

AP Biology

Glossary · · every term in the course, A–Z

English	Pinyin
acid	suān
 activation energy	huó huà néng
active	zhǔ dòng de
 active site	huó xìng wèi diǎn
 Active transport	zhǔ dòng yùn shū
 adaptations	shì yìng
 Adhesion	fù zhuó lì
 ADP	èr lín suān xiàn gān
aerobic	yǒu yǎng de
Agriculture	nóng yè
allele	děng wèi jī yīn
 allele frequencies	děng wèi jī yīn pín lǜ
allopatric speciation	yì yù wù zhǒng xíng chéng
allosteric regulation	bié gòu tiáo jié
allosteric site	bié gòu wèi diǎn
alternative splicing	kě biàn jiǎn jiē
Amino	ān jī
amino acid	ān jī suān
 amplification	fàng dà

English	Pinyin
amplifies	kuò zēng
anabolic	hé chéng dài xiè de
 anaerobic respiration	wú yǎng hū xī
anaphase	hòu qī
 aneuploidy	fēi zhěng bèi xìng
 antibiotic resistance	kàng shēng sù nài yào xìng
{ } anticodon	fǎn mì mǎ zi
↕ antiparallel	fǎn píng xíng de
 apoptosis	xì bāo diào wáng
 artificial selection	rén gōng xuǎn zé
asexual reproduction	wú xìng shēng zhí
 ATP	xiàn gān sān lín suān
 banded iron formations	tiáo dài zhuàng tiě jiàn zào
base	jiǎn
 biodiversity	shēng wù duō yàng xìng
biogeography	shēng wù dì lǐ xué
 Biotechnology	shēng wù jì shù
blood glucose	xuè táng
body plan	tǐ xíng mó shì
bottleneck effect	píng jǐng xiào yìng
calcium ions	gài lí zi

English	Pinyin
 Calvin cycle <i>/ˈkælvɪn ˈsaɪkl/</i>	kǎ ěr wén xún huán
 cancer <i>/ˈkænsə/</i>	ái zhèng
cap	mào zi jié gòu
capillary action	máo xì zuò yòng
 Carbohydrates <i>/ˌkɑːbəʊˈhaɪdrɪts/</i>	tàn shuǐ huà hé wù
 carbon <i>/ˈkɑːbən/</i>	tàn
carbon fixation	tàn gù dìng
Carboxyl <i>/ˈkɑːbɒksɪl/</i>	suō jī
 carrier <i>/ˈkæriə/</i>	zài tǐ
Carrier proteins	zài tǐ dàn bái
 carrying capacity <i>/ˈkæriŋ kəˈpæsɪti/</i>	chéng zài lì
catabolic	fēn jiě dài xiè de
catalase <i>/ˈkætəleɪz/</i>	guò yǎng huà qīng méi
 catalyst <i>/ˈkætəlist/</i>	cūi huà jì
cell <i>/sel/</i>	xì bāo
 cell cycle <i>/sel ˈsaɪkl/</i>	xì bāo zhōu qī
cell differentiation	xì bāo fēn huà
cell division	xì bāo fēn liè
cell membrane <i>/sel ˈmembren/</i>	xì bāo mó
cell wall <i>/sel wɔːl/</i>	xì bāo bì
cellular resources	xì bāo zī yuán

English	Pinyin
 cellular respiration <i>/ˈseljʊlə ˌrespiˈreɪʃn/</i>	xì bāo hū xī
 Cellulose <i>/ˈseljuːləʊs/</i>	xiān wéi sù
change <i>/tʃeɪndʒ/</i>	biàn huà
Channel proteins	tōng dào dàn bái
 checkpoints <i>/ˈtʃekpɔɪnts/</i>	jiǎn chá diǎn
chemical formula <i>/ˈkemɪkl ˈfɔːmjʊlə/</i>	huà xué shì
chemical reactions <i>/ˈkemɪkl riˈækʃnz/</i>	huà xué fǎn yìng
chemiosmosis <i>/ˌkemiəzˈməʊsɪs/</i>	huà xué shèn tòu
chi-square test	kǎ fāng jiǎn yàn
 chlorophyll <i>/ˌklɔːrəʊˈfɪl/</i>	yè lǜ sù
chloroplast <i>/ˈklɔːrəʊplæst/</i>	yè lǜ tǐ
Cholesterol <i>/kəˈlestərɒl/</i>	dǎn gù chún
chromosomal mutation	rǎn sè tǐ tū biàn
chromosomes <i>/ˈkrəʊməsəʊmz/</i>	rǎn sè tǐ
cladogram	fēn zhī tú
climate change <i>/ˈklaɪmət tʃeɪndʒ/</i>	qì hòu biàn huà
cloning	kè lóng
 codominance <i>/ˈkəʊdəmɪnəns/</i>	gòng xiǎn xìng
 codon <i>/ˈkəʊdɒn/</i>	mì mǎ zi
coenzyme <i>/ˌkəʊˈenzaim/</i>	fǔ méi
cofactor	fǔ yīn zi

English	Pinyin
 Cohesion <i>/kəʊ'hi:ʒn/</i>	nèi jù lì
 coloration <i>/,kʌlə'reɪʃn/</i>	tǐ sè
commensalism	piān lì gòng shēng
 common ancestor <i>/'kɒmən 'ænsestə/</i>	gòng tóng zǔ xiān
common ancestry	gòng tóng zǔ xiān
 community <i>/kə'mju:nɪti/</i>	qún luò
community structure	qún luò jié gòu
 compartmentalization <i>/kɒmpɑ:t,mentəlaɪ'zeɪʃn/</i>	qū shì huà
 compartments <i>/kəm'pɑ:tmənts/</i>	qū shì
 competition <i>/,kɒmpə'tɪʃn/</i>	jìng zhēng
Competitive inhibition	jìng zhēng xìng yì zhì
 complementary base pairing <i>/,kɒmplɪ'mentəri beɪs 'peərɪŋ/</i>	hù bǔ jiǎn jī pèi duì
 concentration gradient <i>/,kɒnsən'treɪʃn 'greɪdɪənt/</i>	nóng dù tī dù
 condensed by wrapping around proteins called histones <i>/kən'denst baɪ 'ræprɪŋ ə'raʊnd 'prəʊti:nz kə:ld 'hɪstəʊnz/</i>	zǔ dàn bái
conserved	bǎo shǒu de
<i>/kən'sɜ:vð/</i>	
 constant input of free energy <i>/'kɒnstənt 'ɪnpʊt ɒv fri: 'enədʒi/</i>	zì yóu néng
 consumers <i>/kən'su:məz/</i>	xiāo fèi zhě
contractile vacuole	shōu suō pào
convergent evolution	qū tóng jìn huà

English	Pinyin
coupled reaction	ǒu lián fǎn yìng
covalent bonds <i>/'kəʊvələnt bɒndz/</i>	gòng jià jiàn
cristae <i>/'krɪsti:/</i>	jǐ
 crossing over <i>/'krɒsɪŋ 'əʊvə/</i>	jiāo chā hù huàn
 cyanobacteria <i>/,saɪə,nɒbək'tɪərɪə/</i>	lán xì jūn
cyclic AMP <i>/'saɪklɪk ,eɪ em 'pi:/</i>	huán lín suān xiàn gān
cyclin-dependent kinases	zhōu qī dàn bái yī lài xìng jī méi
cyclins	zhōu qī dàn bái
 cytokinesis <i>/,saɪtəkə'ni:sis/</i>	bāo zhì fēn liè
Darwin	dá ěr wén
daughter cells <i>/'dɔ:tə selz/</i>	zì xì bāo
decomposers <i>/,di:kəm'pəʊzəz/</i>	fēn jiě zhě
 Dehydration synthesis <i>/,di:haɪ'dreɪʃn 'sɪnθəsis/</i>	tuō shuǐ hé chéng
denaturation	biàn xìng
 denature <i>/'denətʃə/</i>	biàn xìng
denatured <i>/'denətʃəd/</i>	biàn xìng
 density-dependent <i>/'densɪti dɪ'pendənt/</i>	mì dù zhì yuē
 density-independent <i>/'densɪti ,ɪndɪ'pendənt/</i>	fēi mì dù zhì yuē
development <i>/dɪ'veləpmənt/</i>	fā yù
 differential gene expression <i>/,dɪfə'renʃl dʒi:n ek'spreʃn/</i>	chā yì jī yīn biǎo dá

English	Pinyin
differential reproductive success	fán zhí chéng gōng
☞ diffusion	kuò sàn
☉ diploid	èr bèi tǐ
dipole	ǒu jí
direct contact	zhí jiē jiē chù
↗ directional selection	dìng xiàng xuǎn zé
▢ disaccharide	èr táng
disasters	zāi hài
disease	jí bìng
↗ disruptive selection	fēn liè xuǎn zé
disturbances	gān rǎo
divergent evolution	qū yì jìn huà
⚙ diversity	duō yàng xìng
DNA	tuō yǎng hé táng hé suān
DNA methylation	DNA DNA jiǎ jī huà
🧬 DNA polymerase	DNA DNA jù hé méi
DNA sequencing	DNA DNA cè xù
↑ dominant	xiǎn xìng
🌀 double helix	shuāng luó xuán
double membranes	shuāng céng mó
🌿 ecological succession	shēng tài yǎn tì

English	Pinyin
ecosystem services	shēng tài xì tǒng fú wù
🌿 ecosystems	shēng tài xì tǒng
efficiency	xiào lǜ
electrochemical gradient	diàn huà xué tī dù
⚡ electron transport chain	diàn zǐ chuán dì liàn
electronegative	diàn fù xìng qiáng de
⚗ elements	yuán sù
elongation	yán shēn
emergent properties	yǒng xiàn xìng zhì
endergonic reaction	xī néng fǎn yìng
📥 Endocytosis	bāo tūn zuò yòng
🏠 endomembrane system	nèi mó xì tǒng
🏢 endoplasmic reticulum	nèi zhì wǎng
📦 endosymbiosis	nèi gòng shēng
📖 endosymbiotic theory	nèi gòng shēng xué shuō
energy pyramid	néng liàng jīn zì tǎ
engulfed	tūn shì
↻ entropy	shāng
🌍 environment	huán jìng
environmental change	huán jìng biàn huà
environmental pressures	huán jìng yā lì

English	Pinyin
 enzyme <i>/ˈenzaim/</i>	méi
epigenetic	biǎo guān yí chuán de
epistasis <i>/ɪpɪˈstaːsɪz/</i>	shàng wèi xiào yìng
eukaryotes <i>/ˈjuːkəriəʊts/</i>	zhēn hé shēng wù
eukaryotic <i>/juːkəriˈɒtɪk/</i>	zhēn hé de
Evaporative cooling	zhēng fā lěng què
 evolution <i>/ɪvəˈluːʃn/</i>	jìn huà
exergonic reaction	fàng néng fǎn yìng
 Exocytosis <i>/eg,zɒsɪˈtəʊsɪs/</i>	bāo tǔ zuò yòng
[] exons <i>/egˈzɒnz/</i>	wài xiǎn zi
 exponential growth <i>/ˌeksˈpəˈnenʃl grəʊθ/</i>	zhǐ shù zēng zhǎng
extinction <i>/ekˈstɪŋkʃn/</i>	miè jué
 facilitated diffusion <i>/fəˈsɪlɪteɪtɪd dɪˈfjuːʒn/</i>	yì huà kuò sàn
far-reaching	shēn yuǎn de
fats <i>/fæts/</i>	zhī fáng
fatty acids <i>/ˈfæti ˈæsɪdz/</i>	zhī fáng suān
 Feedback <i>/ˈfiːdbæk/</i>	fǎn kuì
feedback inhibition	fǎn kuì yì zhì
feedback loop <i>/ˈfiːdbæk luːp/</i>	fǎn kuì huí lù
feedback mechanisms	fǎn kuì jī zhì
 fermentation <i>/fɜːmənˈteɪʃn/</i>	fā jiào

English	Pinyin
fibre <i>/ˈfaɪbə/</i>	shàn shí xiān wéi
 fitness <i>/ˈfɪtnəs/</i>	shì hé dù
Fluid <i>/ˈfluːɪd/</i>	liú dòng de
 fluid mosaic model <i>/ˈfluːɪd məˈseɪk ˈmɒdl/</i>	liú dòng xiāng qiàn mó xíng
fluidity <i>/fluːˈɪdɪti/</i>	liú dòng xìng
Folds	zhě zhòu
 food chain <i>/fuːd tʃeɪn/</i>	shí wù liàn
 foraging <i>/ˈfɒrɪdʒɪŋ/</i>	mì shí
Forensics	fǎ yī xué
 fossil record <i>/ˈfɒsl ˈrekɔːd/</i>	huà shí jì lù
founder effect <i>/ˈfaʊndə ɪˈfekt/</i>	diàn jī zhě xiào yìng
 frameshift <i>/ˈfreɪmʃɪft/</i>	yí mǎ
free energy <i>/friː ˈenədʒi/</i>	zì yóu néng
functional groups	guān néng tuán
 gametes <i>/ˈgæmɪts/</i>	pèi zi
 Gel electrophoresis <i>/dʒel ɪˌlektroʊfoːˈriːsɪs/</i>	níng jiāo diàn yǒng
 gene expression <i>/dʒiːn ekˈspreʃn/</i>	jī yīn biǎo dá
 gene flow <i>/dʒiːn fləʊ/</i>	jī yīn liú
 gene pool <i>/dʒiːn puːl/</i>	jī yīn kù
generations	shì dài
genetic code	yí chuán mì mǎ

English	Pinyin
 genetic diversity <i>/dʒɪˈnetɪk daɪˈvɜːsɪti/</i>	yí chuán duō yàng xìng
 genetic drift <i>/dʒɪˈnetɪk drɪft/</i>	yí chuán piāo biàn
 Genetic engineering <i>/dʒɪˈnetɪk ˌendʒɪˈniəriŋ/</i>	jī yīn gōng chéng
genetic information	yí chuán xìn xī
genetic variation <i>/dʒɪˈnetɪk ˌveəriˈeɪʃn/</i>	yí chuán biàn yì
genetically modified organism <i>/dʒɪˈnetɪkli ˈmɒdɪfaɪd ˈoːɡənɪzəm/</i>	zhuǎn jī yīn shēng wù
 genotype <i>/'dʒenətaɪp/</i>	jī yīn xíng
germ cells	shēng zhí xì bāo
 glucose <i>/'gluːkəʊs/</i>	pú táo táng
glycerol <i>/'glɪsərəl/</i>	gān yóu
 Glycogen <i>/'glʌɪkədʒɪn/</i>	táng yuán
 Glycolysis <i>/ɡlaɪˈkʊləsɪs/</i>	táng jiào jiě
glycosidic bond <i>/ˌɡlaɪkəˈsɪdɪk bɒnd/</i>	táng gān jiàn
 glycosylation <i>/ˌɡlaɪkəsiˈleɪʃn/</i>	táng jī huà
 Golgi <i>/'ɡɒlɡɪ/</i>	gāo ěr jī tǐ
Golgi apparatus	gāo ěr jī tǐ
gradualism	jiàn biàn lùn
habitat <i>/'hæbɪtæt/</i>	qī xī dì
 haploid <i>/'hæplɔɪd/</i>	dān bèi tǐ
 Hardy-Weinberg equilibrium <i>/'hɑːdi ˈwaɪnbɜːɡ ˌɪːkwɪˈlɪbrɪəm/</i>	- hā dí - wēn bó gé píng héng

English	Pinyin
 Hardy–Weinberg <i>/'hɑːdi ˈwaɪnbɜːɡ/</i>	- hā dí - wēn bó gé
helicase	jiě xuán méi
hemoglobin	xuè hóng dàn bái
heritable	kě yí chuán de
 heterozygous <i>/ˌhetrəˈzɪɡəs/</i>	zá hé
High specific heat	gāo bǐ rè
 homeostasis <i>/ˌhəʊmiːəˈstaːsɪz/</i>	wěn tài
homeotic (Hox) genes	tóng yuán yì xíng jī yīn
homologous <i>/ˌhəˈmɒləɡəs/</i>	tóng yuán de
 homologous chromosomes <i>/ˌhəˈmɒləɡəs ˈkrəʊməsəʊmz/</i>	tóng yuán rǎn sè tǐ
 homologous structures <i>/ˌhəˈmɒləɡəs ˈstrʌktʃəz/</i>	tóng yuán jié gòu
 Homozygous <i>/ˌhɒməˈzɪɡəs/</i>	chún hé
hormone <i>/'hɔːməʊn/</i>	jī sù
human activities	rén lèi huó dòng
 hydrogen bond <i>/'haɪdrədʒɪn bɒnd/</i>	qīng jiàn
 Hydrolysis <i>/haɪˈdrɒləsɪs/</i>	shuǐ jiě
 hydrolytic enzymes <i>/ˌhaɪdrəˈlɪtɪk ˈenzaimz/</i>	shuǐ jiě méi
hydrophilic <i>/ˌhaɪdrəˈfɪlɪk/</i>	qīn shuǐ de
 hydrophobic <i>/ˌhaɪdrəˈfəʊbɪk/</i>	shū shuǐ de
Hydroxyl <i>/haɪˈdrɒksɪl/</i>	qiǎng jī

English	Pinyin
 Hypertonic <i>/ˌhaɪpəˈtɒnɪk/</i>	gāo shèn de
 Hypotonic <i>/ˌhaɪpəʊˈtɒnɪk/</i>	dī shèn de
 incomplete dominance <i>/ɪŋkəmˈpli:t ˈdɒmɪnəns/</i>	bù wán quán xiǎn xìng
 independent assortment <i>/ˌɪndɪˈpendənt əˈso:tmənt/</i>	zì yóu zǔ hé
induced fit model	yòu dǎo qì hé mó xíng
inhibitor <i>/ɪnˈhɪbɪtə/</i>	yì zhì jì
initiation <i>/ɪˌnɪʃiˈeɪʃn/</i>	qǐ shǐ
innate	xiān tiān de
inorganic phosphate	wú jī lín suān
insulin <i>/ˈɪnsju:lɪn/</i>	yí dǎo sù
 interphase <i>/ˌɪntəˈfeɪz/</i>	jiān qī
intracellular receptors	bāo nèi shòu tǐ
 introns <i>/ɪnˈtrɒnz/</i>	nèi hán zì
 invasive species <i>/ɪnˈveɪsɪv ˈspi:si:z/</i>	rù qīn wù zhǒng
ion <i>/ˈaɪɒn/</i>	lí zì
isomers	tóng fēn yì gòu tǐ
= Isotonic <i>/ˌaɪsəˈtɒnɪk/</i>	děng shèn de
 keystone species <i>/ˈki:stəʊn ˈspi:si:z/</i>	guān jiàn zhǒng
 kinesis <i>/kəˈni:sis/</i>	dòng xìng
 Krebs cycle <i>/ˌkreɪz ˈsaɪkl/</i>	kè léi bù sī xún huán
lactic acid <i>/ˈlæktɪk ˈæsɪd/</i>	rǔ suān

English	Pinyin
lagging strand <i>/ˈlæɡɪŋ strænd/</i>	hòu suí liàn
laws of thermodynamics	rè lì xué dìng lǚ
leading strand <i>/ˈli:ɪŋ strænd/</i>	qián dǎo liàn
 Life-history strategy <i>/laɪf ˈhɪstəri ˈstrætədʒi/</i>	shēng huó shǐ cè lüè
 ligand <i>/ˈlɪɡænd/</i>	pèi tǐ
ligase <i>/ˈlɪɡeɪs/</i>	lián jiē méi
light energy	guāng néng
light-dependent reactions	guāng fǎn yìng
linked genes	lián suǒ jī yīn
 Lipids <i>/ˈlɪpɪdz/</i>	zhī zhì
 logistic growth <i>/ləˈdʒɪstɪk grəʊθ/</i>	luó jí sī dì zēng zhǎng
lowering its activation energy	huó huà néng
 Lysosomes <i>/ˈlaɪsəsəʊmz/</i>	róng méi tǐ
 macromolecules <i>/ˈmækrəmɒlɪkjʊ:lz/</i>	dà fēn zì
mature mRNA	RNA chéng shú xìn shǐ RNA
Medicine	yī xué
 meiosis <i>/meɪˈəʊsɪs/</i>	jiǎn shù fēn liè
meiosis I	jiǎn shù dì yī cì fēn liè
meiosis II	jiǎn shù dì èr cì fēn liè
Membrane proteins	mó dàn bái
membrane receptors	mó shòu tǐ

English		Pinyin
membrane surface area		mó biǎo miàn jī
membranes		mó
 messenger RNA	RNA	xìn shǐ RNA
<i>/ˈmesɪndʒə,ɑː en ˈeɪ/</i>		
messenger RNA		xìn shǐ
(mRNA)		
metabolic pathways		dài xiè tú jìng
metaphase		zhōng qī
<i>/ˌmetəˈfeɪz/</i>		
microvilli		wēi róng máo
<i>/ˈmaɪkrəvɪlaɪ/</i>		
migration		qiān yí
<i>/maɪˈɡreɪʃn/</i>		
Miller-Urey experiment	-	mǐ lēi - yóu lǐ shí yàn
missense		cuò yì
mitochondrion		xiàn lì tǐ
 mitosis		yǒu sī fēn liè
<i>/maɪˈtəʊsɪs/</i>		
mitotic phase		yǒu sī fēn liè qī
molecular		fēn zǐ
molecule		fēn zǐ
<i>/ˈmɒlɪkjʊːl/</i>		
 monomer		dān tǐ
<i>/ˈmɒnəʊmə/</i>		
 monosaccharides		dān táng
<i>/ˈmɒnəsækəːraɪdʒ/</i>		
morphological		xíng tài
Mosaic		xiāng qiàn de
multicellular organisms		duō xì bāo shēng wù
 multiple alleles		fù děng wèi jī yīn
<i>/ˈmʌltɪpl əˈliːlz/</i>		

English		Pinyin
 multiple linear chromosomes		xiàn xíng rǎn sè tǐ
<i>/ˈmʌltɪpl ˈlɪniə ˈkrəʊməsəʊmz/</i>		
 mutation		tū biàn
<i>/mjuːˈteɪʃn/</i>		
 mutualism		hù lì gòng shēng
<i>/ˈmjuːtʃuːəlɪzəm/</i>		
NADPH		huán yuán xíng fǔ méi èr
 natural selection		zì rán xuǎn zé
<i>/ˈnætʃərəl sɪˈleɪʃn/</i>		
negative charge		fù diàn hè
<i>/ˈnegətɪv tʃɑːdʒ/</i>		
 negative feedback		fù fǎn kuì
<i>/ˈnegətɪv ˈfiːdbæk/</i>		
nitrogenous base		hán dàn jiǎn jī
 nocturnal and diurnal activity		yè xíng xíng yǔ zhòu xíng xíng
<i>/nɒkˈtɜːnl ænd ˈdɪɜːnl ækˈtɪvɪti/</i>		
Noncompetitive inhibition		fēi jìng zhēng xíng yì zhì
 nondisjunction		bù fēn lí
<i>/ˌnɒndɪsˈdʒʌŋkʃn/</i>		
nonpolar		fēi jí xíng de
nonsense		wú yì
 Nucleic acids		hé suān
<i>/njuːˈkliːk ˈæsɪdʒ/</i>		
 nucleotide		hé gān suān
<i>/ˈnjuːklɒtaɪd/</i>		
 Nucleus		xì bāo hé
<i>/ˈnjuːklɪəs/</i>		
null hypothesis		líng jiǎ shè
<i>/nʌl haɪˈpɒθəsis/</i>		
oils		yóu
operon		cāo zòng zì
optimum pH		zuì shì suān jiǎn dù

English	Pinyin
 optimum temperature /ˈɒptɪməm ˈtemprɪtʃə/	zuì shì wēn dù
 organelles /ˌɔːɡəˈnelz/	xì bāo qì
 organic molecules /oːˈɡænik ˈmɒlɪkjʊːlz/	yǒu jī fèn zǐ
 osmoregulation /ˌɒzmɔːɡjəˈleɪʃn/	shèn tòu tiáo jié
 osmosis /ɒzˈməʊsɪs/	shèn tòu
Oxidative phosphorylation /ˈɒksɪdətɪv ˌfɒsfəːrɪˈleɪʃn/	yǎng huà lín suān huà
 oxygenated atmosphere /ˈɒksɪdʒenɪtɪd ˈætməsfɪə/	hán yǎng dà qì
paracrine	páng fēn mì
 parasitism /ˈpærəsɪtɪzəm/	jì shēng
 passive /ˈpæsɪv/	bèi dòng de
 Passive transport /ˈpæsɪv ˈtrænsport/	bèi dòng yùn shū
 PCR /ˌpiː siː ˈɑː/	jù hé méi liàn fǎn yìng
pentose	wǔ tàn táng
 peptide bond /ˈpeptɪd bɒnd/	tài jiàn
pesticide resistance /ˈpestɪsaɪd rɪˈzɪstəns/	shā chóng jì kàng xìng
pH /piː eɪtʃ/	suān jiǎn dù
 phenotype /ˈfenətaɪp/	biǎo xíng
phenotypic plasticity	biǎo xíng kě sù xìng
 Phosphate /ˈfɒsfeɪt/	lín suān jī
phosphate group	lín suān jī tuán

English	Pinyin
 phospholipid /ˈfɒsfəˌlɪpɪd/	lín zhī
 phospholipid bilayer /ˈfɒsfəˌlɪpɪd ˈbɪleɪə/	lín zhī shuāng fèn zǐ céng
phosphorylation cascade	lín suān huà jí lián
 photosynthesis /ˌfəʊtəʊˈsɪnθəˌsɪs/	guāng hé zuò yòng
 phylogenetic tree /ˌfaɪlədʒˈnetɪk triː/	xì tǒng fā yù shù
 plasma membrane /ˈplæzmə ˈmembreɪn/	zhì mó
pleiotropy	duō xiào xìng
point mutation	diǎn tū biàn
 polar /ˈpəʊlə/	jí xíng de
 polar molecule /ˈpəʊlə ˈmɒlɪkjʊːl/	jí xíng fēn zǐ
Polarity /pəʊˈlærɪti/	jí xíng
pollution /pəˈluːʃn/	wū rǎn
poly-A tail	duō jù xiàn gān suān wěi
 polygenic /ˌpɒliˈdʒenɪk/	duō jī yīn
polygenic inheritance	duō jī yīn yí chuán
polymerase chain reaction (PCR)	jù hé méi liàn shì fǎn yìng
 polymers /ˈpɒlɪməz/	jù hé wù
 polypeptide /ˌpɒliˈpeptɪd/	duō tài
 polysaccharide /ˌpɒliˈsækəːraɪd/	duō táng
 population /ˌpɒpjəˈleɪʃn/	zhōng qún
 Population genetics /ˌpɒpjəˈleɪʃn dʒɪˈnetɪks/	qún tǐ yí chuán xué

English	Pinyin
population growth rate	zhǒng qún zēng zhǎng lǜ
positive charge	zhèng diàn hè
 positive feedback	zhèng fǎn kuì
postzygotic	hé zǐ hòu gé lí
pre-mRNA	RNA qián tǐ xìn shǐ RNA
 predation	bǔ shí
pressure potential	yā lì shì
prezygotic	hé zǐ qián gé lí
— Primary structure	yī jí jié gòu
probability	gài lǜ
 producers	shēng chǎn zhě
Products	chǎn wù
○ prokaryotes	yuán hé shēng wù
prokaryotic	yuán hé de
promoter	qǐ dòng zì
prophase	qián qī
protein structure	dàn bái zhì jié gòu
 proteins	dàn bái zhì
protocells	yuán shǐ xì bāo
punctuated equilibrium	jiàn duàn píng héng
 Punnett square	páng nà tè fāng gé

English	Pinyin
Quaternary structure	sì jí jié gòu
R group	cè liàn
random fertilization	suí jī shòu jīng
raw material	yuán cái liào
Reactants	fǎn yìng wù
 reception	jiē shōu
 receptor	shòu tǐ
↓ recessive	yǐn xìng
recover	huī fù
recycling	xún huán
regulatory genes	tiáo kòng jī yīn
regulatory sequences	tiáo kòng xù liè
 replication	fù zhì
 reproductive isolation	shēng zhí gé lí
 reproductively isolated	shēng zhí gé lí
 resilient	yǒu rèn xìng
 response	xiǎng yìng
revised	xiū dìng
⦿ ribosomal RNA	RNA hé táng tǐ RNA
• ribosomal RNA (rRNA)	hé táng tǐ
⦿ ribosome	hé táng tǐ

English	Pinyin
RNA	hé táng hé suān
 RNA polymerase	RNA RNA jù hé méi
<i>/ˌɑː en ˈei ˌpɒlɪməˈreɪz/</i>	
RNA processing	RNA RNA jiā gōng
Rough ER	cū miàn nèi zhì wǎng
 Saturated	bǎo hé de
<i>/ˈsætʃəreɪtɪd/</i>	
second messengers	dì èr xìn shǐ
secondary active trans- port	cì jí zhǔ dòng yùn shū
Secondary structure	èr jí jié gòu
<i>/ˈsekəndəri ˈstrʌktʃə/</i>	
segregation	fēn lí
<i>/ˌseɡrɪˈgeɪʃn/</i>	
 selectively permeable	xuǎn zé xìng tōng tòu de
<i>/sɪˈlektɪvli ˈpɜːməbl/</i>	
semiconservative	bàn bǎo liú de
 semiconservatively	bàn bǎo liú fù zhì
<i>/ˌsemɪkənˈsɜːvətɪvli/</i>	
sequence	xù liè
<i>/ˈsiːkwəns/</i>	
 set point	shè dìng diǎn
<i>/set pɔɪnt/</i>	
sex chromosomes	xìng rǎn sè tǐ
<i>/seks ˈkrəʊməsəʊmz/</i>	
 sex-linked	bàn xìng yí chuán
<i>/seks ɪŋkt/</i>	
sexual reproduction	yǒu xìng shēng zhí
<i>/ˈseksʃuːəl rɪprəˈdʌkʃn/</i>	
shared derived charac- ters	gòng yǒu yǎn zhēng
 signal	xìn hào
<i>/ˈsɪɡnl/</i>	
 signal transduction	xìn hào zhuǎn dǎo
<i>/ˈsɪɡnl trænsˈdʌkʃn/</i>	

English	Pinyin
 signal transduction pathway	xìn hào zhuǎn dǎo tōng lù
<i>/ˈsɪɡnl trænsˈdʌkʃn ˈpæθweɪ/</i>	
silent	chén mò
 single circular chromosome	huán zhuàng rǎn sè tǐ
<i>/ˈsɪŋɡl ˈsɜːkjʊlə ˈkrəʊməsəʊm/</i>	
Size	dà xiǎo
<i>/saɪz/</i>	
smooth ER	huá miàn nèi zhì wǎng
sodium-potassium pump	nà jiǎ bèng
solute potential	róng zhì shì
somatic	tǐ xì bāo de
<i>/səˈmætɪk/</i>	
 Speciation	wù zhǒng xíng chéng
<i>/ˌspiːʃiˈeɪʃn/</i>	
 species	wù zhǒng
<i>/ˈspiːsiːz/</i>	
specific	zhuān yī de
<i>/spəˈsɪfɪk/</i>	
 specific heat	bǐ rè róng
<i>/spəˈsɪfɪk hiːt/</i>	
specificity	tè yì xìng
<i>/ˌspeɪˈfɪsɪti/</i>	
Splicing	jiǎn jiē
stability	wěn dìng xìng
<i>/stəˈbɪlɪti/</i>	
 stabilizing selection	wěn dìng xuǎn zé
<i>/ˈsteɪbɪlaɪzɪŋ sɪˈleɪʃn/</i>	
 Starch	diàn fēn
<i>/staːtʃ/</i>	
start codon	qǐ shǐ mì mǎ zi
Steroids	lèi gù chún
stop codons	zhōng zhǐ mì mǎ zi

English	Pinyin
 stroma	jī zhì
<i>/ˈstrəʊmə/</i>	
 structure	jié gòu
<i>/ˈstrʌktʃə/</i>	
 substrate	dǐ wù
<i>/ˈsʌbstreɪt/</i>	
 sugar-phosphate back-bone	táng - lín suān gǔ jià
 Surface area	biǎo miàn jī
<i>/ˈsɜːfɪs ˈeəriə/</i>	
 surface area-to-volume ratio	biǎo miàn jī yǔ tǐ jī bǐ
 Surface tension	biǎo miàn zhāng lì
<i>/ˈsɜːfɪs ˈtenʃn/</i>	
 surface-area-to-volume ratio	biǎo miàn jī yǔ tǐ jī bǐ
<i>/ˈsɜːfɪs ˈeəriə tə ˈvɒljʊːm ˈreɪʃiəʊ/</i>	
 survivorship curves	cún huó qū xiàn
 symbiosis	gòng shēng
<i>/ˌsɪmbaɪˈəʊsɪs/</i>	
 sympatric speciation	tóng yù wù zhǒng xíng chéng
<i>/ˈsɪmpətrɪk ˌspiːʃiˈeɪʃn/</i>	
 target cell	bǎ xì bāo
<i>/ˈtɑːɡɪt sel/</i>	
 taxis	qū xìng
<i>/ˈtæksɪz/</i>	
 telophase	mò qī
<i>/ˈteləfeɪz/</i>	
 temperature	wēn dù
<i>/ˈtemprɪtʃə/</i>	
 template	mú bǎn
<i>/ˈtempleɪt/</i>	
 termination	zhōng zhǐ
<i>/ˌtɜːmɪˈneɪʃn/</i>	
 territorial marking	lǐng yù biāo jì
<i>/ˌteriˈtɔːriəl ˈmɑːkɪŋ/</i>	
 Tertiary structure	sān jí jié gòu
<i>/ˈtɜːʃəri ˈstrʌktʃə/</i>	

English	Pinyin
 The first law	rè lì xué dì yí dīng lǚ
<i>/ðə fɜːst lɔː/</i>	
 The Golgi complex	gāo ěr jī fù hé tǐ
<i>/ðə ˈɡɒlɡɪ ˈkɒmpleks/</i>	
 The second law	rè lì xué dì èr dīng lǚ
<i>/ðə ˈsekənd lɔː/</i>	
 thylakoids	lèi náng tǐ
 timeline	shí jiān xiàn
<i>/ˈtaɪmlaɪn/</i>	
 tissue repair	zǔ zhī xiū fù
 Tonicity	zhāng lì
<i>/təˈnɪsɪti/</i>	
 transcription	zhuǎn lù
<i>/trænˈskrɪpʃn/</i>	
 transcription factors	zhuǎn lù yīn zǐ
<i>/trænˈskrɪpʃn ˈfæktəz/</i>	
 transduction	zhuǎn dǎo
<i>/trænsˈdʌkʃn/</i>	
 transfer RNA	RNA zhuǎn yùn RNA
<i>/ˈtrænsfɜː ˌɑː en ˈeɪ/</i>	
 translation	fān yì
<i>/trænˈsleɪʃn/</i>	
 transport proteins	zhuǎn yùn dàn bái
 triglyceride	gān yóu sān zhǐ
<i>/ˈtrɪɡlɪsəraɪd/</i>	
 trophic level	yíng yǎng jí
<i>/ˈtrɒfɪk ˈlevl/</i>	
 tropism	xiàng xìng
<i>/ˈtrɒpɪzəm/</i>	
 universal solvent	tōng yòng róng jì
 Unsaturated	bù bǎo hé de
<i>/ʌnˈsætʃəreɪtɪd/</i>	
 uracil	niào mì dīng
<i>/ˈjʊərəsɪl/</i>	
 Vacuoles	yè pào
<i>/ˈvækjuːəvlz/</i>	
 variation	biàn yì
<i>/ˌveəriˈeɪʃn/</i>	

English	Pinyin
vesicles  /ˈvesɪklz/	náng pào
vestigial structures  /ˈvestɪdʒl ˈstrʌktʃəz/	hén jì qì guān
Volume  /ˈvɒljuːm/	tǐ jī
water movement	shuǐ de yí dòng
water potential  /ˈwɔːtə pəˈtenʃl/	shuǐ shì