

Biological molecules

A-Level Biology · Vocabulary

| English | 中文 | Pinyin |
|--------------------|-------|--------------------|
| molecule | 分子 | fēn zǐ |
| carbohydrate | 碳水化合物 | tàn shuǐ huà hé wù |
| lipid | 脂质 | zhī zhì |
| protein | 蛋白质 | dàn bái zhì |
| nucleic acid | 核酸 | hé suān |
| reducing sugar | 还原糖 | huán yuán táng |
| precipitate | 沉淀 | chén diàn |
| starch | 淀粉 | diàn fěn |
| iodine | 碘 | diǎn |
| emulsion | 乳浊液 | rǔ zhuó yè |
| biuret | 双缩脲 | shuāng suō niào |
| semi-quantitative | 半定量 | bàn dìng liàng |
| standardise | 标准化 | biāo zhǔn huà |
| concentration | 浓度 | nóng dù |
| non-reducing sugar | 非还原糖 | fēi huán yuán táng |
| hydrochloric acid | 盐酸 | yán suān |
| neutralise | 中和 | zhōng hé |
| monomer | 单体 | dān tǐ |
| polymer | 聚合物 | jù hé wù |
| macromolecule | 大分子 | dà fēn zǐ |
| monosaccharide | 单糖 | dān táng |
| glucose | 葡萄糖 | pú táo táng |
| disaccharide | 二糖 | èr táng |
| polysaccharide | 多糖 | duō táng |
| fructose | 果糖 | guǒ táng |
| maltose | 麦芽糖 | mài yá táng |
| sucrose | 蔗糖 | zhè táng |
| covalent bond | 共价键 | gòng jià jiàn |
| glycosidic bond | 糖苷键 | táng gān jiàn |
| condensation | 缩合 | suō hé |
| hydrolysis | 水解 | shuǐ jiě |
| energy | 能量 | néng liàng |
| amylose | 直链淀粉 | zhí liàn diàn fěn |
| amylopectin | 支链淀粉 | zhī liàn diàn fěn |
| glycogen | 糖原 | táng yuán |
| insoluble | 不溶 | bù róng |
| water potential | 水势 | shuǐ shì |
| osmosis | 渗透 | shèn tòu |
| cellulose | 纤维素 | xiān wéi sù |
| hydrogen bond | 氢键 | qīng jiàn |
| microfibril | 微纤丝 | wēi xiān sī |
| cell wall | 细胞壁 | xì bāo bì |

| English | 中文 | Pinyin |
|-----------------------------|--------|-----------------------------|
| triglyceride | 甘油三酯 | gān yóu sān zhǐ |
| non-polar | 非极性 | fēi jí xìng |
| hydrophobic | 疏水 | shū shuǐ |
| glycerol | 甘油 | gān yóu |
| fatty acid | 脂肪酸 | zhī fáng suān |
| ester bond | 酯键 | zhǐ jiàn |
| saturated | 饱和 | bǎo hé |
| double bond | 双键 | shuāng jiàn |
| unsaturated | 不饱和 | bù bǎo hé |
| insulation | 隔热 | gé rè |
| phospholipid | 磷脂 | lín zhī |
| phosphate | 磷酸 | lín suān |
| hydrophilic | 亲水 | qīn shuǐ |
| polar | 极性 | jí xìng |
| amino acid | 氨基酸 | ān jī suān |
| amino group | 氨基 | ān jī |
| carboxyl group | 羧基 | suō jī |
| side chain | 侧链 | cè liàn |
| peptide bond | 肽键 | tài jiàn |
| polypeptide | 多肽 | duō tài |
| primary structure | 一级结构 | yī jí jié gòu |
| secondary structure | 二级结构 | èr jí jié gòu |
| helix | 螺旋 | luó xuán |
| pleated sheet | 折叠片 | zhé dié piàn |
| tertiary structure | 三级结构 | sān jí jié gòu |
| quaternary structure | 四级结构 | sì jí jié gòu |
| hydrophobic interactions | 疏水作用 | shū shuǐ zuò yòng |
| ionic bond | 离子键 | lí zǐ jiàn |
| disulfide bond | 二硫键 | èr liú jiàn |
| globular protein | 球状蛋白质 | qiú zhuàng dàn bái zhì |
| soluble | 可溶 | kě róng |
| fibrous protein | 纤维状蛋白质 | xiān wéi zhuàng dàn bái zhì |
| haemoglobin | 血红蛋白 | xuè hóng dàn bái |
| oxygen | 氧气 | yǎng qì |
| haem group | 血红素 | xuè hóng sù |
| iron | 铁 | tiě |
| collagen | 胶原蛋白 | jiāo yuán dàn bái |
| tendon | 肌腱 | jī jiàn |
| fibre | 纤维 | xiān wéi |
| solvent | 溶剂 | róng jì |
| specific heat capacity | 比热容 | bǐ rè róng |
| latent heat of vaporisation | 汽化潜热 | qì huà qián rè |
| evaporate | 蒸发 | zhēng fā |