

AP Biology

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

English	Pinyin
acid <i>/ˈæsɪd/</i>	suān
 activation energy <i>/ˌæktɪˈveɪʃn ˈenədʒi/</i>	huó huà néng
active <i>/ˈæktɪv/</i>	zhǔ dòng de
 active site <i>/ˈæktɪv saɪt/</i>	huó xìng wèi diǎn
 Active transport <i>/ˈæktɪv ˈtrænsˌpɔ:t/</i>	zhǔ dòng yùn shū
 adaptations <i>/ˌædæpˈteɪʃnz/</i>	shì yìng
 Adhesion <i>/ədˈhi:ʒn/</i>	fù zhuó lì
 ADP <i>/eɪ diː ˈpiː/</i>	èr lín suān xiàn gān
aerobic <i>/eəˈrəʊbɪk/</i>	yǒu yǎng de
Agriculture <i>/ˈægrɪkʌltʃə/</i>	nóng yè
allele <i>/əˈli:l/</i>	děng wèi jī yīn
 allele frequencies <i>/əˈli:l ˈfri:kwənsɪz/</i>	děng wèi jī yīn pín lǜ
allopatric speciation <i>/ˌæləˈpætrɪk ˌspiːʃiˈeɪʃn/</i>	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 <i>/əˈmi:nəʊ ˈæsɪd/</i>	ān jī suān
 amplification <i>/ˌæmplɪfɪˈkeɪʃn/</i>	fàng dà

English	Pinyin
amplifies	kuò zēng
anabolic <i>/ˌænəˈbɒlɪk/</i>	hé chéng dài xiè de
 anaerobic respiration <i>/ˌæneəˈræɒbɪk ˌrespiˈreɪʃn/</i>	wú yǎng hū xī
anaphase <i>/ˈænəfeɪz/</i>	hòu qī
 aneuploidy <i>/ˈeɪnəplɔɪdi/</i>	fēi zhěng bèi xìng
 antibiotic resistance <i>/ˌæntɪbaɪˈɒtɪk rɪˈzɪstəns/</i>	kàng shēng sù nài yào xìng
 anticodon <i>/ˌæntɪˈkəʊdɒn/</i>	fǎn mǐ mǎ zi
 antiparallel <i>/ˌæntɪˈpærələl/</i>	fǎn píng xíng de
 apoptosis <i>/əpəpˈtəʊsɪs/</i>	xì bāo diào wáng
 artificial selection <i>/ˌɑːtɪˈfɪʃl sɪˈleɪʃn/</i>	rén gōng xuǎn zé
asexual reproduction <i>/eɪˈseksjuːəl rɪprəˈdʌkʃn/</i>	wú xìng shēng zhí
 ATP <i>/eɪ tiː ˈpiː/</i>	xiàn gān sān lín suān
 banded iron formations <i>/ˈbændɪd ˈaɪən fɔːˈmeɪʃnz/</i>	tiáo dài zhuàng tiě jiàn zào
base <i>/beɪs/</i>	jiǎn
 biodiversity <i>/ˌbaɪəʊdəɪˈvɜːsɪti/</i>	shēng wù duō yàng xìng
biogeography	shēng wù dì lǐ xué
 Biotechnology <i>/ˌbaɪəʊtekˈnɒlədʒi/</i>	shēng wù jì shù
blood glucose	xuè táng
body plan	tǐ xíng mó shì
bottleneck effect <i>/ˈbɒtlɛk rɪˈfekt/</i>	píng jǐng xiào yìng
calcium ions	gài lí zi

English	Pinyin
 Calvin cycle <i>/'kælvɪn 'saɪkl/</i>	kǎ ěr wén xún huán
 cancer <i>/'kænsə/</i>	ái zhèng
cap	mào zi jié gòu
capillary action	máo xì zuò yòng
 Carbohydrates <i>/'kɑ:bəʊ'hardreɪts/</i>	tàn shuǐ huà hé wù
 carbon <i>/'kɑ:bən/</i>	tàn
carbon fixation	tàn gù dìng
Carboxyl <i>/'kɑ:bəksɪl/</i>	suō jī
 carrier <i>/'kæriə/</i>	zài tǐ
Carrier proteins	zài tǐ dàn bái
 carrying capacity <i>/'kæriɪŋ kə'pæsɪti/</i>	chéng zài lì
catabolic	fēn jiě dài xiè de
catalase <i>/'kætəleɪz/</i>	guò yǎng huà qīng méi
 catalyst <i>/'kætəlist/</i>	cūi huà jì
cell <i>/sel/</i>	xì bāo
 cell cycle <i>/sel 'saɪkl/</i>	xì bāo zhōu qī
cell differentiation	xì bāo fēn huà
cell division	xì bāo fēn liè
cell membrane <i>/sel 'membreɪn/</i>	xì bāo mó
cell wall <i>/sel wɔ:l/</i>	xì bāo bì
cellular resources	xì bāo zī yuán

English	Pinyin
 cellular respiration <i>/ˈseljələˌrespɪˈreɪʃn/</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 rɪˈækʃnz/</i>	huà xué fǎn yìng
chemiosmosis <i>/ˌkemɪəzˈməʊsɪs/</i>	huà xué shèn tòu
chi-square test	kǎ fāng jiǎn yàn
 chlorophyll <i>/ˌklɒːrəʊˈfɪl/</i>	yè lǚ sù
chloroplast <i>/ˌklɒːrəʊplæst/</i>	yè lǚ 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 'ræpɪŋ ə'raʊnd 'prəʊti:nz kə:ld 'hɪstəʊnz/</i>	zǔ dàn bái
conserved <i>/kən'sɜ:vəd/</i>	bǎo shǒu de
 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>/ˈkəʊvələnt bɒndz/</i>	gòng jià jiàn
cristae <i>/ˈkrɪsti:/</i>	jǐ
✕ crossing over <i>/ˈkrɒsɪŋ ˈəʊvə/</i>	jiāo chā hù huàn
≡ cyanobacteria <i>/ˌsaɪəˌnɒbəkˈtɪəriə/</i>	lán xì jūn
cyclic AMP <i>/ˈsaɪklɪk ˌeɪ em ˈpi:/</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>/ˌsaɪtəkeˈniːsɪs/</i>	bāo zhì fēn liè
Darwin	dá ěr wén
daughter cells <i>/ˈdɔːtə selz/</i>	zǐ xì bāo
decomposers <i>/ˌdiːkəmˈpəʊzəz/</i>	fēn jiě zhě
⌵ Dehydration synthesis <i>/ˌdiːhaɪˈdreɪʃn ˈsɪnθəsis/</i>	tuō shuǐ hé chéng
denaturation	biàn xìng
✖ denature <i>/ˈdenətʃə/</i>	biàn xìng
denatured <i>/ˈdenətʃəd/</i>	biàn xìng
▣ density-dependent <i>/ˈdensɪti dɪˈpendənt/</i>	mì dù zhì yuē
⚡ density-independent <i>/ˈdensɪti ˌɪndɪˈpendənt/</i>	fēi mì dù zhì yuē
development <i>/dɪˈveləpmənt/</i>	fā yù
≡ differential gene expression <i>/ˌdɪfəˈrenʃl dʒiːn ekˈspreʃn/</i>	chā yì jī yīn biǎo dá

English	Pinyin
differential reproductive success	fán zhí chéng gōng
 diffusion <i>/di'fju:ʒn/</i>	kuò sàn
 diploid <i>/'dɪplɔɪd/</i>	èr bèi tǐ
dipole <i>/'daɪpəʊl/</i>	ǒu jí
direct contact <i>/daɪ'rekt 'kɒntækt/</i>	zhí jiē jiē chù
 directional selection <i>/daɪ'rekʃənəl sɪ'leɪʃn/</i>	dìng xiàng xuǎn zé
 disaccharide <i>/,dɪsək'hɑ:raɪd/</i>	èr táng
disasters	zāi hài
disease <i>/dɪ'zi:z/</i>	jí bìng
 disruptive selection <i>/dɪs'rʌptɪv sɪ'leɪʃn/</i>	fēn liè xuǎn zé
disturbances	gān rǎo
divergent evolution	qū yì jìn huà
 diversity <i>/daɪ'vɜ:sɪti/</i>	duō yàng xìng
DNA <i>/,di: en 'eɪ/</i>	tuō yǎng hé táng hé suān
DNA methylation	DNA DNA jiǎ jī huà
 DNA polymerase <i>/,di: en 'eɪ ,pɒlɪmə'reɪz/</i>	DNA DNA jù hé méi
DNA sequencing	DNA DNA cè xù
 dominant <i>/'dɒmɪnənt/</i>	xiǎn xìng
 double helix <i>/'dʌbl 'hi:lɪks/</i>	shuāng luó xuán
double membranes	shuāng céng mó
 ecological succession <i>/,ekə'lɒdʒɪkl sək'seʃn/</i>	shēng tài yǎn tì

English	Pinyin
ecosystem services /i:kəʊsɪstəm 'sɜ:vɪsɪz/	shēng tài xì tǒng fú wù
 ecosystems /i:kəʊsɪstəmz/	shēng tài xì tǒng
efficiency /ɪ'fɪjənsi/	xiào lǜ
electrochemical gradient	diàn huà xué tī dù
 electron transport chain /ɪ'lektɹɒn 'trænspɔ:t tʃeɪn/	diàn zǐ chuán dì liàn
electronegative /ɪ'lektɹəʊŋɡətɪv/	diàn fù xìng qiáng de
 elements /'elɪmənts/	yuán sù
elongation /i:,lɒn'geɪʃn/	yán shēn
emergent properties	yǒng xiàn xìng zhì
endergonic reaction	xī néng fǎn yìng
 Endocytosis /ˌendəʊsɪ'təʊsɪs/	bāo tūn zuò yòng
 endomembrane system /ˌendəʊmembreɪn 'sɪstəm/	nèi mó xì tǒng
 endoplasmic reticulum /ˌendəʊ'plæzmɪk re'tɪkjʊləm/	nèi zhì wǎng
 endosymbiosis /ˌendəʊ,sɪmbaɪ'əʊsɪs/	nèi gòng shēng
 endosymbiotic theory /ˌendəʊ,sɪmbaɪ'ɒtɪk 'θɪəri/	nèi gòng shēng xué shuō
energy pyramid /'enədʒi 'pɪrəməɪd/	néng liàng jīn zì tǎ
engulfed	tūn shì
 entropy /'entrəpi/	shāng
 environment /en'vaɪrənmənt/	huán jìng
environmental change	huán jìng biàn huà
environmental pressures	huán jìng yā lì

English	Pinyin
✂ enzyme /'enzaim/ epigenetic epistasis /ɪpɪ'sta:sɪz/ eukaryotes /'ju:kəriəʊts/ eukaryotic /ju:kəri'ɒtɪk/ Evaporative cooling	méi biǎo guān yí chuán de shàng wèi xiào yìng zhēn hé shēng wù zhēn hé de zhēng fā lěng què
♻ evolution /ɪvə'lʊ:ʃn/ exergonic reaction	jìn huà fàng néng fǎn yìng
⬆ Exocytosis /eg,zɒsɪ'təʊsɪs/	bāo tǔ zuò yòng
[] exons /eg'zɒnz/	wài xiǎn zi
↗ exponential growth /ˌeksə'penʃl grəʊθ/ extinction /ek'stɪŋkʃn/	zhǐ shù zēng zhǎng miè jué
🏠 facilitated diffusion /fə'sɪlɪteɪtɪd dɪ'fju:ʒn/ far-reaching fats /fæts/ fatty acids /'fæti 'æsɪdz/	yì huà kuò sàn shēn yuǎn de zhī fáng zhī fáng suān
↶ Feedback /'fi:dbæk/ feedback inhibition feedback loop /'fi:dbæk lu:p/ feedback mechanisms	fǎn kuì fǎn kuì yì zhì fǎn kuì huí lù fǎn kuì jī zhì
🍷 fermentation /fɜ:mən'teɪʃn/	fā jiào

English	Pinyin
fibre /'faɪbə/	shàn shí xiān wéi
fitness /'fɪtnəs/	shì hé dù
Fluid /'fluːɪd/	liú dòng de
fluid mosaic model /'fluːɪd mə'seɪk 'mɒdl/	liú dòng xiāng qiàn mó xíng
fluidity /fluː'ɪdɪti/	liú dòng xìng
Folds	zhě zhòu
food chain /fuːd tʃeɪn/	shí wù liàn
foraging /'fɒrɪdʒɪŋ/	mì shí
Forensics	fǎ yī xué
fossil record /'fɒsl 'rekɔːd/	huà shí jì lù
founder effect /'faʊndə 'ɪfekt/	diàn jī zhě xiào yìng
frameshift /'freɪmʃɪft/	yí mǎ
free energy /friː 'enədʒi/	zì yóu néng
functional groups	guān néng tuán
gametes /'gæmɪts/	pèi zi
Gel electrophoresis /dʒel ɪˌlektroʊfoː'riːsɪs/	níng jiāo diàn yǒng
gene expression /dʒiːn ek'spreʃn/	jī yīn biǎo dá
gene flow /dʒiːn fləʊ/	jī yīn liú
gene pool /dʒiːn puːl/	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 ˌendʒɪˈnɪərɪŋ/</i>	jī yīn gōng chéng
genetic information	yí chuán xìn xī
genetic variation <i>/dʒɪˈnetɪk ˌveərɪˈeɪʃn/</i>	yí chuán biàn yì
genetically modified organism <i>/dʒɪˈnetɪkli ˈmɒdɪfaɪd ˈɔːɡənɪzəm/</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>/'glaiəkədʒɪn/</i>	táng yuán
 Glycolysis <i>/glaiˈkʊləsɪs/</i>	táng jiào jiě
glycosidic bond <i>/ˌglaiəkəˈsɪdɪk bɒnd/</i>	táng gān jiàn
 glycosylation <i>/ˌglaiəkəsɪˈleɪʃn/</i>	táng jī huà
 Golgi <i>/'gɒlɡɪ/</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 ˈwaɪnbɜːg ˌiːkwɪˈlɪbrɪəm/</i>	- hā dí - wēn bó gé píng héng

English		Pinyin
 Hardy–Weinberg <i>/ˈhɑːdi ˈwaɪnbɜːg/</i> helicase hemoglobin heritable	-	hā dí - wēn bó gé jiě xuán méi xuè hóng dàn bái kě yí chuán de
$\pm$ heterozygous <i>/ˌhetrəˈzɪɡəs/</i> High specific heat		zá hé gāo bǐ rè
 homeostasis <i>/ˌhəʊmiːəˈstaːsɪz/</i> homeotic (Hox) genes homologous <i>/həˈmɒləɡəs/</i>		wěn tài tóng yuán yì xíng jī yīn tóng yuán de
 homologous chromosomes <i>/həˈmɒləɡəs ˈkrəʊməsəʊmz/</i>		tóng yuán rǎn sè tǐ
 homologous structures <i>/həˈmɒləɡəs ˈstrʌktʃəz/</i>		tóng yuán jié gòu
$=$ Homozygous <i>/ˌhʊməˈzɪɡəs/</i> hormone <i>/ˈhɔːməʊn/</i> human activities		chún hé jī sù rén lèi huó dòng
 hydrogen bond <i>/ˈhaɪdrədʒn bɒnd/</i>		qīng jiàn
 Hydrolysis <i>/haɪˈdrɒləsɪs/</i>		shuǐ jiě
 hydrolytic enzymes <i>/ˌhaɪdrəˈlɪtɪk ˈenzائمز/</i> hydrophilic <i>/ˌhaɪdrəˈfɪlɪk/</i>		shuǐ jiě méi qīn shuǐ de
 hydrophobic <i>/ˌhaɪdrəˈfəʊbɪk/</i> Hydroxyl <i>/haɪˈdrɒksɪl/</i>		shū shuǐ de 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 əˈsɔːtmənt/</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>/ˈɪnsjuːlɪn/</i>	yí dǎo sù
 interphase <i>/ˌɪntəˈfeɪz/</i>	jiān qī
intracellular receptors	bāo nèi shòu tǐ
 introns <i>/ɪnˈtrɒnz/</i>	nèi hán zi
 invasive species <i>/ɪnˈveɪsɪv ˈspiːsiːz/</i>	rù qīn wù zhǒng
ion <i>/ˈaɪɒn/</i>	lí zi
isomers	tóng fēn yì gòu tǐ
= Isotonic <i>/ˌaɪsəˈtɒnɪk/</i>	děng shèn de
 keystone species <i>/ˈkiːstəʊn ˈspiːsiːz/</i>	guān jiàn zhǒng
 kinesis <i>/kəˈniːsɪs/</i>	dòng xìng
 Krebs cycle <i>/krebz 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>/ˈliːdɪŋ 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>/ˈmækrəmɒlɪkjʊːlz/</i>	dà fēn zǐ
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 <i>/ˈmesɪndʒə ˌɑː en ˈeɪ/</i>	RNA	xìn shǐ RNA
messenger RNA (mRNA)		xìn shǐ
metabolic pathways		dài xiè tú jìng
metaphase <i>/ˌmetəˈfeɪz/</i>		zhōng qī
microvilli <i>/ˈmaɪkrəʊvɪlɪ/</i>		wēi róng máo
migration <i>/maɪˈɡreɪʃn/</i>		qiān yí
Miller-Urey experiment	-	mǐ lēi - yóu lǐ shí yàn
missense		cuò yì
mitochondrion		xiàn lì tǐ
 mitosis <i>/maɪˈtəʊsɪs/</i>		yǒu sī fēn liè
mitotic phase		yǒu sī fēn liè qī
molecular		fèn zǐ
molecule <i>/ˈmɒlɪkjʊːl/</i>		fèn zǐ
 monomer <i>/ˈmɒnəʊmə/</i>		dān tǐ
 monosaccharides <i>/ˈmɒnəʊsækəːraɪdz/</i>		dān táng
morphological		xíng tài
Mosaic		xiāng qiàn de
multicellular organisms		duō xì bāo shēng wù
 multiple alleles <i>/ˈmʌltɪpl əˈliːlz/</i>		fù děng wèi jī yīn

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

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

English	Pinyin
 phospholipid <i>/'fɒsfəliːpɪd/</i>	lín zhī
 phospholipid bilayer <i>/'fɒsfəliːpɪd 'biːlə/</i>	lín zhī shuāng fèn zǐ céng
phosphorylation cascade	lín suān huà jí lián
 photosynthesis <i>/ˌfəʊtəʊ'sɪnθəˈsɪs/</i>	guāng hé zuò yòng
 phylogenetic tree <i>/ˌfaɪlədʒ'netɪk triː/</i>	xì tǒng fā yù shù
 plasma membrane <i>/'plæzmə 'membreɪn/</i>	zhì mó
pleiotropy	duō xiào xìng
point mutation	diǎn tū biàn
 polar <i>/'pəʊlə/</i>	jí xìng de
 polar molecule <i>/'pəʊlə 'mɒlɪkjʊːl/</i>	jí xìng fēn zǐ
Polarity <i>/pəʊ'lærɪti/</i>	jí xìng
pollution <i>/pə'luːʃn/</i>	wū rǎn
poly-A tail	duō jù xiàn gān suān wěi
 polygenic <i>/ˌpɒli'dʒenɪk/</i>	duō jī yīn
polygenic inheritance	duō jī yīn yí chuán
polymerase chain reaction (PCR)	jù hé méi liàn shì fǎn yìng
 polymers <i>/'pɒlɪməz/</i>	jù hé wù
 polypeptide <i>/ˌpɒli'peptaid/</i>	duō tài
 polysaccharide <i>/ˌpɒli'sækaːraɪd/</i>	duō táng
 population <i>/ˌpɒpjə'leɪʃn/</i>	zhǒng qún
 Population genetics <i>/ˌpɒpjə'leɪʃn dʒɪ'netɪks/</i>	qún tǐ yí chuán xué

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

English	Pinyin
Quaternary structure <i>/kwə'tɜːnəri 'strʌktʃə/</i>	sì jí jié gòu
R group	cè liàn
random fertilization	suí jī shòu jīng
raw material	yuán cái liào
Reactants <i>/rɪ'æktənts/</i>	fǎn yìng wù
 reception <i>/rɪ'sepʃn/</i>	jiē shōu
 receptor <i>/rɪ'septə/</i>	shòu tǐ
 recessive <i>/rɪ'sesɪv/</i>	yǐn xìng
recover <i>/rɪ'kʌvə/</i>	huī fù
recycling	xún huán
regulatory genes	tiáo kòng jī yīn
regulatory sequences	tiáo kòng xù liè
 replication <i>/ˌreplɪ'keɪʃn/</i>	fù zhì
 reproductive isolation <i>/rɪprə'dʌktɪv ˌaɪsə'leɪʃn/</i>	shēng zhí gé lí
 reproductively isolated <i>/rɪprə'dʌktɪvli ˌaɪsəleɪtɪd/</i>	shēng zhí gé lí
 resilient <i>/rɪ'sɪlɪənt/</i>	yǒu rèn xìng
 response <i>/rɪ'spɒns/</i>	xiǎng yìng
revised	xiū dìng
 ribosomal RNA <i>/'rɪbəsəml ɑː en 'eɪ/</i>	RNA hé táng tǐ RNA
• ribosomal RNA (rRNA) <i>/'rɪbəsəml ɑː en 'eɪ/</i>	hé táng tǐ
 ribosome <i>/'riːbəʊsəʊm/</i>	hé táng tǐ

English	Pinyin
RNA	hé táng hé suān
 RNA polymerase /ˌɑː en 'eɪ ˌpɒlɪmə'reɪz/	RNA RNA jù hé méi
RNA processing	RNA RNA jiā gōng
Rough ER	cū miàn nèi zhì wǎng
 Saturated /'sætʃəreɪtɪd/	bǎo hé de
second messengers	dì èr xìn shǐ
secondary active transport	cì jí zhǔ dòng yùn shū
Secondary structure /'sekəndəri 'strʌktʃə/	èr jí jié gòu
segregation /'segri'geɪʃn/	fēn lí
 selectively permeable /'sɪ'lektɪvli 'pɜːməbl/	xuǎn zé xìng tōng tòu de
semiconservative	bàn bǎo liú de
 semiconservatively /'semɪkən'sɜːvətɪvli/	bàn bǎo liú fù zhì
sequence /'siːkwəns/	xù liè
 set point /set pɔɪnt/	shè dìng diǎn
sex chromosomes /'seks 'krəʊməsəʊmz/	xìng rǎn sè tǐ
 sex-linked /'seks lɪŋkt/	bàn xìng yí chuán
sexual reproduction /'seksʃuəl rɪprə'dʌkʃn/	yǒu xìng shēng zhí
shared derived characters	gòng yǒu yǎn zhēng
 signal /'sɪgnl/	xìn hào
 signal transduction /'sɪgnl træn's'dʌkʃn/	xìn hào zhuǎn dǎo

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

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

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

English	Pinyin
vesicles <i>/ˈvesɪklz/</i>	náng pào
 vestigial structures <i>/ˈvestɪdʒl ˈstrʌktʃəz/</i>	hén jì qì guān
 Volume <i>/ˈvɒljʊ:m/</i>	tǐ jī
water movement	shuǐ de yí dòng
 water potential <i>/ˈwɔ:tə pəˈtenʃl/</i>	shuǐ shì