phosphatidylcholine 262
 phosphatidylinositol 3-kinase 224, 303
 phospholamban promoter 223
 photosensitivity 255
 photostability 297
 photosynthetic activity 300
 phthalate 241, 298
 Phthalate Esters 315
 physicochemical properties 246
 phytoestrogen 267
 PI3 kinase 260
 pituitary 292
 planar C5 conformation 253
 plastic eyeglass frame 304
 plasticizer 241, 298
 plastid 300
 poly(L-lactide) 305
 polyethylene 305
 polymer microspheres 229
 Polymorphism 233
 polyphosphate 255
 polypropylene 305
 polyvinyl chloride 241, 297, 298
 poor metabolizer 265
 post column reaction 239
 post-sequencing era 319
 post-sequencing genome research 320
 potassium bromate 318
 potency 74
 PPAR γ 212
 PPARgamma 220
 precision 264
 preimplantation embryonic loss 293
 preparation 299
 preservative 25
 prion protein 249
 proanthocyanidins 297
 process control 322
 production 51
 progesterone 293
 prohibited ingredients in cosmetics 231
 prooxidant 252
 propolis 253
 Prostaglandin 211
 protection 259
 protein 297
 protein formulation 208
 protein phosphatase 224
 proteome analysis 213
 PrP 249
 pseudojujubogenin 214

psilocin 215
Psoralea corylifolia 287
 public health 309, 310

Q

Q3B(R) 322
 QSAR 264
 quality 303, 312, 321
 quality evaluation 54, 57, 59, 62, 65, 68, 71
 quantification 249
 quantitation 238
 quinone 252

R

Radiation induced myelogenous leukemia 270, 271
 radical 251, 252
 rasH2 mice 280, 281, 285
 rat 40, 279, 280, 284, 287, 297
 Reactive oxygen species 318
 real-time PCR 237, 238
 Receptor binding 278
 receptor structure 264
 recombinant 310
 recombinant DNA 238
 recombinant prion protein 249
 reevaluation of drug quality 209
 regional variation 243, 244
 regulation 16, 218
 regulatory guidance 321
 regulatory science 320, 322
 rel 243
 renal failure 265
 restriction-modification 292
 restriction endonuclease 312
 resveratrol 229, 304
 retinoid 276
 retinoid synergist 276
 Reverse Genetics 316
 Rho 269
 risk assessment 262, 263, 294, 303, 305, 309, 310, 314, 320
 risk management 305, 311
 routine control 305
 rubusoside 240
Rubus suavissimus S. LEE 240

S

S-421 40
 safety 306
 safety assessment 317
 safety information 1, 314
 salicylic acid tablet 208
Salmonella 244, 247
Salmonella Enteritidis 247, 310

- SAM 312
sanitization 305
SAP18 223
saponin 214
sarcoplasmic reticulum 223
scFv 34
secretion 262
segmentation 270
Selenium 277
selfish mobile genetic element 292
Sep-Pak® Plus Alumina N 297
sequence homology 245
Sequencing 274
Serial bone marrow transplant 271
Serum protein binding 294
sesquiterpene lactone 300
shelf-life 209
Shell egg 247
Shichimotus-koka-to 260
shikimate-3-phosphate 239
shikonin 261
sialyloligosaccharides 250
sialyoligosaccharide-conjugated peptide 250
silylation 263
single molecular manipulation 312
single nucleotide polymorphism 256, 257
sister chromatid exchanges 228, 304
site-directed mutagenesis 273, 274
size-exclusion chromatography 30
skin 256
skin damage 304
small hepatocytes 213
SNP 264
Sodium *o*-phenylphenate 286
sodium nitrite 283
Soils 232
Solar irradiation 244
Solvent Orange 60 304
somitogenesis 270
soya saponin 213
spectinomycin 307
Sphingomyelin 296
Splenocyte 217
stability 209, 302
stabilization 208
standard 242
standard addition method 240
standard compounds 234
Staphylococcus aureus 309
steam distillation 322
stem cell 269
stem cell differentiation 270, 271
sterility assurance 305
sterilization 305
Sterilization method 215
STM 312
- Storage condition 247
stress compounds 299
stretched film 297
stroke 260
Stroke-prone spontaneously hypertensive rat 260
structural determination 213
structure 302
styrenated phenol 241
subsidiary color 213
substance P 258
sugar-mapping 210
sulfation polymorphism 275
sulfonylurea herbicide 297
sulfuric acid treatment 235
Supelclean ENVI-Carb 298
superoxide 252
Suppression PCR subtractive hybridization 286
supramolecule 312
surface modification 230
Surface plasmon resonance 278
surveillance 295, 309
survey 298, 307
sympathetic neurotransmission 261
synergist of pyrethroid 40
synergy and/or additive relationship 316
system suitability test 236

T

- T7 RNA polymerase 219
T98G cell 249
tannase 297
tannic acid 297
tar color 51
targeting 222
TAT peptide 34
taurin 250
taxonomy 246
TCDD 251
TDI 315
temperature and RH 246
terpenoid 322
test method 309
testis 212, 270
Testosterone 6 β -hydroxylation 275
tetrahydrofuran 315
thiamine hydrochloride 57
thin layer chromatography 78, 81
thioredoxin 271
thiourea-type accelerator 228
threshold 281, 316
thrombin 74
thrombomodulin 211
Thymidine phosphorylase 275
Thymus 267
thyroid toxicity 278

tissue reaction 228
 Titanium dioxide 232
 TNF- α 313
 TNFalpha 220
 tocopherol acetate 68
 Tofu 213
 Toll-like receptor 4 246, 247, 311, 312
 topical application 261
 topically applied 216
 toxicity 270, 306
 toxicity study 316
 toxicokinetics 279
 toxicological test 322
 toxin 250
 toy 241
 TPA 212
 transcriptional regulatory elements 222
 transfection efficiency 217
 Transferrin 239
 transforming growth factor- α (TGF- α) 292
 transgenic assays 318
 transgenic mice 271
 transgenic mice *gpt* delta 291
 Transitional milk 243
 translational research 302
 trichlorfon 233
Trichophyton verrucosum 245
 tricresyl phosphate 241
 triglycerides 297
 tripartitesynapse 313
Trypanosoma cruzi 300
 TSE agent 227
 tube 297
 tubewell water 231
 tumor promoters 249
 tumorigenesis 226, 285

U

UDP-glucuronosyltransferase 1A1 233
 UDP-glucuronosyltransferase 1A10 233
 UGT1A10 256
 UJNR 309
 UK Biobank 320
 ulcerative colitis 267, 268
 unauthorized GM crops 238
 undergroundwater 232
 urease test 245
 Urinary bladder carcinogenicity 286
 Urinary excretion of opiates 216
 urine 231
 urothelial cancer 275
 US FDA 311
 USDA 309
 useful plants 322
 USP calibrator 208

uterine carcinogenesis 280
 uterine tumor 281
 uterus 287
 UVA and UV 244

V

vaccine 242, 310, 322
 validation 237
 validation study 294, 305
 Valproic acid 294
 Vanadium 239
 vanillin-hydrochloric acid assay 297
 vegetables 236
Vibrio parahaemolyticus 311
 vitamin D receptor (VDR) 254
 Vitamin D receptor. 231
 vitamin E 251
 VLDL 262
 VSD 286

W

water 209
 wear debris 305
Wedelia trilobata 300
 Werner syndrome 289
 West Bengal 231
 whale 306
 WHO 311
 WHO/IPCS 316
 wound dressings 227

X

X-ray exposure 289
 Xenopus oocyte 273

Y

Y-family DNA polymerase 290, 318, 319
 yield component 12

Z

Zea mays 238
 Zingiberaceae 322

1,4-dione-2,5-bis(1,1-dimethylpropyl)cyclohexadiene 241
 17alpha-methyltestosterone 283
 1alpha,25-dihydroxy-19-norvitamin D3 Analogues 253
 2,4,6-tris(1,1,3,3-tetramethylbutyl)phenol 241
 2-Mercapto-methylbenzimidazole 278
 2-Mercaptobenzimidazole 278
 2-nitro-p-cresol 279

- 3-aminophenol 266
3-deoxyglucosone 295
3-methylphenol 266
 3_{10} -helix 255
 3_{10} -helical structure 253
3D-FISH (three-dimensional fluorescence *in situ* hybridization) 291
4-hydroxy group 304
4-hydroxy group of stilbene 229
5-enolpyruvylshikimate-3-phosphate synthase 239
6,7-dimethyl-esculetin 299
6-thioguanine selection 290
7-Ethoxy-4-trifluoromethylcoumarin O-deethylation 231
8-hydroxydeoxy-guanosine 318
90-day toxicity study 268
 α B-Crystallin 261
 γ -ray irradiation 305
アロディニア 313
インターネット 264
カキ 312
カリブレータ 315
スクリーニング試験 316
バニロイド受容体 259
フタル酸エステルの毒性評価 315
ミクログリア 313
リスク 313
リスクアナリシス 314
レギュラトリ・サイエンス 313
炎症 313
欧州食品安全庁 263
化学物質のリスクアセスメント 315
化学物質安全関連規制 313
癌原物質 277
危機管理分子 313
狂牛病 (BSE) 314
個別化薬物療法 277
広域食中毒 312
抗癌剤 277
国際化学物質安全性計画 (IPCS) 264
残留溶媒の基準値 315
消費者製品 263
詳細試験 316
情報検索 264
食の安全管理 314
食品のリスクアナリシス 263
食品安全委員会 314
食糧輸入 314
神経因性疼痛 313
神経機能 313
製造物責任法 263
赤痢 312
適格性評価 315
電気生理 259
統合的リスク評価 263
透明性 263
透明性と批判的検討 314
内分泌かく乱化学物質 316
発がんリスク 277
皮膚 259
表示 263, 314
品質保証 314
不確実性分析 263
米国食品医薬品庁 263
慢性疼痛 313
薬物代謝酵素遺伝子多型 277
薬物代謝多型 277
溶出試験 315
利害関係者 314