

ABA	see Abscissic acid
Abcissic acid	360
Accelerations, tolerable	346
Acetaminophen	402
Adaptations, parasite	378
Adenovirus	81
aDNA	see Ancient DNA
Aerobic metabolism	120
Aging, comprehensive scheme	435
Agrobacteria	81
Allergies	370
Alpha helix, protein	133
Altruism	256
Ancient DNA	430
Anglerfish	387
Animal drying	see Drying, animal
Animal models	19
Animal slaughter	477
Animal testing	19
Animals, for food	477
Antibiotic	401
Apoptosis	370
Apoptosis	384
Apoptosis	435
Appetite, dinosaurs	296
Arsenic, in bacteria	91
Assortative mating	389
Assortative pairing	see Assortative mating
Atherosclerosis	435
Autoimmune diseases	295
Bacteria, and arsenic	91
Bacteria, gram positive and negative	69
Bacteria, gram-positive and gram-negative	378
Bacteria, thermophilic	120
Bacterial immunity	242
Bacteriophages	242
Bats	361
Bats	374
Beetles	577
Beta sheets, protein	133
Biofuels	324
Bioremediation	577

Biolithics	560
Biological rules	223
Bioremediation	324
Blood vessels	295
Body development	238
Body position	471
Body structure	238
Body temperature	296
Body temperature, dinosaur	296
Bone strength	531
Brain, optimum	360
Bt corn	see Corn, Bt
Cancer cells	384
Cancer	295
Carbon to nitrogen ratio	120
Carlson, Robert H. quote	351
Cat parasite	379
Cats lapping	531
Cats	409
Cattle, heat stress	305
Cell conditions	130
Cell culture	346
Cell cultures	19
Cell death	370
Cell death	384
Cell membrane	81
Cell walls, bacterial	378
Cell walls, bacterial	69
Cellular death	435
Cellular environment	346
Cellulose, in wood	346
Chainsaw vibration	346
Chelation	23
Cholesterol	435
Chromatin	232
Chromosomes, human	384
Clones	313
Colors of life	115
Colostrum	420
Communication, with animals	405
Communications	351
Composting	120
Control of insect flight	577
Corn color	256
Corn, Bt	259
Cortisol	471

Cotton	23
Coyotes	456
Cryptobiosis	61
Cyborg beetles	577
Cytoplasm	130
Dalton	377
DaVinci, Leonardo quote	see Quote, Leonardo DaVinci
Decelerations, tolerable	346
Deep ocean	387
Depression	295
Depression	402
Detergents	93
Diabetes	374
Digestion, aerobic	120
Digestion, anaerobic	120
Dinosaurs	296
Diseases, bacterial	378
Diseases, bat	361
Diseases, human	378
DNA molecules	232
DNA replication	245
DNA vaccines	81
Dominance	471
Driving	471
Drought tolerance, plant	360
Drug testing	19
Drying, animal	531
E. coli	374
Ecological balance	278
Ecology	370
Einstein, Albert quote	see Quote, Albert Einstein
Electroporation	81
Endocytosis	420
Endocytosis	560
Endocytosis	58
Entertainment engineering	346
Environmental pressure	324
Environmental response	133
Enzymes, plant	23
Epigenetics	313
Epigenetics	351
Epigenome	241
Evolution	133
Evolution	389
Exceptions to general rules	223
Exocytosis	204

Exocytosis	58
Fear	451
Fermentation	296
Fight or flight reaction	451
Flu	see Influenza
Fluorescence resonance energy transfer	404
Food, dinosaur	296
Food, from animals	477
Forces, on snake	320
Free radicals	435
FRET	see Fluorescence resonance energy transfer
Friction coefficient	320
Frictional anisotropy	320
Fruit flies	313
Fruit fly	238
Gene mapping, HeLa	384
Gene names	278
Gene, synthetic	268
Genetic competition	256
Genetic error correction	245
Genetic expression	313
Genetic parasites	256
Genetic variability	351
Genome size, mycoplasma	377
Giant viruses	see Viruses, giant
Glyphosate herbicide	23
Groups	401
Gut, human	296
Hamilton's Rule	256
Hardness	402
Hayflick limit	384
Hayflick Limit	384
Heart disease	295
Heat loss	305
Heaviness	402
HeLa cells	384
Hemicellulose, in wood	346
Histone proteins	232
Hox genes	233
Hox genes	238
Human gut	370
Human Immunodeficiency Virus	378
Immune response	81
Immune system, bacterial	242
Indole	401
Influenza	378

Intelligence, animal	456
Iron	402
Jobs, Steven quote	see Quote, Steven Jobs
King Kong	531
Kurland, Michael quote	346
Lactobacillus	296
Lentiviruses	560
Leonardo DaVinci	see Quote, Leonardo DaVinci
Ligands	402
Lignin, in wood	346
lincRNA	see noncoding RNA
Locomotion	320
Machupo virus	402
Magnetic sensing	410
Magnetoception	410
Magnetosome	410
Maize color	256
Manure	120
McClintock effect	400
Melanopsin	441
Membrane receptors	402
Memes	451
Memory, and prions	133
Menstrual synchrony	400
Mental concepts	402
Metabolism, cellular	435
Metal mining	577
Microbes, and digestion	296
Microbes, gut	370
Microbes, mining with	577
Microbiome	370
Microflora	296
Micropores, in pollen	391
Milk conferring immunity	420
Mimicry	225
Mining	577
Mitochondrial function	435
Monkeys	396
Mutations, and aging	435
Mutual benefit	370
Mycoplasmas	377
Mycorrhiza	296
Natural frequency, human viscera	346
Natural selection	324
ncRNA	see noncoding RNA
Necrosis	370

Nitrogen, in protein	115
Nonverbal expression	405
Nucleosomes	232
Oocysts	379
Optimization, brain	see Brain, optimum
Optimum, broad or narrow	351
p53 gene	435
Packaging	402
Pain	402
Penicillin	338
Phages	242
Pheromones	409
Pheromones, human	400
Phosphates	93
Photoreceptors, nonvisual	441
Pistils	391
Plant pollination	391
Plant respiration	23
Plants, strength	346
Plasmids	81
Poaching, of rhinos	539
Pollen, and honeybees	296
Pollination, flower	374
Poplar trees	313
Porphyrins	115
Powdery mildew	256
Power, body position	471
PPLO	see Mycoplasmas
Predator calls	396
Predator defenses	396
Prions	133
Probiotics	374
Protein folding	130
Protein misfolding	133
Protein	115
Proteins, unstructured	138
Quote, Albert Einstein	305
Quote, Leonardo DaVinci	296
Quote, Leonardo DaVinci	305
Quote, Michael Kurland	346
Quote, Robert H. Carlson	351
Quote, Robert L. Dorit	346
Quote, Steven Jobs	378
Quote, Theodore Roosevelt	360
Radiation research	384
Raynaud's syndrome	346

Rec A protein	see DNA replication
Redundancy, in biology	23
Refuge crop	see Sanctuary crop
Replication of prions	133
Reproduction, in deep fish	387
Resistance, antibiotic	401
Resistance, genetic	259
Resistance, herbicide	23
Respiration, plant	23
Respiratory Syndrome	
Rhinoceros	539
Ricketts	295
RNA, noncoding	233
Robert L. Dorit quote	346
Rocking motion	346
Roosevelt, Theodore quote	see Quote, Theodore Roosevelt
Rough objects	402
Roundup-Ready crops	23
Sanctuary crop	259
SARS	see Severe Acute
Schizophrenia	379
Selective advantage	225
Senescence, cell	384
Serotonin	295
Severe Acute Respiratory Syndrome	378
Shaking frequency	531
Shavenbaby gene	313
Shock-absorbing systems	346
Simian Immunodeficiency Virus	378
Single-stranded binding protein	245
SIV	see Simian Immunodeficiency Virus
Sleep duration, mammals	442
Slithering	320
Smooth objects	402
Snakes	320
Sociobiology	256
Soybeans	23
Sports engineering	346
Sports	346
SSB protein	see Single-stranded binding protein
Stain, bacterial	69
Stamens	391
Strength of wood	346
Stress, wood	346

Stresses, critical	531
Structural constraints	531
Survival	225
Synapse, nerve	133
Synthetic genes	268
Table, Common Compost Materials	120
Table, shaking frequencies of animals	531
Tardigrades	61
Telomeres, and aging	435
Temperature regulation, dinosaur	296
Tend and bond reaction	451
Testosterone	471
Three-dimensional cell culture	346
Tool use	456
Chimpanzees	456
Touch	402
Toxicity of elements	90
Toxins, research	384
Transfection agents	560
Transmissible spongiform encephalopathies	133
Transposons	256
Trichomes	313
Vaccines, DNA	81
Vervet monkeys	396
Vibrations, on human	346
Vibrator seats	471
Virophage	427
Viruses, giant	427
Viruses, in nucleic acid delivery	560
Vision	441
Vitamin D	295
Warmth	402
Water bears	61
Water, drinking	531
White nose syndrome	361
Wind chill temperature	305
Wolves	278
Wood	346
Woodpecker	346
Yeast	133
Yellowstone Park	278
Yogurt	296