

## SUBJECT INDEX

### A

Abalone, 378  
Acid treatment bath, 339  
Ago river, 332  
Agriculture, 388  
Agriculture, 72  
*Agrobacterium tumefaciens*, 353, 363  
Albino plants, 375  
Albino, 357  
Algorithms, 328  
Allozyme marker, 347  
Anti-dengue IgM, 254  
Amyloidosis, 263  
Analgesic, 197  
Anthelmintic, 197  
Anther culture, 375  
Antibodies, 254  
Antidiabetic, 338  
Antifeedant, 372  
Antigen, 354  
Anti-lexicographic ordering, 328  
Antimutagenic, 197  
Antioxidant responses, 216  
Aphididae, 367  
*Apis dorsala*, 369  
*Apogon thermalis*, 345  
Aquaculture, 120  
*Artemia salina*, 382  
Ateneo, 340  
Atyid shrimps, 341  
Avidin-biotin complex, 386

### B

*Bacillus cereus*, 376  
*Bacillus subtilis*, 339  
Bacillus, 352  
Bacterial wilt, 364  
Banana bunchytop virus, 287  
Banana powder, 375  
Banana, 287  
Banana, 368

Banana, 72  
Bathymetry, 333, 334  
BBTV, 287  
Beetle, 350  
Benguet farmers, 388  
Benguet, 368  
 $\beta$ -glucanase, 348  
Binary vectors, 353  
Binding profile, 385  
Biocontrol agents, 364  
Biodiversity, 340  
Biodiversity, 344, 345  
Bio-ecology, 368  
Bioremediation, 356  
Biosafety, 60  
Biota, 345  
Biotechnology, 60, 148  
Bleomycin, 318  
Blue green algae, 351  
BOD, 339  
BOD, 377  
Bolls, 367  
Bose-Mesner algebra, 155  
Bosoboso river, 201  
Breast cancer, 3886  
Breeding, 292  
Bulacan, 335  
Bulb rot, 364

### C

Cadmium, 356  
Calorific value, 375  
Carcinoma, 386  
Carcinomas, 354  
Cardioactive toxin, 227  
*Caridina gracilostriis*, 341  
Carrying capacity, 1  
Catanduanes, 345, 385  
Cattle, 263  
*Caulerpa lentilifera*, 379  
Cavite Split, 333

cDNA library, 185  
 CDR grafting, 354  
 Centralizer algebra, 155  
 Cereals, 348  
 Cervical carcinoma, 385  
*Chanos chanos*, 357  
 Chemical oxygen demand, 201  
 Chromatid, 318  
 Chromosome breaks, 318  
 Chrysomelid beetle, 365  
 Chrysomellid beetle, 368  
 Ciguatera, 227  
 Circulant networks, 166  
 Cladocerans, 341  
 Clay, 336  
 CNS development, 355  
 Coastal areas, 120  
 Coastal stability, 332  
 Coat color, 357  
 Coccinellidae, 370  
 Cocogro, 375  
 Coconut, 375  
 Coconut, 72  
 Cocoon, 373  
 COD, 377  
*Coleu amboniticus*, 372  
 Common variance matrix, 331  
 Concanavalin A, 386  
 Connected, 166  
 Conservation management, 344  
 Control, 365  
 Copepods, 341  
 Copper, 201  
 Cordillera, 368  
 Corn, 1, 72  
 Corn, 365  
 Coset product, 329  
 Cotton, 367  
 Cranial ganglia, 355  
 Creativity, 388  
 Critical thinking, 388  
 Crop improvement, 353  
 Crop protection, 148  
 Crops, 72  
 Crustaceans, 341  
 Cyanobacteria, 351  
 Cyclic blocks, 330  
 Cyto b, 343  
 Cytochrome b, 3498

## D

Database, 358  
 Decomposition, 166  
 Demographics, 1  
 Dengue fever, 254  
 Dengue hemorrhagic fever, 254  
 Dengue virus, 254  
 Differential lysis, 381  
 Digital analysis, 263  
 Dinoflagellate, 341  
 Direct seeding, 292  
 Direct-seeding, 361  
 Diseased leaf area, 362  
 Distribution, 344  
 Diversity, 372  
 DNA analysis, 354  
 DNA hybridization, 353  
 DNA sequence, 365  
 DNA typing, 381  
 Documentation, 358

## E

Earthen wares, 336  
 Earthworms, 365  
*Echinochloa colona*, 367  
 Edge-preserving, 166  
 Education, 388  
 Electrolytic leakage, 216  
 Electrophoresis, 351  
 ELISA, 384  
 Emergence, 361  
 Encephalitis, 244  
 Endemic, 340  
 Endemic, 348  
 Engrailed, 350  
 Environmental pressures, 344  
*Escherichia coli*, 339  
 Euclidean norm, 331  
 Evolution, 348  
 Extracellular enzymes, 352

## F

F1 hybrids, 373  
 Factor analysis, 331  
 Fatty change, 263  
 Feed conversion ratio, 378  
 Feldspar, 336  
 Fermentation, 376  
 Filamentous, 351

- Finite loops, 330  
 Fish poisoning, 227  
 Fish, 344  
 Fishery, 120  
 Fishpond, 379  
 Floods, 335  
 Fluaazifop-butyl, 367  
 Folklore medicine, 338  
 Food production, 1, 72  
 Food safety, 60  
 Food security, 130  
 Foraging, 372  
 Fragile site, 318  
 Frequency, 373
- G**
- Gene family, 348  
 Gene orthology, 348  
 Genetic analysis, 365  
 Genetic diversity, 359, 360  
 Genetic engineering, 353, 363  
 Genetic variation, 283  
 Genetically engineered organisms, 60  
 Genetically modified organisms, 60  
 Geomorphologic indicators, 332  
 Germplasm, 358, 359  
 Giant clams, 347,  
 Giant wild honeybee, 369  
*Gliricidia sepium*, 372  
 Global competitiveness, 72  
*Glycine max*, 185  
 Gonadosomatic index, 345  
 Graph isomorphism, 166  
 Green revolution, 130  
 Groundwater withdrawal, 335  
 Group algebra, 155  
 Growth rate, 216
- H**
- Haliotis asinina*, 378  
 Hanging parrot, 349  
 HCV genotypes, 384  
 Head and neck cancer, 318  
 Hecke algebra, 155  
     Heparin-sepharose chromatography, 185  
 Hepatic dystrophy, 263  
 Hepatitis C, 384  
 Heterosis, 359, 360  
 Hierarchical, 166  
 Hispinae, 368  
 Hispondonta, 368  
 Histology, 345
- Histopathology, 357  
 Honey, 369  
 Honeybees, 369  
 Human blood, 354  
 Hunchback, 350  
 Hybrid rice, 292, 360  
 Hydroperoxides, 337  
 Hydropic degeneration, 263  
 Hypoglycemic, 338
- I**
- Ichthyosarcotoxism, 227  
 ICR, 357  
 Ifugao Rice Terraces, 365  
 IgM-capture ELISA, 254  
*Illeis sp.*, 370  
 Ilocos Norte, 377  
 Incidence, 365  
 Influence function, 331  
 Inland waters, 278  
 Inoculum, 376  
 Insect pests, 148  
 Insect pollinator, 373  
 Integrated pest management, 148  
 Intestine, 357  
 Invertible loop, 329  
 Ion channel activator, 227  
 Iron, 201
- J**
- Japanese encephalitis virus, 244
- K**
- Kalayaan, 347  
 Klein blocks, 330  
 Knockout mouse, 355
- L**
- Laguna de Bay, 334  
 Lake management, 278  
 Lake surface area, 334  
 Lakes, 278  
 Land uses, 377  
 Latin square, 330  
 Lato, 379  
 Leachate, 201.  
 Lectin, 386  
 Lingayen Gulf, 332  
 Lipid peroxidation, 216  
 Liver, 263  
 Local extinction, 340  
*Locusta migratoria*, 370, 372

Loop power associative, 330  
Luzon, 370  
Lymphocytes, 318

## M

Macrofauna, 345  
Macrosiphum, 367  
Maitotoxin, 227  
Malignancy, 386  
Management strategies, 278  
Mangal community, 345  
Mango, 72  
Mangrove, 345, 389  
Manila Bay, 333  
Mapping, 350  
Maximum likelihood, 331  
Melanin, 345  
Melanin, 357  
Meloidogyne graminicola, 365  
Mentha cordifolia, 197  
Metaldehyde, 357  
Metameric pattern, 355  
Methionine-rich proteins, 185  
Microalgae, 356  
Micrococcus sp., 382  
Microsatellite DNA, 383  
Migratory locust, 370  
Migratory, 344  
Mindanao, 370  
Mitochondrial DNA, 343  
Modern biotechnology, 60  
Modernization, 72  
Molecular clock, 348  
Molecular cloning, 287  
Molecular markers, 292, 362  
Molluscids, 357  
Monoclonal antibody, 354  
Monolepta sp.  
Morbidity, 244  
Moufang loop, 329  
MRPs, 185  
Mt. Pinatubo eruption, 345  
Mulch, 364  
Mutagen, 318  
Mycobacterial genome, 283  
*Mycobacterium tuberculosis*, 383

## N

Nauplii, 341  
NCBP, 69  
Nearshore, 332  
Nectar, 373

Neoglycoprotein, 385  
Neritidae, 345  
Neurotoxin, 227  
Neutral protease, 352  
NMR, 339  
N-myc, 355  
Novel foods, 60  
N-terminus, 185  
Numanized antibody, 354

## O

Offshore, 332  
Oncogene, 318  
Onion, 365  
Oocyte, 345  
Orderings, 328  
*Oreochromis mossambicus*, 376  
Oryza sativa, 216  
Osmotic adaptation, 351  
Ovary, 345  
Overfishing, 120  
Oxidants, 337  
Oxidative stress, 216

## P

P53 gene, 386  
Palawan, 370  
Pampanga delta, 335  
Pampanga, 335  
Pansipit River, 344  
Papillary carcinoma, 386  
Paralytic shellfish poisoning,  
Pasig Delta, 333  
Pathogens, 148  
PCR, 287  
PCR, 349  
PCR, 350, 353, 354  
PCR, 383  
*Pediococcus pentosaceus*, 376  
Permutation character, 155  
Peroxidase, 216  
Peroxyinitrite, 337  
Pest, 365  
Pesticides, 14  
Pesudogroup, 329  
Philippines, 1, 72  
Phosphate metabolism, 339  
Phylogenetic analysis, 343  
Physical characteristics, 374  
Pinatubo eruption, 335  
Pink root, 364  
Pollution load, 201

- Pollution, 120  
 Polymerase chain reaction, 185  
 Polymerase chain reaction, 287  
 Population genetics, 347  
 Population, 1  
 Population, 383  
 Porcelain, 336  
 Prevention, 244  
 Primers, 352  
 Processing, 375  
 Production, 72, 120  
 Protease gene, 353  
 Protein damage, 337  
 Protein peroxidation, 337  
 Protein, 337  
 Pseudogroups, 330  
 Pseudo-lexicographic ordering, 328  
 Psyllborini, 370
- Q**
- Quasigroup, 330
- R**
- 16S r RNA, 349  
 Rabbitfish, 227  
 Recombinant, 354  
 Recursively decomposed, 166  
 reforestation, 389  
 Regeneration, 375  
 Repellent, 372  
 Representation, 155  
 Resistance, 362  
 Reverse transcription polymerase  
   chain reaction, 254  
 Rice, 1, 72, 130, 216, 292, 353, 361, 362, 363,  
   365, 375  
 River pollution, 201  
 Root-knot, 365  
 Rorifers, 341  
 Rotation crops, 364  
 RT-PCR, 384
- S**
- S. fimbriata*, 343  
*S. longiceps*, 343  
 Salinity, 361  
 Salinization, 351  
 Salt stress, 216  
 Salt-tolerance, 351  
 Salt-tolerant, 361  
 Saltwater intrusion, 335  
 San Mateo landfill, 201  
 Sand dunes, 377  
*Sardinella tawilis*, 343  
 Sardines, 343  
 Scale, 331  
 Scale-invariant, 331  
 Sea level rise, 335  
 Seasonality, 344  
 Seaweeds, 379  
 Sediment dispersal, 333  
 Sediment movement, 332  
 Sedimentation, 333, 334  
 Seed cotton, 367  
 Seedling damping off, 364  
 Seedling vigor, 361  
 Seminal fluid, 381  
 Sequence homology, 349  
 Sericulture, 339  
 Serpitude, 254  
 Sheath blight, 364  
 Shoreline change, 334  
 Siganidae, 227  
 Siguatoxin, 227  
 Silkworm, 373  
 Siltation, 335  
 Sodium chloride, 216  
 Soil-borne diseases, 364  
 Solvent extraction, 374  
 Southern analysis, 185  
 Soybean, 185  
 Spawning, 345  
 SSR, 360  
 Starter culture, 376  
 $\beta$ -sitosterol, 197  
 $\beta$ -sitosteryl- $\beta$ -D-glucoside, 197  
 Stocking density, 378  
 STR, 354  
 Stress, 216  
 Subgraph, 166  
 Subic Bay Forest Reserve, 345  
 Subsidence, 334, 335  
 Subtilisin, 352  
 Sugarcane wastewater, 377  
 Sugarcane, 3676  
 Sugarcane, 72  
 Superoxide dismutase, 216  
 Survival, 378  
 Sustainability, 130  
 Sustainable development, 278  
 Symmetric group, 155

## T

Taal Lake, 341, 342  
Taal Lake, 345  
Taal Volcano, 341  
Taxonomy, 344  
Technologies, 388  
Tetravalent dengue antigen, 254  
Tetravalent antibody, 354  
Thiaridae, 345  
Tilapia, 375  
Tinabal molmol, 376  
Tissue desiccation, 375  
Tobacco seed oil, 374  
Toxin, 382  
Trade liberalization, 130  
Transformation, 363  
Transgenic lines, 362  
Transmission, 244  
*Tridacna crocea*, 347  
*Trifolium castaneum*, 350  
Tyrosinase, 357

## U

Ultrasonogram, 263  
Ultrasound, 263  
Unidirected, 166  
Unique variance matrix, 331  
UP Diliman, 340

## V

*Vallisneria spiralis*, 341  
Virulence, 362  
Virus, 244  
Visayas, 370

## W

Water resource, 377  
Weeds, 148  
Whitewares, 336  
Wildlife, 340  
Wildlife, 348  
World trade, 72  
WTP, 377

## X

Xa21 gene, 362  
*Xanthomonas oryzae*, 362

## Y

Yerba Buena, 197

## Z

Zinc, 201  
Zooplankton, 341

