

# Index

- 3' end (3'末端) ..... 48  
3R principles (3Rの原則) ..... 206  
5' end (5'末端) ..... 48  
“9 + 2” microtubular pattern  
(9 + 2構造) ..... 18
- A**
- A band (A帯) ..... 121  
abiogenesis (自然発生説) ..... 186  
ABO blood types (ABO式血液型) ..... 147  
absorption (吸収) ..... 34  
absorption spectra (吸収スペクトル) ..... 74  
acacia (アカシア) ..... 165  
acetaldehyde dehydrogenase  
(アセトアルデヒド脱水素酵素) ..... 59  
acetic acid (酢酸) ..... 64  
acetyl-CoA (アセチルCoA) ..... 64  
acetyl-coenzyme A synthetase  
(活性酢酸合成酵素) ..... 59  
acid mist (酸性霧) ..... 177  
acid rain (酸性雨) ..... 176  
acidity (酸性) ..... 60  
acoelomate (無体腔動物) ..... 202  
acquired immunity (獲得免疫) ..... 130, 134  
acquisition (獲得) ..... 57  
acrosomal process (先体突起) ..... 102  
acrosome (先体) ..... 102  
acrosome reaction (先体反応) ..... 102  
actin (アクチン) ..... 18  
actin filament  
(アクチンフィラメント) ..... 18  
action (作用) ..... 166  
action potential (活動電位) ..... 117  
activation (活性化) ..... 94  
activation energy  
(活性化エネルギー) ..... 57  
active site (活性中心) ..... 58  
active transport (能動輸送) ..... 21  
acute toxicity (急性毒性) ..... 207  
adaptive immunity (適応免疫) ..... 130, 134  
adaptive radiation (適応放散) ..... 195  
adenine (アデニン) ..... 40  
adenosine diphosphate (ADP)  
(アデノシン二リン酸) ..... 41  
adenosine triphosphate (ATP)  
(アデノシン三リン酸) ..... 41, 62  
adhesion molecules (接着分子) ..... 25, 114  
adrenal cortex (副腎皮質) ..... 126  
adrenal medulla (副腎髄質) ..... 126  
adrenaline (アドレナリン) ..... 126, 128  
*Aequorea victoria* (Jellyfish)  
(オワンクラゲ) ..... 209  
aerobe (好気性生物) ..... 24  
aerobic (好氣的/好気性) ..... 188  
aerobic bacteria (好気性細菌) ..... 24  
aerobic glycolysis (好氣的解糖系) ..... 64  
aerobic respiration (oxygen  
respiration) (好気呼吸) ..... 64  
afferent nerve fiber (求心性) ..... 119  
Afrotropic ecozone (エチオピア区) ..... 165  
agave (リュウゼツラン) ..... 165  
age level (齢段階) ..... 170  
agglutination (凝集反応) ..... 135  
aging (老化) ..... 111  
agnathans (無顎動物) ..... 201  
*Agrobacterium*  
(アグロバクテリウム) ..... 207  
alanine (アラニン) ..... 29  
alcohol (アルコール) ..... 22  
alcoholic fermentation  
(アルコール発酵) ..... 64  
aldehyde (アルデヒド) ..... 33  
aldose (アルドース) ..... 33  
alexin (補体) ..... 132  
alfalfa (ムラサキウマコヤシ) ..... 173  
alga (藻類) ..... 190  
alkaline (アルカリ性) ..... 28  
allele (対立遺伝子) ..... 143  
allelotype (対立形質) ..... 144  
allergen (アレルゲン) ..... 137  
allergy (アレルギー) ..... 137  
allopatric distribution (異所的分布) ..... 195  
allopatric speciation (異所的種分化) ..... 195  
allosteric enzyme  
(アロステリック酵素) ..... 61  
allosteric site (アロステリック部位) ..... 61  
aloe (アロエ) ..... 165  
 $\alpha$  orientation ( $\alpha$ 配位) ..... 34  
 $\alpha$ -helix ( $\alpha$ ヘリックス) ..... 31  
 $\alpha$ -ketoglutaric acid  
( $\alpha$ -ケトグルタル酸) ..... 81  
alternative freon gases  
(代替フロン) ..... 179  
altruistic behavior (利他的行動) ..... 184  
alveolata (アルベオラータ) ..... 204  
*Amanita pantherina* (テングタケ) ..... 200  
amensalism (片害) ..... 168  
amino acid (アミノ酸) ..... 28  
amino acid metabolism  
(アミノ酸代謝) ..... 63  
amino group (アミノ基) ..... 28  
aminoacyl-tRNA  
(アミノアシルtRNA) ..... 52  
aminotransferase (アミノ基転移酵素) ..... 81  
ammonia (アンモニア) ..... 32  
ammonification (アンモニア化) ..... 175  
amnion (羊膜) ..... 190  
amniotes (羊膜類) ..... 201  
amoeba (アメーバ) ..... 203  
amphibia (両生類) ..... 189  
amphoteric electrolyte (両性電解質) ..... 28  
ampulla of uterine tube  
(卵管膨大部) ..... 104  
amylase (アミラーゼ) ..... 34  
amylopectin (アミロペクチン) ..... 34  
anabolism (同化) ..... 63  
anaerobic (嫌気性) ..... 22  
anaerobic glycolysis (嫌氣的解糖系) ..... 64  
anaerobic respiration (嫌気呼吸) ..... 64  
anal pore (細胞肛門) ..... 91  
anal sphincter (肛門括約筋) ..... 125  
anaphase (後期) ..... 88  
ancestor (祖先) ..... 189  
ancestor of vertebrate  
(脊椎動物の祖先) ..... 189  
ancestral organism (起源生物) ..... 196  
androgen (アンドロゲン) ..... 111  
angiosperm (被子植物) ..... 190  
animal (動物) ..... 15  
animal pole (動物極) ..... 103  
annelida (環形動物) ..... 201  
annular subunit (輪状サブユニット) ..... 16  
ant (アリ) ..... 201  
ant-eater (アリクイ) ..... 165  
Antarctic ecozone (南極区) ..... 165  
anterior (前葉) ..... 107  
anterior pituitary gland  
(脳下垂体前葉) ..... 126  
*Anthoceros* (ツノゴケ) ..... 200  
anthropoid (類人猿) ..... 192

antibody (抗体).....	134	<i>Australopithecus africanus</i> (アウスト ラロピテクス・アフリカヌス).....	191	biogeographical region (ecozone) (生物地理区).....	164
antibody-producing cell (抗体産生細胞).....	134	autocrine (自己分泌).....	116	biological clock (生物時計).....	183
antigen (抗原).....	133	autonomic nerve (自律神経).....	119	biological community (生体群集).....	194
antigen-presentation (抗原提示).....	133	autonomic nervous system (自律神経系).....	119, 122	biological environment (生物的環境).....	166
antigen-presenting cell (抗原提示細胞).....	133	autosomal inheritance (常染色体遺伝).....	157	biological membrane (生体膜).....	20
anuclear cell (無核の細胞).....	120	autosome (常染色体).....	153	biomass (生物量).....	172
anuran (カエル).....	14	autotroph (独立栄養).....	22	biomass pyramid (生物量ピラミッド).....	172
anus (肛門).....	25	autotrophic bacteria (独立栄養細菌).....	188	biophylaxis (生体防御).....	28
ape-man (猿人).....	191	autotrophic organism (独立栄養生物).....	71, 171	biotic community (生物群集).....	166
Apicomplexa (アピコンプレクサ類).....	203	Aves (鳥類).....	189	bivalve (二枚貝).....	201
apocrine sudoriferous gland (アポクリン汗腺).....	131	axial (頂生).....	141	black pine (クロマツ).....	72
apoenzyme (アポ酵素).....	58	axon (軸索).....	117	blackface sheep (ブラックフェイス種).....	210
apoptosis (アポトーシス).....	108	axon terminal (末端).....	117	bladder (膀胱).....	25
apoptotic body (アポトーシス小体).....	109	ayu (アユ).....	168	blastocoel (卵割腔).....	103
appendix (虫垂 (盲腸)).....	25			blastocyst (胚盤胞).....	104
Apusozoa (アプソゾア類).....	203			blastomere (割球).....	103
aquaporin (アクアポリン).....	21			blastopore (原口).....	103
aquatic life (水中生活).....	190			blastula (胞胚).....	103
arachnid (クモ類).....	201			blocked blood vessel (閉鎖血管系).....	121
archaea (古細菌).....	23			blood (血液).....	121
Archaeplastida (アーケプラスチダ).....	203			blood capillary (毛細血管).....	131
archaic human (旧人).....	191			blood cell (血球).....	12
archanthropine (原人).....	191			blood circulation (血液循環).....	125
archenteron (原腸).....	103			blood circulatory system (血管系).....	116
arginine (アルギニン).....	29			blood coagulation (血液凝固).....	131
armadillo (アルマジロ).....	165			blood glucose (=blood sugar) (血糖).....	35, 63, 68
arrector pili muscle (立毛筋).....	126			blood glucose level (血糖量・血糖値).....	35, 68, 128
arrow worm (ヤムシ).....	173			blood plasma (血漿).....	120
artery (動脈).....	126			blood platelet (血小板).....	120
arthropod (節足動物).....	202			blood vessel (血管).....	39
asbestos (アスベスト).....	95			blue green alga (ラン藻 (→ also see cyanobacteria)).....	188
ascomycotina (子のう菌類).....	200			blue whale (シロナガスクジラ).....	173
ascorbic acid (アスコルビン酸).....	41			boar (イノシシ).....	165
ascospore (子のう胞子).....	200			body fluids (体液).....	120
asexual reproduction (無性生殖).....	97			bone (骨).....	42
asparagine (アスパラギン).....	29			bone marrow (骨髄).....	85
aspartic acid (アスパラギン酸).....	29			bony fishes (硬骨魚類).....	201
<i>Aspergillus</i> (コウジカビ).....	200			Bowman's capsule (ボーマン囊).....	122
aster (星状体).....	88			<i>Brachionus</i> (ツボワムシ).....	101
asymmetric carbon (不斉炭素).....	30			brain (脳).....	118
atmosphere (大気).....	71			branchial respiration (えら呼吸).....	190
atom (原子).....	28			bread wheat (コムギ).....	197
atonicity (弛緩).....	121			breathing (呼吸 (特に外呼吸)).....	64
ATP (→ see adenosine triphosphate)				breeding behavior (繁殖行動).....	183
ATP production (ATP産生).....	64			brittle star (クモヒトデ).....	173
ATP synthetase (ATP合成酵素).....	66			bronchial tube (気管支).....	125
ATPase (ATP分解酵素).....	59			brown algae (褐藻類).....	200
Australasia ecozone (オーストラリア区).....	165			Bryophyte (コケ植物).....	190
australopithecine (アウストラロピテクス類).....	191				
		<b>B</b>			
		B cell (B細胞).....	68		
		bacillus (細菌).....	23		
		<i>Bacillus subtilis</i> (枯草菌).....	200		
		bacteriochlorophyll <i>a</i> (バクテリオクロロフィル <i>a</i> ).....	74		
		"bad" cholesterol (悪玉コレステロール (→ also see LDL)).....	39		
		banana (バナナ).....	165		
		basal body (kinetosome) (基底小体).....	20		
		basal cell (基底細胞).....	85		
		base (塩基).....	18		
		basement membrane (基底膜).....	26		
		basidiomycete (担子菌類).....	200		
		basidiospore (担子胞子).....	200		
		basophil (好塩基球).....	120		
		bat (コウモリ).....	197		
		bear grass (イトラン).....	165		
		beaver (ビーバー).....	165		
		beech (ブナ).....	165		
		beef (牛肉).....	173		
		behavior (行動).....	182		
		benign tumor (良性腫瘍).....	94		
		benkei grass (ベンケイソウ).....	80		
		beriberi (脚気).....	41		
		β orientation (β配位).....	34		
		β-carotene (β-カロテン).....	75		
		β-oxidation (β酸化).....	68		
		β-pleated sheet (β-シート).....	31		
		β-turn (β-ターン).....	31		
		bicoid (ピコイド).....	107		
		bikont (バイコント).....	203		
		bioaccumulation (生物濃縮).....	178		
		biodiversity (生物多様性).....	92, 180		
		bioethics (生命倫理).....	205		

- budding (出芽) ..... 97  
 bundle sheath cell (維管束鞘細胞) ..... 79
- C**
- C terminal (C末端) ..... 136  
 C<sub>3</sub> cycle (C<sub>3</sub>回路) ..... 78, 79  
 C<sub>3</sub> plant (C<sub>3</sub>植物) ..... 79  
 C<sub>4</sub> cycle (C<sub>4</sub>回路) ..... 79  
 C<sub>4</sub> plant (C<sub>4</sub>植物) ..... 79  
 cactus (サボテン) ..... 165  
 cadherin (カドヘリン) ..... 25  
 calcitonin (カルシトニン) ..... 123  
 calcium (カルシウム) ..... 42  
 callus culture (カルス培養) ..... 207  
 Calvin-Benson-Bassham cycle  
 (カルビン回路) ..... 78, 79  
 CAM plant (CAM植物) ..... 79  
 camel (ラクダ) ..... 165  
 camel bird (ダチョウ) ..... 165  
 camellia (ツバキ) ..... 72  
 cancer cell (がん細胞) ..... 93  
 cancerization (がん化) ..... 84, 94  
 cancerous cell (がん化細胞) ..... 94  
 cap structure (キャップ構造) ..... 52  
 Cape ecozone (ケープ区) ..... 165  
 carbohydrate (炭水化物) ..... 32  
 carbohydrate chain (糖鎖) ..... 36  
 carbohydrate metabolism (糖代謝) ..... 63  
 carbohydrate-degrading enzyme  
 (炭水化物分解酵素) ..... 59  
 carbon (炭素) ..... 28  
 carbon assimilation (炭素同化) ..... 172  
 carbon compound (炭素化合物) ..... 174  
 carbon cycle (炭素の循環) ..... 174  
 carbon dioxide (二酸化炭素) ..... 19  
 carbon fixation (炭酸固定) ..... 79  
 carbonate dehydratase  
 (炭酸脱水酵素) ..... 59  
 carbonic acid (炭酸) ..... 59  
 carbonic anhydrases  
 (カーボニックアンヒドラーゼ) ..... 59  
 carboxy group (カルボキシ基) ..... 28  
 carboxy-lyase (脱炭酸酵素) ..... 59  
 carcinogenicity (がん原性) ..... 207  
 cardiomyocyte (心筋細胞) ..... 212  
 carotenoids (カロテン) ..... 74  
 carp (コイ) ..... 201  
 carrier (保因者, キャリアー) ..... 158  
 Cartagena Act (カルタヘナ法) ..... 208  
 cartilage fishes (軟骨魚類) ..... 201  
 caspase (カスパーゼ) ..... 109  
 cassowary (ヒクイドリ) ..... 165  
 catabolism (異化) ..... 57  
 catalase (カタラーゼ) ..... 59  
 catalyst (触媒) ..... 57  
 caudal (尾部) ..... 107  
 cDNA (→ see complementary DNA)  
 cecum (盲腸) ..... 25  
 cedar (スギ) ..... 137  
 cell (細胞) ..... 12  
 cell body (細胞体) ..... 117  
 cell cycle (細胞周期) ..... 86, 115  
 cell differentiation (細胞分化) ..... 24, 92  
 cell dividing cycle (細胞分裂周期) ..... 87  
 cell division (細胞分裂) ..... 84  
 cell immunity (細胞性免疫) ..... 134  
 cell mass (細胞塊) ..... 104  
 cell membrane (細胞膜) ..... 18  
 cell plate (細胞板) ..... 89  
 cell theory (細胞説) ..... 13  
 cell wall (細胞壁) ..... 21  
 cell-matrix adhesion (基質間接着) ..... 26  
 cellular slime molds  
 (細胞性粘菌類, アクラシア類) ..... 203  
 cellular society (細胞社会) ..... 92, 115  
 cellulase (セルラーゼ) ..... 59  
 cellulose (セルロース) ..... 34  
 celom (体腔) ..... 202  
 centipede (ムカデ) ..... 201  
 central dogma (セントラルドグマ) ..... 46  
 central nerve (中枢神経) ..... 211  
 central nervous system  
 (中枢神経系) ..... 118  
 centrosome (中心体) ..... 18, 88  
 cephalopoda (頭足類) ..... 201  
*Ceratomyxa fruticulosa*  
 (ツノホコリ) ..... 200  
*Ceratium* (ツノモ) ..... 200  
 Cercozoa (ケルコゾア) ..... 204  
 cerebellum (小脳) ..... 118  
 cerebral nerves (脳神経) ..... 106  
 cerebrum (大脳) ..... 118  
 chaetognath (毛顎動物) ..... 201  
 chain structure (直鎖) ..... 33  
 chameleon (カメレオン) ..... 165  
 channel (チャネル) ..... 21  
*Chara* (シャジクモ) ..... 200  
 characteristics (特徴) ..... 42  
 Charophytes (シャジクモ類) ..... 200  
 chemical composition (化学組成) ..... 27  
 chemical energy (化学エネルギー) ..... 74  
 chemical evolution (化学進化) ..... 187  
 chemical reaction (化学反応) ..... 57  
 chemical substances (化学物質) ..... 137  
 chemosynthetic bacteria  
 (化学合成細菌) ..... 171  
 chemotactic properties (化学走性) ..... 114  
 cherry (サクラ) ..... 72  
 chestnut (クリ) ..... 165  
 chicken (ニワトリ) ..... 104  
 chilopod (ムカデ類) ..... 201  
 chimera mouse (キメラマウス) ..... 208  
 chimpanzee (チンパンジー) ..... 165  
*Chlamydomonas* (クラミドモナス) ..... 200  
 Chlorarachniophytes  
 (クロララクニオン植物) ..... 203  
 chloride (塩素) ..... 179  
 chlorine monoxide (一酸化塩素) ..... 179  
 chlorophyll *a* (クロロフィル *a*) ..... 74  
 chlorophyll *b* (クロロフィル *b*) ..... 74  
 Chlorophyte (緑色植物) ..... 203  
 chloroplast (葉緑体) ..... 19, 73  
 choanoflagellates (襟鞭毛虫類) ..... 203  
 cholesterol (コレステロール) ..... 37  
 chondrocyte (軟骨細胞) ..... 106  
 Chordata (脊索動物) ..... 201  
 Chromalveolata  
 (クロムアルベオラータ) ..... 203  
 chromatid (染色分体) ..... 88  
 chromatin (染色質 (クロマチン)) ..... 44, 88  
 chromonema (染色糸) ..... 15  
 chromosomal abnormality  
 (染色体異常) ..... 160  
 chromosome  
 (染色体 (クロモソーム)) ..... 44, 88  
 chronic toxicity (慢性毒性) ..... 207  
 chylomicron (キロミクロン) ..... 39  
 chymotrypsin (キモトリプシン) ..... 59  
 chytrid fungus (カエルツボカビ) ..... 200  
 Chytridiomycota (ツボカビ類) ..... 200  
 cilia (繊毛) ..... 18  
 ciliate (繊毛虫) ..... 201  
 cilium (繊毛裂) ..... 19  
 circadian rhythm (概日リズム) ..... 183  
 circular DNA (環状DNA) ..... 24  
 circular subunit (環状サブユニット) ..... 16  
 circulation organs (循環器) ..... 105  
 citric acid (クエン酸) ..... 64  
 citric acid cycle (クエン酸回路) ..... 64  
*Cladophora* (シオグサ) ..... 19  
 clam (ハマグリ) ..... 173  
 class (綱) ..... 199  
 cleavage (卵割) ..... 103  
 clinical study (臨床研究) ..... 206  
 clone (クローン) ..... 209  
 cnidarians (刺胞動物) ..... 202  
 coacervate hypothesis  
 (コアセルベート説) ..... 187  
 coated vesicle (被覆小胞) ..... 17  
 cobalamine (コバラミン) ..... 41  
 coconut palm (ココヤシ) ..... 165  
 codon (コドン) ..... 53

coelenteron (腔腸).....	25	cyanobacteria (シアノバクテリア (ラン藻)).....	188	deuterocoelium (真体腔動物).....	202
coenzyme (補酵素).....	58	cycad (ソテツ類).....	200	deuterostome (新口動物).....	201
cofactor (補因子).....	58	cyclic structure glucose (環状グルコース).....	33	dextrin (デキストリン).....	59
coffee tree (コーヒーの木).....	165	cytology (細胞学).....	70	diagnostic technology (診断技術).....	206
collagen fiber (コラーゲン繊維).....	30	cyprino (ヒノキ).....	200	diatoms (珪藻類).....	178
collecting duct (集合尿管).....	129	cyprinoid fish (コイ科の魚).....	180	dicotyledons (双子葉類).....	202
commensalism (片利共生).....	167	cysteine (システイン).....	29	<i>Dictyostelium discoideum</i> (キイロタマホコリ).....	200
compensation point (補償点).....	71	cystic fibrosis (嚢胞性線維症).....	158	diencephalon (間脳).....	118
complementary DNA (cDNA) (相補DNA).....	46	cytochrome <i>c</i> (シトクロム <i>c</i> ).....	66	differentiation (分化).....	84
complementary gene (補足遺伝子).....	147	cytochrome complex (シトクロム複合体).....	76	differentiation of lineage (系統の分化).....	196
complex (複合体).....	16	cytokine (サイトカイン).....	93	digenic hybrid (二遺伝子雑種).....	144
conditional gene (条件遺伝子).....	148	cytoplasm (細胞質).....	13	digestive gland (消化腺).....	125
conditioned response (条件反射).....	183	cytosine (シトシン).....	40	digestive system (消化系).....	105
condor (コンドル).....	165	cytoskeletal protein (細胞骨格タンパク質).....	110	digestive tract (消化管).....	104
conifers (球果類).....	200	cytoskeleton (細胞骨格).....	18	digestive vacuole (食胞).....	91
connective tissue (結合組織).....	25			dilatation (拡張).....	125
connexin (コネクシン).....	26	<b>D</b>		dimer (二量体).....	136
<i>Conocephalum</i> (ジャゴケ).....	200	D-form of amino acid (D型アミノ酸).....	30	Dinoflagellates (渦鞭毛藻類).....	178
constant region (定常領域).....	136	Darwin (ダーウィン).....	193	diphosphate (二リン酸).....	40
consumer (消費者).....	70, 171	Darwin's finches (ダーウィンフィンチ).....	194	diploblastic (二胚葉).....	201
consumption (消費).....	57	daughter cell (娘細胞).....	47	diploblastica (二胚葉動物).....	202
contact transmission (接触型情報伝達).....	115	deamination (脱アミノ反応).....	32	diplomonad (ディプロモナス類).....	204
contractile vacuole (収縮胞).....	91	decline form (衰退型).....	170	diplopod (ヤスデ類).....	201
contraction (収縮).....	124	decomposer (分解者).....	70, 171	disaccharide (二糖類).....	33
coral (サンゴ).....	167	decomposition (分解).....	32	discicristata (盤状クリステ).....	204
cork (コルク).....	12	deficiency disease (欠乏症).....	41	disorder causative genes (原因遺伝子).....	157
corpus callosum (脳梁).....	118	degradation enzymes (分解酵素).....	110	distome (ジストマ).....	201
cortex (皮質).....	123	dehydrogenase (脱水素酵素).....	64	distribution (分布).....	164
cortical granules (表層顆粒).....	102	dendrite (樹状突起).....	117	division (分裂).....	97
cortical membrane (皮質膜).....	131	dendritic cells (樹状細胞).....	130	division apparatus (分裂装置).....	88, 89
corticotropin (副腎皮質刺激ホルモン).....	123	denitrifying bacteria (脱窒素細菌).....	175	DNA (→ see <i>deoxyribonucleic acid</i> ).....	
cotyledon (子葉).....	144	density (密度).....	39	DNA double helix (DNA 二重らせん).....	47
covering gene (被覆遺伝子).....	149	density effect (密度効果).....	169	DNA helicase (DNA ヘルパーゼ).....	47
crab (カニ).....	94	deoxyguanosine monophosphate (dGMP) (デオキシグアノシン一リン酸).....	41	DNA ligase (DNA 連結酵素 (DNA リガーゼ)).....	48
cranial (頭部).....	20	deoxyribonucleic acid (DNA) (デオキシリボ核酸).....	39, 44	DNA polymerase (DNA ポリメラーゼ).....	48
creation theory (生物創造説).....	192	deoxyribonucleotide (デオキシリボヌクレオチド).....	39	DNase (DNA アーゼ).....	59
Creutzfeldt-Jakob disease (クロイツフェルト・ヤコブ病).....	32	deoxyribose (デオキシリボース).....	33	Dolly (ドリー).....	210
crista (クリステ).....	17	deoxyribose-phosphate backbone (デオキシリボース一リン酸バックボーン).....	45	dominant (優性).....	143
critically endangered (CR) (絶滅危惧 IA 類).....	182	derived lipid (誘導脂質).....	37	dominant gene (優性遺伝子).....	143
crossing-over (乗換え).....	156	dermatitis (皮膚炎).....	41	dominant trait (優性形質).....	143
croton oil (クロトン油).....	95	dermis (真皮).....	130	dormouse (ヤマネ).....	165
crustacean (甲殻類).....	34	desertification (砂漠化).....	174	double-helix structure (二重らせん構造).....	43
cryptomonad (クリプト植物).....	203	desiccation tolerance (乾燥耐性).....	80	doublet microtubule (周辺微小管).....	20
Cryptophyta (クリプト藻).....	199	desmosome (接着斑 (デスモソーム)).....	25	Down's syndrome (ダウン症).....	160
ctenophore (クシクラゲ).....	201	detritus (デトリタス).....	171	Duchenne muscular dystrophy (デュシェンヌ型筋ジストロフィー).....	160
ctenophores (有櫛動物).....	201			duodenum (十二指腸).....	32
culture (培養).....	167			duplicate gene (同義遺伝子).....	148
cuticle (角質層).....	131				
cyanide (シアン化合物).....	67				

dynein arms (ダイニンの腕).....	20
<b>E</b>	
early development (初期発生).....	101
earthworm (ミミズ).....	201
eccrine gland (エクリン汗腺).....	131
ecdysis (脱皮).....	201
ecdysozoa (脱皮動物).....	201
echinoderm (棘皮動物).....	201
ecological niche (生態的地位).....	167
ecological pyramid (生態ピラミッド).....	172
ecosystem (生態系 (エコシステム)).....	166, 171
ectoderm (外胚葉).....	103
ectodermal organs (外胚葉性器官).....	105
Ediacara fauna (エディアカラ動物群).....	189
effector (修飾因子).....	60
effector caspase (実行型カスパーゼ).....	110
effector organ (効果器).....	119
efferent nerve fiber (遠心性).....	119
egestion system (排出系).....	105
egg plasma membrane (卵細胞膜).....	102
electric fusion (電気融合).....	210
electrical signal (電気的信号).....	117
electromagnetic wave (電磁波).....	74
electron (e <sup>-</sup> ) (電子).....	76
electron microscope (電子顕微鏡).....	14
electron repulsion (電气的反発力).....	62
electron transport chain (電子伝達系).....	66, 76
elution (浸出).....	130
embryo (胚・胎児).....	103
embryo sac (胚のう).....	190
embryonic disc (胚盤).....	104
embryonic stem cell (ES cell) (胚性幹細胞 (ES細胞)).....	212
emu (エミュー).....	165
endangered (EN) (絶滅危惧IB類).....	182
endocrine (内分泌).....	115
endocrine cell (分泌細胞).....	115
endocrine disrupting chemicals (内分泌かく乱物質).....	178
endocrine gland (内分泌腺).....	123
endocrine system (内分泌系).....	122
endocytosis (エンドサイトーシス).....	18
endoderm (内胚葉).....	103
endodermal organs (内胚葉性器官).....	105
endomembrane system (内膜系).....	17
endometrium (子宮内膜).....	104
endoplasmic reticulum (小胞体).....	16
endosome (エンドソーム).....	17
endospore (inner membrane) (内膜).....	17

endosymbiotic theory (共生説).....	24
energy conversion system (エネルギー変換系).....	76
energy metabolism (エネルギー代謝).....	57
Entamoebidae (エンタメーバ類).....	203
environment circumstances (環境).....	157
environmental factor (環境要因).....	71
enzyme (酵素).....	57
enzyme reaction (酵素反応).....	60
eosinophil (好酸球).....	120
epidemiological study (疫学研究).....	206
epidemiology (疫学).....	206
epidermal stem cell (表皮幹細胞).....	212
epidermis (表皮).....	73
epigenetic control (後成的制御).....	50
epithelial cancer (上皮がん).....	94
epithelial cell (上皮細胞).....	25
epithelial tissue (上皮組織).....	25
epithelium cell (腸の上皮組織).....	26
equatorial plane (赤道面).....	89
<i>Equisetum</i> (トクサ).....	200
ES cell (→ see <i>embryonic stem cell</i> ) <i>Escherichia coli</i> (大腸菌).....	14
essential amino acid (必須アミノ酸).....	32
essential fatty acid (必須脂肪酸).....	38
estrogens (エストロゲン).....	123
<i>Eucalyptus</i> (ユーカリ).....	165
euchromatin (ユークロマチン).....	50
eucoelomate (真体腔をもつ).....	201
<i>Euglena</i> ( <i>Euglena gracilis</i> ) (ミドリムシ).....	200
Euglenophyta (ユーグレナ植物).....	199
Euglenozoa (ユーグレノゾア).....	203
eukaryote (真核生物).....	13
eukaryotic cell (真核細胞).....	13
eukaryotic symbiont (真核共生体).....	199
eutrophication (富栄養化).....	178
evolution (進化).....	23
Excavata (エクスカバート).....	204
excess symptom (過剰症).....	41
exocytosis (エキソサイトーシス).....	18
exon (エキソン).....	52
exosporium (外膜).....	16
exponential curve (指数曲線).....	169
expression (発現).....	53
external environment (外部環境).....	114
external fertilization (体外受精).....	102
extinct (絶滅).....	180
extracellular fluid (細胞外液).....	93
extracellular matrix (細胞外基質).....	25
extremely acidophilic bacteria (高度好酸菌).....	201
extremely halophilic bacteria (高度好塩菌).....	201

extremely thermophilic bacteria (超好熱菌).....	201
extrication (ふ化).....	103
eyeball (眼球).....	106
eyepiece (ocular lenses) (接眼レンズ).....	14

**F**

FADH <sub>2</sub> (還元型フラビンアデニン ジヌクレオチド).....	66
fall webworm (アメリカシロヒトリ).....	169
family (科).....	199
Fas-ligand (Fasリガンド).....	110
fat cells (脂肪細胞).....	39
fat-soluble (脂溶性).....	42
fat-soluble vitamin (脂溶性ビタミン).....	41
fatty acid (脂肪酸).....	68
fatty acid synthesis (脂肪酸合成).....	63
feather (羽毛).....	190
feces (排出物).....	169
feedback (フィードバック).....	125
feedback inhibition (フィードバック阻害).....	61
feedback regulation (フィードバック調節).....	61
female (雌).....	98
ferredoxin (フェレドキシン).....	76
fertilization (受精).....	102
fertilization cone (受精丘).....	103
fertilization envelope (受精膜).....	102
fertilized egg (受精卵).....	24
fetal heartbeat monitoring (心音測定).....	161
fibrin (フィブリン).....	120
fibrinogen (フィブリノーゲン).....	120
figus (イチジク).....	165
field horsetail (スギナ).....	200
field study (フィールド研究).....	206
fimbriae of uterine tube (卵管采).....	104
fin (胸びれ).....	18
fine particle (微粒子).....	177
Finnish Dorset sheep (フィン・ドーセット種).....	210
fir (モミ).....	165
first filial generation (雑種第一世代 (F <sub>1</sub> )).....	140
fish (魚類).....	189
fish juvenile (稚魚).....	173
Five-Kingdom System (5界説).....	24, 199
flagella (鞭毛).....	18
Flagellates (鞭毛虫類).....	204
flathead silverside (トウゴロウイワシ).....	180
flatworm (へん形動物).....	201
flavin adenine dinucleotide (FAD) (フラビンアデニンジヌクレオチド).....	66

flowering fern (ゼンマイ)	200
fluid components (液体成分)	120
fluid mosaic model (流動モザイクモデル)	20
fluorescent dyeing (蛍光染色)	18
fluorine (フッ素)	179
focal contacts (フォーカルコンタクト)	26
follicle (濾胞)	100
follicle-stimulating hormone (濾胞刺激ホルモン)	123
food chain (食物連鎖)	70, 172
food web (食物網)	70, 172
foraminifera (有孔虫)	204
forelimb (前肢)	197
formed element (有形成分)	120
fossil fuel (化石燃料)	166
fossil human (化石人類)	192
free fatty acid (遊離脂肪酸)	38
freon gases (chlorofluorocarbons) (フロン)	179
fructose (フルクトース)	78
fructose-1,6-bisphosphate (フルクトース 1,6-ビスリン酸)	61
fructose-6-phosphate (フルクトース 6-リン酸)	59
fruit fly (ショウジョウバエ)	150
full lifetime (寿命)	170
fumaric acid (フマル酸)	65
fungi (菌類)	24

## G

G <sub>0</sub> phase (G <sub>0</sub> 期)	86
G <sub>1</sub> phase (G <sub>1</sub> 期)	86
G <sub>2</sub> phase (G <sub>2</sub> 期)	86
galactose (ガラクトース)	33
gallbladder (胆のう)	25
gamete (配偶子)	97
gamete disorders (配偶子病)	152
gap gene (ギャップ遺伝子)	108
gap junction (ギャップ結合)	25
garfish (ダツ)	180
gastric fluid (胃液)	207
gastrula (原腸胚)	103
gator (ワニ)	197
Gelidiaceae (テングサ)	200
gene (遺伝子)	44, 141, 142
gene frequency (遺伝子頻度)	196
genetic counseling (遺伝カウンセリング)	161
genetic diagnosis (遺伝子診断)	161
genetic disorder (遺伝病)	157
genetic disorders of autosomal inheritance (常染色体遺伝の遺伝病)	157
genetic drift (遺伝的浮動)	195

genetic element (遺伝因子)	141
genetic recombination (遺伝子の組換え)	156
genetic recombination technology (遺伝子組換え技術)	207
genetically-modified (GM) crop (遺伝子組換え作物)	207
genetically-modified food (遺伝子組換え食品)	207
genome (ゲノム)	44
genotype (遺伝子型)	142
genus (属)	199
geographical isolation (地理的隔離)	194
germ cell (生殖細胞)	85
germ layer (胚葉)	103
germ stem cell (生殖幹細胞)	212
giant kelp (コンブ)	200
gibbon (テナガザル)	192
ginger (ショウガ)	165
ginkgoes (イチョウ類)	200
giraffe (キリン)	167
glandula sebacea (皮脂腺)	131
Glaucophytes (灰色植物)	203
glia cell (グリア細胞)	117
global warming (地球温暖化)	177
glomerulus (糸球体)	122
glucagon (グルカゴン)	68, 128
glucan (グルカン)	34
glucide (糖質)	32
glucocorticoid (糖質コルチコイド)	127, 128
gluconeogenesis (糖新生)	68
glucoregulation (血糖量調節)	128
glucose (グルコース)	19
glucose factory (グルコース工場)	15
glucose-6-phosphate isomerase (グルコース 6-リン酸イソメラーゼ)	59
glutamate decarboxylase (グルタミン酸デカルボキシラーゼ)	59
glutamate synthase (グルタミン酸合成酵素)	81
glutamic acid (グルタミン酸)	29
glutamine (グルタミン)	29
glutamine synthase (グルタミン合成酵素)	81
glyceraldehyde-3-phosphate (グリセルアルデヒド 3-リン酸)	78
glycerate-3-phosphate (3-ホスホグリセリン酸)	78
glycerin (グリセリン)	37
glycerol (グリセロール)	37
glycine (グリシン)	29
glycogen (グリコーゲン)	34
glycogenolysis (グリコーゲン分解)	68
glycolipid (糖脂質)	36, 37
glycolysis (解糖系)	64

glycosidic bond (グリコシド結合)	34
GM crop (→ see <i>genetically-modified crop</i> )	
gnathostomes (顎口類)	201
Golgi apparatus (Golgi body) (ゴルジ装置/ゴルジ体)	17
“good” cholesterol (善玉コレステロール (→ also see <i>HDL</i> ))	39
gorilla (ゴリラ)	192
granular stratum (顆粒層)	131
granulated leukocyte (顆粒球)	120
granum (グラナ)	73
grasshopper (バッタ)	201
gravitaxis (重力走性)	114
great bustard (ノガン)	165
green algae (緑藻)	190
green laver (アオノリ)	200
green pheasant (キジ)	165
green plant without vascular system (無維管束植物)	202
green warbler finch (ムシクイフィンチ)	194
greenhouse gases (温室効果ガス)	177
Gregor Johann Mendel (メンデル)	139
grenadier (gadiform fish) (ソコダラ)	173
growth curve (成長曲線)	169
growth form (成長型)	170
growth hormone (成長ホルモン)	127, 128
guanine (グアニン)	40
guard cells (孔辺細胞)	73
gut (腸)	105
Gymnosperm (裸子植物)	190

## H

H zone (H帯)	121
habitat formation action (環境形成作用)	166
habituation (慣れ)	183
hair (毛)	148
hand bone (手骨)	197
Haptophytes (ハプト植物)	203
hatch (孵化)	183
hatched larva (孵化幼虫)	169
haversian canal (ハバース管)	106
HDL (→ see <i>high density lipoprotein</i> )	
heart (心臓)	49
heavy chain (H鎖 (重鎖))	136
heavy metal (重金属)	178
helper T cell (ヘルパー T細胞)	134
Helsinki Declaration (ヘルシンキ宣言)	205
hematopoietic stem cell (造血幹細胞)	211

- hemidesmosome (半接着斑 (ヘミデスモソーム)) ..... 25
- hemoglobin (ヘモグロビン) ..... 28
- hemophilia (血友病) ..... 159
- heptose (ヘプトース (七炭糖)) ..... 33
- herd (群れ) ..... 168
- heredity (遺伝学) ..... 43
- heterochromatin (ヘテロクロマチン) 50
- heterogamete (異形配偶子) ..... 98
- Heterokontophyta (不等毛植物) ..... 199
- Heterolobosea (ヘテロロボサ) ..... 203
- heterothermic animal (変温動物) ..... 190
- heterotroph (従属栄養) ..... 22
- heterotrophic bacteria (従属栄養細菌) ..... 188
- heterotrophic organism (従属栄養生物) ..... 71, 171
- heterozygote (ヘテロ接合体, ヘテロ) ..... 143
- hexokinase (ヘキソキナーゼ) ..... 61
- hexose (ヘキソース (六炭糖)) ..... 33
- hierarchy (階層性) ..... 92
- high density lipoprotein (HDL) (高密度リポタンパク質) ..... 39
- high energy phosphate bond (高エネルギーリン酸結合) ..... 62
- high order consumer (高次消費者) ..... 180
- hippopotamus (カバ) ..... 165
- histamine (ヒスタミン) ..... 137
- histidine (ヒスチジン) ..... 29
- histone (ヒストン) ..... 50
- Holarctic ecozone (全北区) ..... 165
- holoenzyme (ホロ酵素) ..... 60
- homeostasis (恒常性 (ホメオスタシス)) ..... 27, 122
- homeothermic animal (恒温動物) ..... 190
- homeotic gene (ホメオティック遺伝子) ..... 108
- Homo erectus* (ホモ・エレクトゥス) ..... 191
- Homo neanderthalensis* (ホモ・ネアンデルターレンシス) ..... 191
- Homo sapiens* (ホモ・サピエンス) ..... 191
- homologous chromosomes (相同染色体) ..... 90, 143
- homologous chromosomes pair (二価染色体) ..... 90
- homologue (相同器官) ..... 198
- homozygote (ホモ接合体, ホモ) ..... 143
- honeybee (ミツバチ) ..... 183
- hoop pine (ナンヨウスギ) ..... 165
- hormonal control of the menstrual cycle (性周期の調節) ..... 124
- hormone (ホルモン) ..... 28, 117
- hornwort (ツノゴケ類) ..... 200
- horse (ウマ) ..... 151
- human (ヒト) ..... 191
- human immunodeficiency virus (HIV) (エイズウイルス) ..... 137
- humans (人類) ..... 28
- humerus (上腕骨) ..... 197
- hummingbird (ハチドリ) ..... 165
- humoral immunity (体液性免疫) ..... 134
- Huntington's disease (ハンチントン病) ..... 159
- hydra (ヒドラ) ..... 97
- hydrocyanic acid potassium (青酸カリウム) ..... 67
- hydrogen (水素) ..... 28
- hydrogen bond (水素結合) ..... 31
- hydrogen peroxide (過酸化水素) ..... 57
- hydrogen peroxide degrading enzyme (過酸化水素分解酵素) ..... 59
- hydrolase (加水分解酵素) ..... 58
- hydrolyze (加水分解) ..... 38
- hydrophilic (親水性) ..... 37
- hydrophilic head (親水性頭部) ..... 38
- hydrophobic (疎水性) ..... 37
- hydrophobic domain (疎水性領域) ..... 37
- hydrophobic tail (疎水性尾部) ..... 38
- hypertonic solution (高張液) ..... 21
- hypophyseal portal blood (脳下垂体門脈) ..... 126
- hypothalamus (視床下部) ..... 118
- I**
- I band (I帯) ..... 121
- Ichthyosporea (イチチロスポレア類) ..... 203
- Ileum (回腸) ..... 25
- imago (羽化成虫) ..... 169
- immune system (免疫系) ..... 122, 130
- immune tolerance (免疫寛容) ..... 136
- immunity (免疫) ..... 130
- immunoglobulin (免疫グロブリン) ..... 136
- immunological memory (免疫記憶) ..... 135
- imperfect fungus (不完全菌類) ..... 200
- implantation (着床) ..... 104
- imprinting (刷り込み) ..... 183
- inactivation (不活性化) ..... 153
- inactive (不活性) ..... 86
- incomplete dominance (不完全優性) ..... 143
- increase rate (増加速度) ..... 169
- independence (独立) ..... 144
- individual (個体) ..... 24
- Indomalaya ecozone (東洋区) ..... 165
- induced pluripotent stem (iPS) cells (人工多能性幹細胞, iPS細胞) ..... 212
- infection (感染) ..... 55
- inflammation (ただれ) ..... 41
- inflammatory response (炎症反応) ..... 132
- influenza virus (インフルエンザウイルス) ..... 14
- information molecule (情報分子) ..... 116
- informed consent (インフォームド・コンセント) ..... 205
- infrared (赤外) ..... 74
- inhabiting conditions (生息条件) ..... 181
- inheritance (遺伝的形質) ..... 142
- inhibitor (阻害物質) ..... 60
- inner cell mass (内部細胞塊) ..... 104
- inner microtubule (中心微小管) ..... 20
- Inorganic catalysis (無機触媒反応) ..... 60
- inorganic compound (無機物) ..... 70
- inorganic environment (無機的環境) ..... 166
- inorganic matters (無機塩類) ..... 122
- inorganic substance (無機物質) ..... 71
- insecticide (殺虫剤) ..... 67
- insects (昆虫類) ..... 34
- inserted gene (導入遺伝子) ..... 207
- insertion (導入) ..... 207
- instinct (本能) ..... 183
- instinctive behavior (本能行動) ..... 183
- insulin (インスリン) ..... 68, 128
- integrin (インテグリン) ..... 26
- intelligence behavior (知能行動) ..... 183
- interaction (相互作用) ..... 167
- intercellular contact (細胞間接着) ..... 26
- intercellular junction (細胞間結合) ..... 26
- interconversion (相互変換) ..... 63
- interleukin (インターロイキン) ..... 134
- intermediate caspase (中間型カスパーゼ) ..... 110
- intermediate filament (中間径フィラメント) ..... 18
- intermediate metabolite (中間代謝産物) ..... 64
- intermediate protein (仲介タンパク質) ..... 110
- intermedin (インテルメジン) ..... 123
- intermembranous part (膜間部) ..... 66
- internal environment (内部環境) ..... 121
- internal fertilization (体内受精) ..... 102
- internal respiration (内呼吸) ..... 64
- internal worm (カイチュウ) ..... 201
- interneuron (介在神経) ..... 117
- interphase (間期) ..... 86
- interspecific competition (種間競争) ..... 167
- interspecific relationship (種間関係) ..... 167
- intestinal bacteria (腸内細菌) ..... 207
- intestinal fluid (腸液) ..... 207
- intracellular (細胞内) ..... 17
- intracellular (basal) (基部) ..... 20

intracellular organelle (細胞内小器官).....	18
intramolecular oxidoreductase (分子内酸化還元酵素).....	59
intraspecific competition (種内競争).....	168
intraspecific relationship (種内関係).....	167
intron (イントロン (介在配列)).....	52
invasive alien species (特定外来生物).....	182
invasive species (侵入種).....	182
invertebrates (無脊椎動物).....	181
ion channel (イオンチャネル).....	22
iPS cells (→ <i>see induced pluripotent stem cells</i> )	
islets of Langerhans (ランゲルハンス島).....	128
isogamete (同形配偶子).....	98
isolation (隔離).....	115
isoleucine (イソロイシン).....	29
isomerase (異性化酵素).....	58

## J

jakobida (ジャコバ類).....	203
Japan meteorological agency (気象庁).....	179
Japanese littleneck (アサリ).....	201
Java man (ジャワ原人).....	191
jelly coat (ゼリー層).....	102
juvenile form (幼若型).....	170

## K

K-T boundary (K-T境界).....	191
kangaroo (カンガルー).....	195
karyokinesis (核分裂).....	87
karyotype (核型).....	89
keratin (ケラチン).....	32
ketose (ケトース).....	33
kidney (腎臓).....	122
kidney stones (腎結石).....	41
killer T cell (キラーT細胞).....	134
kinetochore (動原体).....	88
kingdom (界).....	199
Kingdom Animalia (動物界).....	202
Kingdom Fungi (菌界).....	202
Kingdom Monera (原核生物界).....	200
Kingdom Plantae (植物界).....	201
Kingdom Protocista (原生生物界).....	201
kiwi (キウイ).....	165
knockout mouse (ノックアウトマウス).....	208
koala (コアラ).....	195
Krebs cycle (クレブス回路).....	64

## L

L-form of amino acid (L型アミノ酸).....	30
labroid (ベラ).....	173
lacrimal gland (涙腺).....	125
lactase (ラクターゼ).....	34
lactic acid (乳酸).....	64
lactic acid bacteria (乳酸菌).....	200
lactic acid fermentation (乳酸発酵).....	64
lactose (ラクトース).....	34
lagging strand (ラギング鎖).....	48
lamina (ラミナ).....	18
lamprey eel (ヤツメウナギ).....	201
lancelet (ナメクジウオ).....	201
land leech (ヤマビル).....	201
land plants (陸上植物).....	78
large ground finch (オオガラバゴスフィンチ).....	194
large intestine (大腸).....	106
larva (幼生・幼虫).....	103, 169
lateral plate (側板).....	105
law of dominance (優劣 (優性) の法則).....	143
law of independent assortment (独立の法則).....	144
law of segregation (分離の法則).....	143
LDL (→ <i>see low density lipoprotein</i> )	
leading strand (リーディング鎖).....	48
learning (学習).....	183
left atrium (左心房).....	125
left ventricle (左心室).....	125
leguminous plant (マメ科植物).....	175
leucine (ロイシン).....	29
leukotriene (ロイコトリエン).....	137
lien (脾臓).....	104
life style (生活習慣).....	157
life table (生命表).....	168
ligase (連結酵素).....	48
light chain (L鎖 (軽鎖)).....	136
light energy (光エネルギー).....	71
light saturation point (光飽和点).....	71
limbic system (辺縁系).....	118
linkage (連鎖).....	154
Linné (リンネ).....	192
lipase (リパーゼ).....	58
lipid (脂質).....	36
lipid metabolism (脂質代謝).....	39
lipolytic enzyme (脂肪分解酵素).....	59
liver (肝臓).....	122
liverworts (苔類).....	200
living cell structure (生体構造物).....	30
lizard (トカゲ).....	191
llama (ラマ).....	165

local hormone (局所ホルモン).....	117
locus (遺伝子座).....	152
logarithmic scale (対数目盛).....	169
long-chain fatty acid (長鎖脂肪酸).....	38
lophotrochozoa (冠輪動物).....	201
loupe (ルーペ).....	14
low birth rate and longevity (少子高齢化).....	170
low density lipoprotein (LDL) (低密度リポタンパク質).....	39
lower limbs (下肢).....	41
lumen subunit (内腔サブユニット).....	16
lung (肺).....	106
lung respiration (肺呼吸).....	190
luteal (黄体).....	124
luteinizing hormone (黄体形成ホルモン).....	123
lyase (脱離酵素).....	58
lycopod (ヒカゲノカズラ類).....	200
<i>Lycopodium</i> (ヒカゲノカズラ).....	200
lymph fluid (リンパ液).....	121
lymph node (リンパ節).....	131
lymph system (リンパ系).....	120
lymph vessel (リンパ管).....	121
lymphocyte (リンパ球).....	120
lysine (リシン).....	29
lysosome (リソソーム).....	17
lysozyme (リゾチーム).....	131

## M

M phase (M期).....	86
macronucleus (大核).....	91
macrophage (マクロファージ).....	120
magnolia (コブシ).....	165
maidenhair tree (イチョウ).....	200
major histocompatibility complex (MHC) (主要組織適合性複合体).....	134
malaria parasite (マラリア病原虫).....	201
malic acid (リンゴ酸).....	65
malignant tumor (悪性腫瘍).....	94
maltase (マルターゼ).....	34
maltose (マルトース).....	34
maltotriose (マルトトリオース).....	36
mammal (哺乳類).....	189
mammary gland epithelial cell (乳腺上皮細胞).....	210
mannose (マンノース).....	34
mantis (カマキリ).....	169
maple (カエデ).....	165
<i>Marchantia</i> (ゼンイゴケ).....	200
mast cell (肥満細胞 (マスト細胞)).....	136
material transportation (物質運搬).....	25, 64
matrix (マトリックス).....	25, 64
mature mRNA (成熟 mRNA).....	52



- medical practice (医療行為) ..... 206  
 medical record (カルテ) ..... 206  
 medium ground finch  
 (ガラバゴスフィンチ) ..... 194  
 medulla (髄質) ..... 122  
 medulla oblongata (延髄) ..... 118  
 megakaryocyte (巨核球) ..... 120  
 meiosis (減数分裂) ..... 89, 143  
 melanocyte (メラニン細胞) ..... 131  
 memory cell (記憶細胞) ..... 134  
 merganser (duck) (アイサ) ..... 180  
*Mesembryanthemum* (マツバギク) ..... 165  
 mesoderm (中胚葉) ..... 103  
 mesodermal organs (中胚葉性器官) ..... 105  
 mesophyll cell (葉肉細胞) ..... 73  
 messenger RNA (mRNA)  
 (伝令RNA) ..... 51  
 metabolic system (代謝系) ..... 60  
 metabolism (代謝 (メタボリズム)) ..... 57  
 metamorphosis (変態) ..... 103  
 metaphase (中期) ..... 87  
 Metazoa (後生動物) ..... 203  
 methane bacteria (メタン生成菌) ..... 201  
 methionine (メチオニン) ..... 29  
 methylation (メチル化) ..... 50  
 MHC (→ *see major histocompatibility complex*)  
 micro RNA (miRNA)  
 (マイクロRNA) ..... 52  
 micro-amounts (微量) ..... 27  
 microbe (微生物) ..... 70  
*Microcystis aeruginosa* (アオコを形成  
 するシアノバクテリアの一種) ..... 200  
 microfilament (微細繊維) ..... 18  
 micronucleus (小核) ..... 91  
 microtubule (微小管) ..... 18  
 midbrain (中脳) ..... 118  
 migration (運動) ..... 93  
 millipede (ヤスデ) ..... 201  
 mineral (ミネラル) ..... 42  
 mineral corticoid  
 (鉱質コルチコイド) ..... 123  
 Ministry of Health, Labour and  
 Welfare (厚生労働省) ..... 206  
 mitochondria (ミトコンドリア) ..... 16  
 mitochondrial RNA (mtRNA)  
 (ミトコンドリアRNA) ..... 52  
 mitotic phase (分裂期) ..... 86  
 modern human (現生人類・新人) ..... 192  
 mole (モグラ) ..... 165  
 molecular clock (分子時計) ..... 197  
 molecular phylogenetic tree  
 (分子系統樹) ..... 196  
 molecule (分子) ..... 14  
 mollusks (軟体動物) ..... 201  
 monkey (サル) ..... 164  
 monocistronic (モノシストロン性) ..... 56  
 monoclonal antibody  
 (モノクローナル抗体) ..... 209  
 monocotyledons (単子葉類) ..... 200  
 monogenic hybrid (一遺伝子雑種) ..... 144  
 monophosphate (一リン酸) ..... 40  
 monosaccharide (単糖) ..... 33  
 moon jellyfish (ミズクラゲ) ..... 201  
 moray eel (ウツボ) ..... 173  
 morning glory (アサガオ) ..... 143  
 morula (桑実胚) ..... 103  
 mosses (鮮類) ..... 200  
 mother cell (母細胞) ..... 84  
 Motoo Kimura (木村資生) ..... 195  
 motor neuron (運動神経) ..... 117  
 mRNA (→ *see messenger RNA*)  
 mucosal epithelial cell  
 (粘膜上皮細胞) ..... 13  
 mucous membrane (粘膜) ..... 131  
 multicellular organisms  
 (多細胞生物) ..... 24, 189  
 multiple alleles (複対立遺伝子) ..... 147  
 muscle (筋肉, 筋) ..... 105  
 muscle fiber (筋線維) ..... 121  
 muscle tissue (筋組織) ..... 92  
 muscular contraction (筋収縮) ..... 28  
 mutation (変異) ..... 31  
 mutualism (相利共生) ..... 167  
 myocyte (筋細胞) ..... 121  
 myofibril (筋原線維) ..... 121  
 myosatellite cell (筋衛星細胞) ..... 211  
 myosin filament  
 (ミオシンフィラメント) ..... 121  
 myotube (筋管) ..... 211  
 myotube cells (筋管細胞) ..... 211  
 Myxomycetes (変形菌) ..... 200
- N**
- N terminal (N末端) ..... 136  
 NADH (還元型ニコチンアミドアデニン  
 ジヌクレオチド) ..... 64  
 naked mole-rat (ハダカデバネズミ) ..... 184  
 nanos (ナノス) ..... 107  
 natural immunity/innate immunity  
 (自然免疫) ..... 130, 132  
 natural killer (NK) cells  
 (ナチュラルキラー細胞) ..... 133  
 natural selection (自然選択) ..... 193  
 nautilus (オウムガイ) ..... 201  
*Navicula* (フナガタケイソウ) ..... 200  
 near threatened (準絶滅危惧) ..... 181  
 Nearctic ecozone (新北區) ..... 165  
 necrosis (ネクロシス) ..... 108  
 nematocyst (刺胞) ..... 201  
 nematode (センチュウ) ..... 27  
 nematodes (線形動物) ..... 201  
 neocortex (新皮質) ..... 118  
 Neotropical ecozone (新熱帯區) ..... 165  
 nerve center of sensory (感覚中枢) ..... 118  
 nerve impulse transmission  
 (興奮の伝導) ..... 117  
 nervous system (神経系) ..... 116  
 nervous system of humans  
 (ヒトの神経系) ..... 118  
 nesting (巣づくり) ..... 183  
 neural stem cell (神経幹細胞) ..... 211  
 neural tube (神経管) ..... 105  
 neuroendocrine/neurosecretion  
 (神経分泌) ..... 116, 129  
 neuron (ニューロン) ..... 117  
 neuron cell (神経細胞) ..... 117  
 neurosecretory cell (神経分泌細胞) ..... 117  
*Neurospora* (アカパンカビ) ..... 197  
 neurotransmitter (神経伝達物質) ..... 117  
 neurula (神経胚) ..... 104  
 neutral (中性) ..... 28  
 neutral theory (中立説) ..... 195  
 neutralism (中立) ..... 167  
 neutrophil (好中球) ..... 120  
 newt (イモリ) ..... 201  
 niche (ニッチ) ..... 167  
 nicotinamide adenine dinucleotide  
 (NAD) (ニコチンアミドアデニン  
 ジヌクレオチド) ..... 64  
 night fly (ガ) ..... 197  
 night heron (ゴイサギ) ..... 180  
*Nitella* (フラスコモ) ..... 200  
 nitrate (硝酸塩) ..... 174  
 nitrate bacteria (硝酸菌) ..... 171  
 nitric acid (硝酸) ..... 81  
 nitrification (硝化) ..... 171  
 nitrifying bacteria (硝化細菌) ..... 175  
 nitrite (亜硝酸塩) ..... 174  
 nitrite bacteria (亜硝酸菌) ..... 171  
 nitrogen (窒素) ..... 70  
 nitrogen assimilation  
 (窒素同化) ..... 73, 81, 174  
 nitrogen cycle (窒素の循環) ..... 174  
 nitrogen fixing bacteria  
 (窒素固定細菌) ..... 81  
 nitrogen oxide (NO<sub>x</sub>)  
 (窒素酸化物) ..... 176  
 nitrogenase (ニトロゲナーゼ) ..... 81  
 NK cell (NK細胞) ..... 133  
*Noctiluca scintillans* (ヤコウチュウ) ..... 200  
 non germ layer organism  
 (無胚葉動物) ..... 202  
 non-biological environment  
 (非生物的環境) ..... 166

nonose (ノノース (九炭糖))	33	organ system (器官系)	25	parent generation (親 (世代))	140
nori ( <i>Pyropia tenera</i> ) (アサクサノリ)	200	organ transplant (臓器移植)	210	paries (体腔壁)	105
<i>Nostoc</i> (ネンジュモ)	200	organelle (細胞小器官)	114	partial removal (部分切除)	211
<i>Nothofagus</i> (ナンキョクブナ)	165	organic acid (有機酸)	81	partitioning gene (分節遺伝子)	108
notochord (脊索)	189	organic compound (有機物)	23	passive transport (受動輸送)	21
nuclear envelope (核膜)	15	organic particle (有機物粒子)	174	Pasteur point (パスツールポイント)	188
nuclear pore (核膜孔)	15	organic substance (有機物質)	27	pathogenicity (病原性)	207
nuclear transfer (核移植)	210	orientation (定位)	184	pathway of communication (情報伝達経路)	93
nucleariids (ヌクレアリア類)	203	ornithine cycle (オルニチン回路)	32	pea (エンドウ)	139
nuclease (核酸分解酵素)	59	<i>Oscillatoria</i> (ユレモ)	200	peacock (クジャク)	165
nucleic acid (核酸)	39	osmoregulation (浸透圧調節)	128	peat moss (ミズゴケ)	200
nucleoid (核様体)	199	osmotic pressure (浸透圧)	21	pectinase (ペクチナーゼ)	59
nucleoli (核小体)	15	osteomalacia (骨軟化症)	41	Pelobiontida (ペオビオント類)	203
nucleomorph (ヌクレオモルフ)	199	ovary (卵巣・子房)	123	penal regulation (罰則)	209
nucleosome (ヌクレオソーム)	110	oviparity (卵生)	190	<i>Penicillium</i> (アカカビ)	200
nucleotide (ヌクレオチド)	39	ovulation (排卵)	100	pentose (ペントース (五炭糖))	33
nucleus (核)	15	ovule (胚珠)	202	pepsin (ペプシン)	32
numbness (しびれ)	41	ovum (egg) (卵)	99	peptidase (ペプチダーゼ)	59
nursing-care (看護ケア)	206	oxaloacetate (オキサロ酢酸)	81	peptide bond (ペプチド結合)	28
nurturing (養育)	183	oxidase (オキシダーゼ)	59	peptone (ペプトン)	59
nutrients (栄養塩類)	173	oxidation manganese (酸化マンガン)	58	peripheral nervous system (末梢神経系)	118
nyctalopia (夜盲症)	41	oxidative enzyme (酸化酵素)	59	perivitelline space (卵囲腔)	102
<b>O</b>		oxidative phosphorylation (酸化のリン酸化反応)	66	pernicious anemia (悪性貧血)	41
oak (アラカシ)	72	oxidoreductase (酸化還元酵素)	59	peroxyacetyl nitrate (PAN) (硝酸パーオキシダーゼ)	177
object lenses (対物レンズ)	14	oxygen (酸素)	16	pesticide (農薬)	178
observation studies (観察研究)	206	oxygenic phototroph (酸素発生型光合成生物)	22	phagocyte (食細胞)	135
octopus (タコ)	201	Oxymonads (オキシモナス類)	203	phagocytizing (貪食)	109
octose (オクトース (八炭糖))	33	oxytocin (オキシトシン)	123	phagocytosis (食作用)	132
Okazaki fragment (岡崎フラグメント)	48	ozone (オゾン)	178	pharmaceutical affairs act (薬事法)	206
old age form (老齢型)	170	ozone hole (オゾンホール)	178	phenotype (表現型)	141
<i>On The Origin of Species</i> (種の起源)	193	ozone layer (オゾン層)	189	phenylalanine (フェニルアラニン)	29
oocyte (卵母細胞)	99	<b>P</b>		phenylketonuria (フェニルケトン尿症)	32, 159
oogonium (卵原細胞)	99	P-T boundary (P-T境界)	190	phosphodiester bond (リン酸ジエステル結合)	44
oomycetes (卵菌類)	203	p53 gene (p53 遺伝子)	95, 110	phosphoenolpyruvic acid (ホスホエノールピルビン酸)	61
operation (手術)	206	pacemaker (ペースメーカー)	125	phosphofructokinase (ホスホフルクトキナーゼ)	61
operation organs (作動体)	119	pair rule gene (ペアルール遺伝子)	108	phospholipid (リン脂質)	20, 37
operator (オペレーター)	55	Paleartic ecozone (旧北区)	165	phosphoric acid (リン酸)	37
operon (オペロン)	56	Paleotropical ecozone (旧熱帯区)	165	phosphorus (P) (リン)	174
Opisthokonta (オピストコント (後方鞭毛生物))	203	palisade mesophyll (さく状組織)	73	phosphorus cycle (リンの循環)	174
opsonization (オプソニン化)	132	pancreas (膵臓)	123	phosphorylation (リン酸化)	54
optical microscope (光学顕微鏡)	14	pancreatic juice (膵液)	34	photochemical oxidants (光化学オキシダント)	177
optimal pH (至適pH)	60	parabasalids (パラバサリア類)	203	photochemical smog (光化学スモッグ)	176
optimal temperature (至適温度)	60	paracrine (傍分泌 (パラ分泌))	116, 117	photoheterotroph (酸素不発生型光合成生物)	23
optimum pH (最適pH)	60	<i>Paramecium</i> (ゾウリムシ)	12	photoperiodicity (光周性)	166
optimum temperature (最適温度)	60	parasite (寄生物)	201	photorespiration (光呼吸)	79
oral groove (細胞口)	91	parasitic bee (寄生バチ)	169		
orangutan (オランウータン)	165	parasitism (寄生)	168		
order (目)	199	parasympathetic nerve (副交感神経)	119, 124		
organ (器官)	24	parathormone (パラトルモン)	123		
		parathyroid (副甲状腺)	123		

photosynthesis (光合成).....	71
photosynthesis pigment (光合成色素).....	74
photosynthetic bacteria (光合成細菌).....	171
photosystem (光化学系).....	76
phototroph (光合成生物).....	22
phylogenetic tree (系統樹).....	195
phylum (門).....	199
physiological death (生理死).....	169
phytol group (フィトール基).....	75
phytoplankton (植物プランクトン).....	70
pigeon (ハト).....	201
pillar subunit (柱状サブユニット).....	16
pineapple (パイナップル).....	165
<i>Pinnularia</i> (ハネケイソウ).....	200
pituitary gland (脳下垂体).....	118
planarian (プラナリア).....	197
plankton (プランクトン).....	27
plasma cell (形質細胞).....	134
plasmodesma (原形質連絡).....	15
plasmolysis (原形質分離).....	21
plastid (色素体).....	19
plastocyanin (プラストシアニン).....	76
plastoquinone (プラストキノン).....	76
platypus (カモノハシ).....	165
pleura (肋膜).....	105
pluripotent stem cell (多能性幹細胞).....	212
pod (さや).....	140
polar body (極体).....	99
pole cells (極細胞).....	107
poly(A) tail (ポリ A テイル/ポリ A 配列).....	52
polycistronic mRNA (ポリシストロン性 mRNA).....	56
polyclonal antibody (ポリクローナル抗体).....	209
polymorphonuclear neutrophil leukocyte (多核白血球).....	120
polypeptide (ポリペプチド).....	136
polysaccharide (多糖類).....	33
<i>Polytrichum</i> (スギゴケ).....	200
population density (個体群密度).....	168
population genetics (集団遺伝学).....	194
population observation studies (集団観察研究).....	206
population pyramid (人口ピラミッド).....	170
porifer (海綿動物).....	201
post-translational modification (翻訳後修飾).....	54
posterior (後葉).....	123
potassium (カリウム).....	21
potential energy (ポテンシャルエネルギー).....	66
pre-implantation genetic diagnosis (着床前診断).....	161
predation (捕食).....	167
predator (捕食者).....	167
prenatal genetic screening (出生前診断).....	161
prepupae (前蛹).....	169
prey (被食者).....	167
prey-predator relationship (食う食われるの関係).....	167
prickle cell (有棘細胞).....	131
primary consumer (一次消費者).....	172
primary oocyte (一次卵母細胞).....	99
primary polar body (第一極体).....	99
primary spermatocyte (一次精母細胞).....	99
primary structure (一次構造).....	28
primary urine (原尿).....	122
primase (プライマーゼ).....	48
primer (プライマー).....	48
primitive ectoderm (原始外胚葉).....	104
primitive endoderm (原始内胚葉).....	104
primitive life (原始生命体).....	188
primordial follicle (原始濾胞).....	100
primordial germ cell (始原生殖細胞).....	99
prion (プリオン).....	32
processing of tail (末端の修飾).....	52
producer (生産者).....	70, 171
productivity pyramid (生産力ピラミッド).....	172
products (生成物).....	58
progesterone (プロゲステロン).....	124
prokaryote (原核生物).....	13
prokaryotic cell (原核細胞).....	13
prolactin (プロラクチン).....	123
proliferation (増殖).....	94
proline (プロリン).....	29
promoter (プロモーター).....	49
prophase (前期).....	87
protea (プロテア).....	165
protein (タンパク質).....	28
proteolytic enzyme (タンパク質分解酵素).....	59
prothrombin (プロトロンビン).....	132
protist (原生生物).....	167
proto-oncogene (がん原遺伝子).....	94
protobiont (原始生物).....	23
Protochordate (原索動物).....	201
protoceol (原体腔).....	201
protoceolier (原体腔動物).....	202
protostome (旧口動物).....	201
protozoan (原生動物).....	23
<i>Ptilotum nudum</i> (マツバラン).....	200
Pteridophyte (シダ植物).....	190

puberty (思春期).....	100
puffer fish (フグ).....	180
pump (ポンプ).....	21
pupa (さなぎ).....	169
pupil (瞳孔).....	125
purine base (プリン塩基).....	32
purine-pyrimidine ratio (プリン：ピリミジン比).....	44
purple sulfur bacteria (紅色硫黄細菌).....	171
pyrimidine base (ピリミジン塩基).....	40
pyruvate kinase (ピルビン酸キナーゼ).....	61
pyruvic acid (ピルビン酸).....	64
python (ニシキヘビ).....	165

## Q

quail (ウズラ).....	14
quaternary structure (四次構造).....	28
quinone cycle (キノン回路).....	67

## R

rabbit (ウサギ).....	167
raccoon (アライグマ).....	165
raccoon dog (タヌキ).....	165
rackets (くる病).....	41
radius (とう骨).....	197
Raphidophytes (有中心粒太陽虫).....	203
rattlesnake (ガラガラヘビ).....	165
ray (エイ).....	201
reabsorption (再吸収).....	122
reactant (反応物).....	58
reaction (反作用).....	166
reaction catalyst (反応触媒).....	30
reaction energy (反応エネルギー).....	58
reaction rate (反応速度).....	60
reaction specificity (反応特異性).....	57
recapitulation theory (発生反復説).....	198
receptor (受容体, レセプター).....	93, 116
receptor organ (受容器).....	119
recessive (劣性).....	143
recessive gene (劣性遺伝子).....	143
recessive trait (劣形質).....	143
recombination value (組換え価).....	157
rectum (直腸).....	106
red algae (紅藻類).....	200
red blood cell (赤血球).....	120
Red List (レッドリスト).....	180
red pine (アカマツ).....	72
red tide (赤潮).....	178
reductase (還元酵素).....	77
reduction (削減).....	68
reduction reaction (還元反応).....	78

reduction-oxidation reaction (酸化還元反応).....	77	ribulose-5-phosphate (リブロース-5リン酸).....	77	sea urchin (ウニ).....	201
refinement (改善).....	206	ribulose-1,5-bisphosphate (リブロース-1,5-ビスリン酸).....	78	seagull (カモメ).....	180
regeneration (再生).....	211	rice (イネ).....	72	seaweed (海藻).....	180
regenerative medicine (再生医療).....	212	right atrium (右心房).....	125	second filial generation (雑種第二世代 (F <sub>2</sub> )).....	140
regulation of blood circulation (血液循環の調節).....	125	right ventricle (右心室).....	125	secondary consumer (二次消費者).....	172
regulation of respiratory exhalation (呼吸運動の調節).....	124	river mouth (estuary) (河口).....	173	secondary lysosome (二次リソソーム).....	17
rejection response (拒絶反応).....	210	RNA (→ see <i>ribonucleic acid</i> )		secondary oocyte (二次卵母細胞).....	99
relative value (相対値).....	60	RNA ligase (RNA 連結酵素 (RNA リガーゼ)).....	59	secondary polar body (第二極体).....	99
release (放出).....	21	RNA polymerase (RNA ポリメラーゼ).....	50	secondary spermatocyte (二次精母細胞).....	99
renal corpuscle (腎小体).....	122	RNase (RNA アーゼ).....	59	secondary structure (二次構造).....	31
renal failure (腎不全).....	41	root (根).....	73	secretion (分泌).....	93
renal pelvis (腎盂).....	122	root nodule (根粒).....	81	secretory vesicle (分泌小胞).....	17
replacement (代替).....	206	rose (バラ).....	165	sedimentation (堆積).....	175
replication (複製).....	47	rough-surfaced endoplasmic reticulum (粗面小胞体).....	16	seed (種子).....	97
replication fork (複製フォーク).....	47	royal water lily (オオオニバス).....	165	seed plant (種子植物).....	18
replication origin (複製起点).....	47	rRNA (→ see <i>ribosomal RNA</i> )		seed-coats (種皮).....	141
reproduction reaction (再生反応).....	78	rubber tree (ゴムノキ).....	165	segment polarity gene (セグメントポラリティー遺伝子).....	108
reproductive caste (生殖カースト).....	184	rubisco enzyme (RuBisCO) (ルビスコ).....	74, 78	segregation ratio (分離比).....	141
reproductive gland (生殖腺).....	123	runoff (流出).....	175	selective permeability (選択的透過性).....	21
reproductive stage (生殖期).....	170			self-fertilization (自家受精).....	142
reproductive system (生殖系).....	105			self-maintenance (自己維持).....	114, 115
reptile (爬虫類).....	189			semiconservative replication (半保存的複製).....	47
resolution (分解能).....	13			semipermeable membrane (半透膜).....	21
respiration (呼吸 (特に内呼吸)).....	64			sensory nerve (感覚神経).....	126
respiratory chain (呼吸鎖).....	66			sensory organ (感覚器).....	119
respiratory excursion (呼吸運動).....	125			sequence (配列).....	28
respiratory system (呼吸系).....	105			serine (セリン).....	29
response (反応).....	93			sex chromosome (性染色体).....	150
resynthesis (再合成).....	96			sex ratio (性比).....	151
retinol (レチノール).....	41			sex-determining region of Y chromo- some (SRY) gene (SRY 遺伝子).....	152
retortamonads (レトルタモナス類).....	203			sex-linked genetic disorder (伴性遺伝病).....	159
retroviral (レトロウイルス).....	46			sex-linked inheritance (伴性遺伝).....	152
reverse transcription (逆転写).....	46			sexual reproduction (有性生殖).....	97, 98
<i>Rhizobium</i> (根粒菌).....	82			shade leaf (陰葉).....	72
<i>Rhizopus</i> (クモノスカビ).....	200			shade plant (陰生植物).....	72
Rhodophyta (紅色植物).....	199			shade tree (陰樹).....	72
riboflavin (リボフラビン).....	41			shark (サメ).....	167
ribonucleic acid (RNA) (リボ核酸).....	39, 44			shiitake (シイタケ).....	200
ribonucleoside diphosphate (NDP) (リボヌクレオシド二リン酸).....	40			short-beaked echidna (ハリモグラ).....	165
ribonucleoside monophosphate (NMP) (リボヌクレオシド一リン酸).....	40			short-winded (息切れ).....	41
ribonucleoside triphosphate (NTP) (リボヌクレオシド三リン酸).....	40			shrimp (エビ).....	174
ribonucleotide (リボヌクレオチド).....	39			sickle cell anemia (鎌状赤血球貧血症).....	31, 158
ribose (リボース).....	33			side chain (側鎖).....	28
ribosomal RNA (rRNA) (リボソーム RNA).....	51			signal molecules (シグナル分子).....	93
ribosome (リボソーム).....	16			signal transduction (情報伝達).....	28
ribosome protein (リボソームタンパク質).....	51				

## S

S phase (S期).....	86	sea anemone (イソギンチャク).....	201
safety assessment (安全性評価).....	207	sea cucumber (ナマコ).....	201
sago palm (ソテツ).....	200	sea lettuce (アオサ).....	200
saliva (唾液).....	34	sea snail (巻貝).....	180
salivary gland (唾腺).....	125	sea squirt (ホヤ).....	201
sand star (starfish) (ヒトデ).....	173	sea swallow (アジサシ).....	180
sandworm (ゴカイ).....	201		
<i>Saprolegnia</i> (ミズカビ).....	200		
sarcomeres (サルコメア).....	121		
sardine (イワシ).....	173		
<i>Sargassum</i> (ホンダワラ).....	200		
saturated fatty acid (飽和脂肪酸).....	38		
saxifrage (ユキノシタ).....	21		
scale (鱗).....	190		
scanning electron microscope (走査電子顕微鏡).....	14		
Schwann cell (シュワン細胞).....	117		
scomber (mackerel) (サバ).....	173		
scorpion (サソリ).....	201		
scouring rush (トクサ類).....	200		
screw pine (タコノキ).....	165		
scurvy (壊血病).....	41		

single nucleotide polymorphism (SNP) (一塩基多型)	53	sponge (カイメン)	201	sympatric distribution (同所的分布)	194
sinoatrial node (洞房結節)	125	spongy mesophyll (海綿状組織)	73	synapse (シナプス)	117
site of ATP pump (ATP 工場)	15	spore (胞子)	200	synapsis (対合)	90
site of much protein synthesis (タンパク質工場)	15	sporogenesis (胞子生殖)	97	synthesis (合成)	32
skeletal muscle (骨格筋)	106	sporozoa (胞子虫類)	201	synthetic pathway (合成系)	77
skeleton (骨格)	121	squid (イカ)	173		
skin (皮膚)	130	squirrel monkey (リスザル)	165	<b>T</b>	
skin cell (皮膚細胞)	49	stable form (安定型)	170	T cell (T細胞)	120
skunk (スカンク)	165	standing crop (現存量)	173	T cell receptor (TCR) (T細胞受容体)	134
sloth (ナマケモノ)	165	starch (デンプン)	34	tapeworm (サナダムシ)	201
slug (ナメクジ)	201	start codon (開始コドン)	53	target cell (標的細胞)	115
small intestine (小腸)	106	stem cell (幹細胞)	211	target organ (標的器官)	126
small-intestinal epithelium (小腸上皮)	211	stem length (草丈)	141	tarsier (メガネザル)	165
smooth muscle (平滑筋)	106	<i>Stemonitis fusca</i> (ムラサキホコリ)	200	taxis (走性)	182
smooth muscle cells (平滑筋細胞)	92	steroid (ステロイド)	37	taxonomy (分類)	198
smooth-surfaced endoplasmic reticulum (滑面小胞体)	16	steroid hormone (ステロイド系ホルモン)	123	TCA cycle (TCA回路)	64
snake (ヘビ)	201	stoma (気孔)	73	TCR (→ see <i>T cell receptor</i> )	
social animal (社会性動物)	184	stomach (胃)	106	telomerase (テロメラーゼ)	111
social insect (社会性昆虫)	184	stomatitis (口内炎)	41	telomere (テロメア)	111
sodium (ナトリウム)	21	stop codon (終止コドン)	53	telophase (終期)	87
sodium-potassium pump (ナトリウムポンプ)	21	stramenopila (ストラメノパイル)	204	template RNA (鋳型RNA)	111
soil (土壌)	78	stratum spinosum (有棘層)	130	tendon (腱)	121
solar energy (太陽エネルギー)	70	striated muscle (横紋筋)	106	terminal (えき生)	141
soldier ant (兵アリ)	184	stroma (ストロマ)	73	termite (シロアリ)	184
somatic cell (体細胞)	87	subcutis (皮下組織)	130	terrestrial life (陸上生活)	190
somatic cell cloning (体細胞クローン)	210	substance metabolism (物質代謝)	57	tertiary consumer (三次消費者)	173
somatic cell division (体細胞分裂)	86, 89	substrate (基質)	57	tertiary structure (三次構造/立体構造)	28
somatic nervous system (体性神経系)	119	substrate binding site (基質結合部位)	58	test cross (検定交雑)	144
somite (体節)	108	substrate complex (基質複合体)	58	testis (精巣)	123
soybean (ダイズ)	81	substrate specificity (基質特異性)	57	tetrapod (四足類)	202
speciation (種の分化)	195	subunit (サブユニット)	16	tetrose (テトロース (四炭糖))	33
species (種・生物種)	199	succinic acid (コハク酸)	65	The Cenozoic (新生代)	191
sperm (精子)	99	succinyl-CoA (スクシニル CoA)	65	the genetic code (コドン表)	53
sperm nucleus (精子核)	102	sucrase (スクラーゼ)	34	The Holocene (完新世)	192
sperm receptors (精子受容体)	102	sucrose (スクロース)	34	The Neanderthal (ネアンデルタール人)	191
spermatid (精細胞)	99	sulfur (イオウ)	42	The Paleozoic Devonian (古生代デボン紀)	190
spermatogonium (精原細胞)	99	sulfur bacteria (硫黄細菌)	171	The Pleistocene (更新世)	192
sphincter muscle of urinary bladder (膀胱括約筋)	125	sulfur oxides (SO <sub>x</sub> ) (硫黄酸化物)	176	The Quaternary (第四紀)	192
spiculum (骨片)	103	sulfuric acid (硫酸)	177	The Tertiary (第三紀)	192
spider (クモ)	165	sun compass (太陽コンパス)	185	theory of isolation (隔離説)	194
spider monkey (クモザル)	165	sun leaf (陽葉)	72	theory of mutation (突然変異説)	193
spinal cord (脊髄)	118	sun plant (陽生植物)	72	thermoregulation (体温調節)	126
spindle (紡錘体)	88	suppressor gene (抑制遺伝子)	148	thiamine (チアミン)	41
spindle fiber (紡錘糸)	88	surrogate mother (代理母)	208	Thomas Hunt Morgan (モーガン)	149
spine (脊椎)	189	survival curve (生存曲線)	168	threatened (絶滅危惧)	180
spirochete (スピロヘータ)	24	survival of the fittest (適者生存)	193	three major nutrient (三大栄養素)	28
splicing (スプライシング)	52	swallow (ツバメ)	201	threonine (スレオニン)	29
		sweat gland (汗腺)	128	thrombin (トロンビン)	132
		swelling (むくみ)	41	thylakoid (チラコイド)	19, 73
		symbiosis (共生)	24		
		symmetry axis (対称軸)	45		
		sympathetic nerve (交感神経)	119, 124		

thylakoid lumen (チラコイド内腔).....	76
thylakoid membrane (チラコイド膜).....	74
thymine (チミン).....	40
thyroid gland (甲状腺).....	106
thyrotrophin (甲状腺刺激ホルモン).....	123
thyroxin (チロキシン).....	127
Ti plasmid (Ti プラスミド).....	207
tight junction (密着結合).....	25
tissue (組織).....	24
tissue fluid (組織液).....	121
tissue stem cell (組織幹細胞 (体性幹細胞)).....	212
TLR (→ see <i>Toll-like receptor</i> ).....	
Toll-like receptor (TLR) (Toll 様受容体).....	132
totipotent stem cell (全能性幹細胞).....	212
toxicity (毒性).....	207
trachea (道管).....	78
trachea breathing (気管呼吸).....	64
transamination (アミノ基転移).....	63
transcription (転写).....	46, 49
transcription factor (転写因子).....	49
transcriptional regulation (転写制御).....	49
transfer RNA (tRNA) (運搬 RNA・転移 RNA).....	52
transferase (転移酵素).....	58
transgenic mouse (トランスジェニックマウス).....	208
translated region (翻訳領域).....	56
translation (翻訳).....	46
transmission electron microscope (透過電子顕微鏡).....	14
transpiration (蒸散).....	78
transplant (移植).....	208
transport vesicle (輸送小胞).....	17
treatments for differentiation (分化処理).....	212
tree fern (ヘゴ).....	200
triacylglycerol (トリアシルグリセロール).....	37
trial and error (試行錯誤).....	183
tricarboxylic acid cycle (トリカルボン酸回路).....	64
<i>Trichoerca</i> (ネズミワムシ).....	201
trichocyst (毛胞).....	211
trimer (三量体).....	31
triphosphate (三リン酸).....	16
triplet (トリプレット).....	53
triploblastic (三胚葉).....	201
triploblastica (三胚葉動物).....	202
tRNA (→ see <i>transfer RNA</i> ).....	

trochelmintes (輪形動物).....	201
trophoblast (栄養膜).....	104
tropical rain forest (熱帯雨林).....	171
trypanosome (トリパノゾーマ).....	201
trypsin (トリプシン).....	32
tryptophan (トリプトファン).....	29
tubule (細尿管).....	129
tumor necrosis factor (腫瘍壊死因子).....	110
tumor-suppressor gene (がん抑制遺伝子).....	94
tuna (マグロ).....	173
turban shell (サザエ).....	201
turkey (シチメンチョウ).....	165
turtle (カメ).....	197
tyrosine (チロシン).....	29

## U

ulna (尺骨).....	197
ultrasonography (echography) (超音波検査 (エコー)).....	161
ultraviolet (紫外).....	74
ultraviolet radiation (紫外線).....	177
undifferentiated stage (未分化状態).....	212
unfertilized egg (未受精卵).....	210
unicellular (単細胞).....	24
unicellular organism (単細胞生物).....	24
unipotent stem cell (単能性幹細胞).....	212
univalve shells (巻貝類).....	201
unlearned behavior (生得的行動).....	183
unsaturated fatty acid (不飽和脂肪酸).....	38
untranslated region (非翻訳領域).....	56
uplift (隆起).....	175
uracil (ウラシル).....	40
urea (尿素).....	32
urea cycle (尿素回路).....	32
urea-degrading enzyme (尿素分解酵素).....	59
urease (ウレアーゼ).....	59
urine (尿).....	122
uriniferous duct (輸尿管).....	122
uterine tube (卵管).....	100
uterus (子宮).....	104

## V

vacuole (液胞).....	19
valine (バリン).....	29
variable region (可変領域).....	136
vascular bundle (維管束).....	73

vascular plant (維管束植物).....	73
vasopressin (バソプレシン).....	129
vegetarian finch (ハシブトフィンチ).....	194
vegetative pole (植物極).....	103
vegetative reproduction (栄養生殖).....	97
vein (静脈).....	120
veins of leaf (葉脈).....	73
venus flower basket (カイロウドウケツ).....	201
vertebrate (脊椎動物).....	189
vertical split plane (縦裂面).....	89
vestigial organ (痕跡器官).....	197
villi (柔毛).....	106
visible light (可視光).....	74
vitamin (ビタミン).....	28, 41
vitelline envelope (卵膜).....	102
viviparity (胎生).....	190
<i>Volvox</i> (ボルボックス).....	200
vorticella (ツリガネムシ).....	201
vulnerable (VU) (絶滅危惧II類).....	182

## W

wall of uterus (子宮壁).....	104
wasp (アシナガバチ).....	169
water flea (ミジンコ).....	201
water pollution (水質汚濁).....	178
water-soluble (水溶性).....	21
water-soluble vitamin (水溶性ビタミン).....	41
wavelength (波長).....	74
web (水かき).....	108
wetland (湿地).....	190
whale (クジラ).....	197
whisk fern (マツバラン類).....	200
white blood cell (白血球).....	120
wild (野生).....	181
wild type (野生型).....	208
without germ layer (無胚葉).....	201
withy (willow) (ヤナギ).....	165
working caste (労働カースト).....	184

## X-Z

xylose (キシロース).....	34
yeast (酵母).....	64
Z disc (or Z line) (Z膜).....	121
zebra (シマウマ).....	165
zonula adherens (接着帯).....	25
zooplankton (動物プランクトン).....	173
zwitterion (両性イオン).....	28
zygomycota (接合菌類).....	200