- 1. What causes random long white body hairs?
- 2. What does 5' and 3' mean in DNA and RNA strands?
- 3. Why can white hairs get dark again?
- 4. Why do I only breathe out of one nostril?
- 5. Why is DNA replication performed in the 5' to 3' direction?
- 6. Teens concerned about impregnation through clothes
- 7. What could cause hairs to gray at the tips but not the roots?
- 8. What's the maximum and minimum temperature a human can survive?
- 9. Small worm living in some kind of cocoon, what are these animals?
- 10. How long human can survive with just drinking water everyday
- 11. How to translate a blood type used in Eastern Europe?
- 12. NADH vs. NADPH: Where is each one used and why that instead of the other?
- 13. What is the difference between orthologs, paralogs and homologs?
- 14. What is a coupled reaction and why do cells couple reactions?
- 15. Why do mammalian red blood cells lack a nucleus?
- 16. Can a person really die quickly from biting their tongue?
- 17. If I squash an insect and it produces red "juice", does it always mean it is a blood-sucking type?
- 18. Death because of distilled water consumption
- 19. What is the healing process of mouth wounds?
- 20. Why do vaccines cause your arm to hurt?
- 21. Name (and meaning of the absence) of the white semicircle at the base of the fingernail?
- 22. What is it called when one human eye is seeing brighter color than the other?

- 23. What happens to the holes in the skull where teeth were developing?
- 24. Why Do Healing Wounds Feel Warmer To The Touch?
- 25. Why is thymine rather than uracil used in DNA?
- 26. Why are my faeces black in color after eating Oreos
- 27. What is the female equivalent of the morning erection that some men experience?
- 28. How long can an octopus survive out of the water?
- 29. Why do I see different hues of colors between each of my eyes?
- 30. Many black people I've met have bigger lips than white people, why?
- 31. Can dish soap really be used to kill ticks and fleas?
- 32. Dorsal vs Posterior and Ventral vs Anterior
- 33. Why do we add salt when precipitating DNA?
- 34. Deciding between chi square and t test
- 35. Blood pressure difference while seated and laid down
- 36. Do animal cells have vacuoles?
- 37. Why do ladybugs have a different number of points on their backs
- 38. What is the difference between local and global sequence alignments?
- 39. Which organs do cats not eat on their prey?
- 40. how to close a severed artery/vein?
- 41. Is it possible for a child to grow taller than their tallest parent?
- 42. Why does strenous exercise cause vision of "lights"?
- 43. What is the armpit hair for?
- 44. What is the effect of extra-cellular potassium concentration on heart rate and conduction velocity?
- 45. How do prokaryotes perform cellular respiration without membrane-bound organelles?

- 46. What is the function of the RNA primer in DNA replication?
- 47. Why draw blood from veins rather than arteries?
- 48. Why don't we breathe nitrogen when it makes up most of the air?
- 49. How long can human tissue last without blood?
- 50. How do plant cell divide without centrioles?
- 51. Do we get 1/4 of our genes from each grandparent?
- 52. If the brain has no pain receptors, how come you can get a headache?
- 53. Bending your little finger without bending ring finger
- 54. Blood Pressure: Significance of difference between systolic and diastolic
- 55. Which human cells have the longest and shortest lifespan?
- 56. Do humans sneeze or cough in their sleep?
- 57. What species of eagle pushes their young to teach them flying?
- 58. Why are turtles classified as reptiles and not amphibians?
- 59. Why does human facial and head hair continue to grow?
- 60. How to store vegetables in the refrigerator: In plastic bags or not?
- 61. Why does rabies cause hydrophobia?
- 62. Why deoxyribose for DNA and ribose for RNA?
- 63. Does DNA have the equivalent of IF-statements, WHILE loops, or function calls? How about GOTO?
- 64. Why should plants transform glucose into sucrose before transporting it to other parts?
- 65. I'm 20. Can I still grow taller?
- 66. Ramifications and possibility of a diet consuming exclusively of human semen
- 67. At what stage of meiosis does "first meiotic arrest of oogenesis" occur?
- 68. Why do men have a higher hematocrit (red blood cell count) than women?

- 69. What type of cell do you start with in Meiosis?
- 70. How does laughing gas (N,O) work?
- 71. Absorption ratios 260/280 and 260/230 for RNA
- 72. Why are bacteria and archaea in different domains?
- 73. Why are 3 nucleotides used as codons for amino-acid mapping in DNA?
- 74. Do male mammals other than humans have nipples?
- 75. Differences Between Protein Motifs and Protein Domains?
- 76. What is the minimum air pressure the human body can tolerate if oxygen supply is not an issue?
- 77. What's the smallest size a human eye can see?
- 78. Why can cats interpret things on a monitor/tv, but dogs cannot?
- 79. What is this white stuff inside apples?
- 80. Why are (some) cats attracted by bleach?
- 81. How hot can a beverage get without burning the tongue?
- 82. Does Human Female Meiosis II occur after fertilization with sperm?
- 83. How can Valonia ventricosa cells get so big?
- 84. Why can't neurons undergo cell division?
- 85. If I put a cup over a spider, and leave it there for a day, will the spider survive?
- 86. What is positive and negative supercoiling?
- 87. DNA as an acid?
- 88. Applying saliva to mosquito bites
- 89. Why does pH have an effect on enzymes?
- 90. Inoculation vs. vaccination
- 91. At what age do babies begin to synthesize their own antibodies?

- 92. Is pork poisonous?
- 93. Do cows produce milk excessively?
- 94. Why is ATP the preferred choice for energy carriers?
- 95. Why don't mammals have more than 4 limbs?
- 96. How many human cells are there in our body, on average?
- 97. Evolutionarily speaking, why do humans have 46 chromosomes
- 98. Why do we assume that the first humans were dark-skinned?
- 99. How many people are required to maintain genetic diversity?
- 100. What magnification do I need to see blood cells?
- 101. What is the difference between an antibiotic and an antibacterial?
- 102. What is the optimum length of abstinence for maximum ejaculation volume in humans?
- 103. Chromosome and chromatid numbers during cell cycle phases
- 104. What factors are known to affect evolution?
- 105. Why is SOC medium recommended for transformations?
- 106. Why can't the brain and red blood cells use fuels other than glucose?
- 107. Does freezing microorganisms such as probiotics kill them?
- 108. Hoechst or DAPI for nuclear staining?
- 109. Why Does Salt Water Help Sore Throats?
- 110. Which shades/hues of color are easiest to distinguish for humans?
- 111. Why are mosquitoes repelled by smoke?
- 112. Why do fingers swell during cold winters?
- 113. Does red light preserve your night vision?
- 114. Why do eukaryotic organisms have introns in their DNA?

- 115. What is the difference between "dikaryotic" and "heterokaryotic" states in the sexual lifecyles of fungi?
- 116. Why do Humans not produce Vitamin C like other mammals?
- 117. Why is defibrillation in asystole ("flat line") useless?
- 118. Experiment to show that carbon dioxide is needed for photosynthesis
- 119. Fish "coming back to life" after being frozen
- 120. Why is cold water more refreshing than warm water?
- 121. What is the meaning behind Kcat / Km?
- 122. Do humans have enough biological differences to be grouped into races or subspecies?
- 123. How do we sweat immediately after drinking water on a hot day?
- 124. why can't we digest cellulose
- 125. Glomerular Filtration Rate
- 126. What nutrients can humans absorb in the mouth?
- 127. What is the difference between a graded potential and an action potential?
- 128. How can we differentiate between respiration and breathing?
- 129. Whats the difference between voltage gated and ligand gated neurons?
- 130. How does cerebrospinal fluid circulate in the central nervous system?
- 131. Why do cockroaches burst from soapy water?
- 132. What are the functions and differences between axons and dendrites?
- 133. Does sour food cause sweating?
- 134. Why do we suffer abdominal pain after we get very angry or stress?
- 135. What makes humans omnivores, and not herbivores?
- 136. Why do cell membranes let small non-polar molecules through but won't let small polar molecules through?

- 137. Why can't we kill ourselves by holding our breath?
- 138. Is the ringing sound in the ears caused by dying ear cells?
- 139. Mitosis versus Meiosis I: What's the difference?
- 140. Do plants with non-green leaves have chlorophyll and photosynthesis?
- 141. What is the cause of muscle cramps?
- 142. Is it safe to look at infrared LEDs?
- 143. Does our DNA change during our lives?
- 144. Calculating Possible Combinations of Bases in a DNA Strand of a Given Length
- 145. Examples of animals with 12-28 legs?
- 146. Why do these 2 dots frequently occur in dogs' eyebrows? Does it serve/served any advantage?
- 147. Exsanguination Time from Damage to Major Arteries
- 148. A strand of my hair has a grey section in the middle, how is this possible? And why does it happen?
- 149. Why was the Davson-Danielli model rejected?
- 150. Why do 60S & 40S ribosomal subunits make an 80S ribosome (not 100S)?
- 151. How long can a naked human survive on Mars?
- 152. Why do the hormones FSH and LH decrease when the follicle is maturing and does size of follicle change during menstruation phase
- 153. why male penis not considered as cartilage?
- 154. If red blood cells have no mitochondria how are they able to metabolize glucose?
- 155. Why is DNA double stranded and RNA single stranded?
- 156. Why can blood group O be given to all blood groups?
- 157. Why can I raise my left eyebrow independently from the other but not the right?
- 158. What organelles are in an onion cell?

- 159. Why is the Krebs cycle considered a part of aerobic metabolism if molecular oxygen is not involved in any of the reactions in the cycle
- 160. Mitosis in human body
- 161. Cranial Nerve Decussation
- 162. Why don't we develop immunity against common cold?
- 163. Does CPH4 exists?
- 164. What is the relationship between independent assortment and cross over?
- 165. How to write 100% phenotype ratio?
- 166. What would cause a single white eyelash?
- 167. Will the heart keep beating if it's separated from the body?
- 168. What is the difference between the Ureter and Urethra? also between the Renal papilla and Renal pelvis?
- 169. Will I grow taller? How can i tell?
- 170. Why can ATP not be stored in excess?
- 171. What insect is this? (Black body two orange lines in its back and six legs)
- 172. Why do the two hemispheres of the brain control the opposite sides of the body?
- 173. What factors affect the rate of transpiration in plant leaves?
- 174. How are the paranasal sinuses linked with the capillaries in the ear canals?
- 175. Pedigree Probability of Autosomal Recessive Trait
- 176. Why does the affinity of haemoglobin for oxygen decrease at high altitudes?
- 177. Why does the oxygen produced in the photosynthesis come from water and not carbon dioxide?
- 178. What is the effect of the wavelength on the spectrophotometric measurements of protein?
- 179. Why is hydrofluoric acid so dangerous if it is a weak acid?

- 180. Cats, Dogs and Bears how are they related?
- 181. Is it possible for two brown-eyed parents to have blue-eyed child?
- 182. Can swallowed fingermails, hair, or skin get caught in your appendix?
- 183. Is it possible to have cancer and normal blood count at the same time?
- 184. How do I identify the different stages of meiosis under microscope?
- 185. I have a black tiny bug crawling all over the house
- 186. How does extracellular potassium ion concentration and calcium ion concentration affect the excitability of a cell?
- 187. Can the mating of a couple with Rhesus positive and negative blood types result in miscarriage?
- 188. How would the result of Hershey and Chase experiment been different if protein was the genetic material?
- 189. Why do cockroaches flip over when they die?
- 190. How fast do cancer cells divide (compared to normal cells)?
- 191. Is it possible to kill parasitic worms by intoxicating oneself?
- 192. Difference between Appendix and the Cecum?
- 193. Why there is a very high drop in pressure from arteries to arterioles?
- 194. Why can't the human eye focus blue light?
- 195. Why do I smell flowers after sneezing?
- 196. Linear and Circular DNA
- 197. Why do the fastest runners tend to be black?
- 198. How does sodium in one's diet affect blood pressure?
- 199. What happens to our body when we undergo a sudden temperature change from 40! to 20!?
- 200. If the top epidermal layer is burned away, what is it replaced with?

- 201. What is the function of the polar bodies produced during oogenesis?
- 202. What is the difference between a phosphotransferase, a phosphotylase and a kinase?
- 203. Why do snails come out after the rain?
- 204. How can heart disease cause excessive sweating?
- 205. Can humans perceive sounds above 20 kHz?
- 206. How do disulphide bonds in hair cause curling?
- 207. What is the standard deviation of adult human heights for males and females?
- 208. Is there a difference between NADH and NADH2?
- 209. No. of meiotic divisions to produce specific no. of seeds
- 210. What is the difference between osmotic potential and osmotic pressure?
- 211. Importance of Double Helix DNA Structure
- 212. Are there human-ingestible liquids that do not contain water?
- 213. Are humans the only animal that requires "clean water"?
- 214. What is the difference of function between palisade and spongy layers of leaf?
- 215. Why is 70% ethanol preferred for aseptic techniques?
- 216. What is the purpose of using two layers of gel in SDS- PAGE?
- 217. Do women tend to have longer legs and shorter torsos than men?
- 218. Is this a grass cell?
- 219. How to increase pheomelanin production?
- 220. Melting point of a fatty acid?
- 221. Determining net charge of amino acid at given pH
- 222. How do the brain and nerves create electrical pulses?
- 223. Will a bone marrow transplant change one's blood type?

- 224. What is the importance of hydrogen bonds in water? and other questions:
- 225. How many mice are on the Earth?
- 226. Can any other animal choke on food?
- 227. Is blood regarded as an organ?
- 228. Calcium levels and nerve hyperexcitation
- 229. Mechanism of Decorticate & Decerebrate Posturing? Also why is only Decorticate Rigidity a misnomer?
- 230. are sperms considered living
- 231. What E-value BLAST cut-off is best?
- 232. How could humans have interbred with Neanderthals if we're a different species?
- 233. Do apes and humans share 99% of DNA or 99% of genes? What is the difference?
- 234. Why do people have antibodies against other blood types?
- 235. Is the human body composition real?
- 236. Difference between CDS and cDNA
- 237. What organs are absolutely needed by the human body?
- 238. Rust on kettle dangerous to consume?
- 239. Why does milk contained in cartons of milk expand?
- 240. What happens if an IV drip with a saline solution slips out of the vein, but keeps dripping into the body?
- 241. How and why did mammals go back to the oceans?
- 242. Can nosebleeds cause death?
- 243. Agarose vs agar? Why do DNA gels use agarose only and how do you obtain agarose from agar?
- 244. What are the risks of elevating the legs too regularly and when tired?
- 245. What senses are active while sleeping?

- 246. What are the exceptions to Mendel's laws?
- 247. Why is fructose not glucose the main energy source of sperm?
- 248. How do wild animals get rabies?
- 249. What is the biological function of nose, underarm, and pubic hair?
- 250. After vasectomy, where does the sperm go?
- 251. What is the field of view for the human eyes?
- 252. What is inside the male's body in the space where females have the ovaries and the uterus?
- 253. Why is saltatory conduction in myelinated axons faster than continuous conduction in unmyelinated axons?
- 254. Are mosquitoes repelled by high frequency sound?
- 255. Do human anal glands have any function?
- 256. Why do dogs try to cover their poop?
- 257. Catabolic and Anabolic Reactions
- 258. Do white Australians have a distinct look?
- 259. How does heat shock transformation work?
- 260. Complete list of touch sensitive plants
- 261. What is the difference between HPLC and FPLC and why is FPLC preferable for protein purification?
- 262. In Japan, the official average body temperature is 36.0 °C. Why so different from that of Europe?
- 263. Does a microwave oven disinfect food?
- 264. Why is weight gain a symptom of Cushing's Syndrome?
- 265. Why are so few foods blue?
- 266. What does irregular heartbeat mean in simple language?

- 267. What's a non-allelic gene?
- 268. Rate of cell division in humans
- 269. Does the octopus have an anus? What does it look like?
- 270. Which enzyme catalyzes transcription and which translation?
- 271. Why do the major and minor groove exist in DNA?
- 272. Can the excessive consumption of mineral water lead to kidney stones or other health issues?
- 273. Is there any advantage to one blood type over another?
- 274. What is the distinction between chemokines, cytokines, interferons and interleukins?
- 275. How much vanilla will kill a person?
- 276. How many genes do we share with our mother?
- 277. What is the contribution of the cockroach to the ecological environment?
- 278. Starch vs Cellulose. What are the differences between Alpha and Beta glucose ring structure in them?
- 279. Why do adults lose hearing at high frequencies?
- 280. What's the difference between shotgun sequencing and clone based sequencing?
- 281. Why doesn't water enter my body through my anus or genitals when swimming?
- 282. Calculating Protein Concentration from Kilo Units (KU)
- 283. Why do we suddenly forget things, like PIN or phone numbers, that we've known for vears?
- 284. Why does my room suddenly look 'reddish'? My eyes seem to adapt to color
- 285. How are amino acids neutral at physiological pH?
- 286. How do large herbivores get enough protein?
- 287. Blood circulation How to expand blood capillaries?
- 288. Why are plant cells rectangular and animal cells spherical shaped?

- 289. If a human takes antibiotics are all bacteria in the body killed?
- 290. What causes adenosine build up in the brain when awake?
- 291. What is the difference between regular blood, a woman's and a virgin's menstrual blood?
- 292. Why cold water results in cough
- 293. Are trees the only source of large amounts of oxygen?
- 294. Why does a coconut have exactly three "holes"?
- 295. Do you produce more sperm after 1 week of abstinence vs 1 year of abstinence
- 296. Are humans the only species who drink milk as adults?
- 297. Why is the heart not in the middle of the body?
- 298. Does DNA replication in 5' to 3' (leading strand) need RNA primase?
- 299. How reversible is decerebrate posturing caused by brain stem damage?
- 300. What causes muscles to generate heat on contraction?
- 301. Was the mitochondrion or chloroplast first?
- 302. Can humans survive without consuming life?
- 303. What is the normal duration of human sexual intercourse?
- 304. What is the inlet/outlet speed of air going in/out of our mouth during inhalation/exhalation
- 305. Why do orcas eat only the tongue of whales, liver of sharks, etc.?
- 306. What is the average speed of human sneeze?
- 307. Is the swimming pool water harmful to frogs who jump in? If so, how?
- 308. How do trees use Adhesion and Cohesion to move water against gravity?
- 309. Why aren't we allowed to refreeze previously thawed breastmilk in refrigerator?
- 310. How many cell membranes are oxygen and carbon dioxide diffuse through in the lungs?

- 311. Can you identify these tiny black insects please?
- 312. Why does plucking nose hair cause tears in the eyes?
- 313. What is the composition of human feces?
- 314. Why does the face turn pale in dangerous situations?
- 315. What is the difference between transverse section and longitudinal section?
- 316. Calculation of the bacterial growth rate from a spectrophotomer growth curve
- 317. What is the role of glycine in the running buffer for SDS-polyacrylamide gel electrophoresis
- 318. Why do we urinate more when we are nervous?
- 319. No bands show up in gel electrophoresis, not even marker
- 320. Why does NAD+ become reduced if it gains a hydrogen proton?
- 321. What is a suicide plasmid?
- 322. Speciation by polyploidy
- 323. What percent of your blood can you lose before you need a transfusion
- 324. Can one die from pain?
- 325. What is the proper format for genus and species names in latin?
- 326. Why do toenails grow much slower than fingernails?
- 327. What effect has changing pH and salt concentration on protein complexes?
- 328. What is the difference between tonic and phasic firing?
- 329. What is the ratio of breathing rate to heart rate?
- 330. How long does a signal from the brain take to reach the limbs?
- 331. Do Penicillin based antibiotics affect birth control?
- 332. What is the difference between intrinsic and extrinsic apoptosis?
- 333. Can humans eat grass?

- 334. What happens if a non-diabetic receives an injection of insulin?
- 335. Are blood vessels organs?
- 336. What is the difference between endomysium and sarcolemma
- 337. When is Water Produced During Photosynthesis?
- 338. How do lipid-soluble substances diffuse through the cell membrane?
- 339. Difference between Category, Rank and Taxon
- 340. Why does hair grow after trimming but remains at a constant length after a while?
- 341. What happens to our umbilical cord internally as we age?
- 342. Is it theoretically possible to treat filaggrin deficiency with a dietary supplement?
- 343. Origin of term 'confluency' in cell culture
- 344. What is special about the N3 buffer for Qiagen minipreps?
- 345. Why does the ring finger not move independently?
- 346. Why is the DNA helix anti-parallel?
- 347. What do the signs +/+ +/- mean in this image?
- 348. Why is coffee a laxative?
- 349. How many protons are pumped out per pair of electrons from NADH in oxidative phosphorylation?
- 350. Identification What kind of animal leaves these tracks?
- 351. What "emotions" can a snake feel?
- 352. Arm at Heart Level when Measuring Blood Pressure
- 353. Should I dilute DNA with water or elution buffer?
- 354. How do archaea relate to eukaryotes and bacteria?
- 355. Do biological facts determine when a human fetus is considered alive and human?
- 356. What's the minimum distance of focus for the lens of a human eye to reach maximum

flatness?

- 357. How does a smoker's finger or mustache get yellowish by nicotine?
- 358. Molecularly, why can you straighten or perm hair?
- 359. Why do cell membranes have a lipid bilayer instead of a monolayer?
- 360. What is the anatomical term for a two jointed leg?
- 361. How do other primates treat their fingernails?
- 362. What is the number of DNA strands per cell?
- 363. Age of shells on beach
- 364. How much nucleoside triphosphate is required to form one peptide bond during protein synthesis?
- 365. How scientists can be confident that human embryo tail is really a tail?
- 366. Why do people and animals stretch out their bodies and what is causing this behaviour?
- 367. Why does replication require primers while transcription does not?
- 368. Why is it that cats can jump so high for their size, compared with humans?
- 369. How does HCl not burn our stomach?
- 370. What is the exact chemical composition of human body?
- 371. Laying eggs vs giving birth: is there a connection with internal vs. external ears?
- 372. Does posture matter while drinking water?
- 373. Why do Asian people have black hair and Northern people have golden hair?
- 374. Measuring Gross Primary Productivity (GPP) using Light and Dark Bottle methods: Sample Question
- 375. Why would the stroma have a higher pH during photosynthesis?
- 376. What physiological processes within a muscle cause the latent period in a muscle fiber?

- 377. How is membrane capacitance related to the increased speed of saltatory conduction?
- 378. What's the worst that can happen from eating too many spicy peppers? Can you die?
- 379. Why and where do red blood cells die?
- 380. Fate of erythrocytes after splenectomy
- 381. Why does RNA adopt an A-form helix?
- 382. How is ATP involved in muscle contraction?
- 383. Why do we have no enzyme to digest cellulose?
- 384. Why is a lack of oxygen fatal to cells?
- 385. Can humans transdermally absorb minerals from ocean water, and if so how much?
- 386. Identify fuzzy black quarter sized spider with orange on abdomen, in Minnesota
- 387. How does isopropyl alcohol disinfect less in higher concentration?
- 388. What is the minimal focal length of the human eye?
- 389. Identifying a thin, black, worm-like creature with a hammer-shaped head
- 390. Can all mammals swim?
- 391. Why is prothrombin time test not used for heparin
- 392. Are male and female brains physically different from birth?
- 393. Difference between going against and going down a concentration gradient
- 394. How to convert bwa mem output to BAM format without saving SAM file
- 395. Why do our eyes close when we sleep?
- 396. Do T-cells express MHC molecules?
- 397. Why don't rats have a gallbladder, unlike other rodents?
- 398. Where do birds and squirrels go to die?
- 399. What is the function of E. coli bacteria in the human gut?

- 400. Isotropy of sarcomere bands in skeletal muscle cells
- 401. What is the evolutionary advantage of red-green color blindness?
- 402. Does photosynthesis occur on cloudy days or does it require direct sunlight?
- 403. Binomial nomenclature: Why am I seeing different genera with the same species name?
- 404. Can breathing in helium (from balloons for example) cause damage to the throat in the long term?
- 405. Why do we have the tibia and fibula (a 2nd bone) in the lower leg?
- 406. Is consuming proteins different vs. consuming amino-acids and how?
- 407. Calculating number of amino acids in mRNA
- 408. Are these birch or aspen trees?
- 409. What is the difference between taxonomical aids Flora, Manual and Catalogue?
- 410. Why is my peripheral vision better for seeing in the dark?
- 411. Are there animals / mammals which only have one eye?
- 412. Ejaculation without orgasm: is this possible to do it at will without external stimulation?
- 413. Do plants produce any heat?
- 414. Why is a magnesium ion essential for ATP activity in enzymic reactions?
- 415. Difference between Peptone, Peptide and Proteose
- 416. Why can't ciliary muscles in the human eye relax like other muscles?
- 417. Why do cells vary in shape and function when they have the same genome and the same organelles?
- 418. Why are the Galápagos islands so special?
- 419. What are homologous chromosomes?
- 420. What is the difference between SOLiD, 454, and Illumina next-gen sequencing?
- 421. Does the human hand have 27 degrees of freedom?

- 422. DNA is charged negative. Where is all the positive charge in my body?
- 423. Why is ATP produced in photosynthesis used to synthesize glucose?
- 424. Why do human females have permanently prominent breasts?
- 425. Does darker skin color make it easier to live under sun?
- 426. Difference between intervertebral and vertebral foramina
- 427. Explanation of the terms "downstream signaling" and "upstream signaling"
- 428. Is diabetes mellitus a sex-linked disease?
- 429. What is an apomorphy? What is a plesiomorphy? Can someone confirm these definitions?
- 430. Which organs/tissues are defined as "peripheral organs/tissues"
- 431. What is vascular cambium?
- 432. What's a mouth ulcer/canker sore "made of", and why do they develop?
- 433. Which of the cell types commonly found in mammals has the greatest number of mitochondria?
- 434. How long does a mosquito take to land on a host, bite, and fly off?
- 435. Does drinking alcohol having UTI may help to kill the bacteria?
- 436. What is the difference between transformation and transfection?
- 437. Are there human cells, apart from red blood cells and platelets, without a nucleus?
- 438. Who are humans' closest relatives, after primates?
- 439. Are brain cells replaced over time?
- 440. Is there a difference between polarity and hydrophobicity?
- 441. Why does it hurt when water touches cuts?
- 442. How the conjunctivitis virus spread just by seeing a person's eye who is infected
- 443. Why is Lamarck's evolutionary theory considered incorrect?

- 444. How does a TOPflash/FOPflash assay work to detect beta-catenin protein expression?
- 445. What happens when you mix type A with type B blood (and v.v)
- 446. How do red blood cells survive without a nucleus?
- 447. Why are viruses considered microbes?
- 448. Does any organism use both photosynthesis and respiration?
- 449. How does a Coronavirus "test kit" work?
- 450. Do cold blooded animals generate any heat?
- 451. Why is human vision restricted to 400-700 nm?
- 452. Are there any non-mammalian species known that lactate?
- 453. Why are transcripts translated from 5' to 3' direction?
- 454. Can prawns be classified as fish, or is their position ambiguous?
- 455. How much gas is exchanged in one human breath?
- 456. Why do plants have green leaves and not red?
- 457. Are Asian people genetically predisposed to be shorter than Europeans?
- 458. Why is the brain dependent on glucose?
- 459. What is the difference between these terms: clade, monophyletic group and taxon?
- 460. Why does high pH result in the denaturation of DNA?
- 461. When designing primers how important is the GC clamp?
- 462. What happens to snakes that swallow rodents as a whole?
- 463. How many organisms have ever lived on Earth?
- 464. Is it possible to genetically modify a plant at home?
- 465. Can white eggs be considered as non-vegetarian?
- 466. Why is FAD, rather than NAD+, reduced in the succinate dehydrogenase reaction of the Tricarboxylic Acid Cycle?

- 467. Why do plants fruit?
- 468. Do male humans have a mons pubis?
- 469. Constantly wiggling moth pupa will it emerge soon?
- 470. Why does an electrical shock freeze up muscles?
- 471. Do beneficial viruses exist? If so, what examples are there?
- 472. Does cooking or ripening reduce the concentration of solanine in nightshade?
- 473. What is solitary flower?
- 474. Can birds suddenly suspend in the air in one position?
- 475. Time lapse between fresh blood's exposure to air and that same blood turning darker red-brown
- 476. Thermodynamics of spontaneous protein folding: role of enthalpy changes
- 477. Why do bad smells make us vomit?
- 478. What is the purpose of gluconeogenesis?
- 479. Are acid-fast bacteria Gram-positive or Gram-negative?
- 480. Why have humans evolved much more quickly than other animals?
- 481. Dreaming after passing out
- 482. Why do some bad traits evolve, and good ones don't?
- 483. How many humans have been in my lineage? Is it almost the same for every human currently living?
- 484. Difference between facilitated diffusion and secondary active transport in cells
- 485. How sterile is working next to a bunsen burner?
- 486. Evolutionarily, why do male rats and horses lack nipples?
- 487. Why can all animals swim in water without learning to swim but humans cannot?
- 488. Can the third sex be categorized as Male or Female?

- 489. What causes fingerprints to form and why is the pattern formed unique?
- 490. Why is glucose our primary source of energy?
- 491. Why does sunburn cause fever?
- 492. How does Bernoulli's Principle apply to the cardiovascular system?
- 493. Did animals evolve from plants?
- 494. Which are mobile and immobile elements in plants?
- 495. How late in a human pregnancy can a zygote split?
- 496. Why do kefir grains stop growing in soy milk?
- 497. Why are the sex chromosomes called X and Y?
- 498. NaCl role in CTAB DNA complex in DNA extraction
- 499. How many agarose gel bands are typical for circularised DNA
- 500. What do you see when your eyes are closed?
- 501. Difference between Genus, Genus sp. and Genus spp.
- 502. Why are not all species hermaphrodites?
- 503. Why does a fetus drink and urinate into the amniotic fluid?
- 504. What are the advantages and disadvantages of being ambidextrous?
- 505. At what temperature do human bones disintegrate?
- 506. Why is Fast Fourier Transform applied to raw EEG data?
- 507. Bright green caterpillar with long white stripes, few hairs, no extensions, possibly Noctuidae
- 508. What is meant by 'individuals do not evolve, populations do'?
- 509. Why does scar tissue change color?
- 510. What is the cell matrix?
- 511. Lifeless Lake in Siberia

- 512. How is trangender female different from normal female biologically?
- 513. Why 20 amino acids instead of 64?
- 514. Why is the opposite of plantar flexion called "dorsiflexion"?
- 515. Why can't a corn cob have 13 rows of seeds?
- 516. Serotonin Does being aroused make you sleepy?
- 517. Why are men stronger than women?
- 518. What determines if an allele is dominant or recessive?
- 519. Are there any animals that are both poisonous and venomous?
- 520. What is the correct model for enzyme-substrate complementarity?
- 521. Why do different bacteria have different shapes?
- 522. Why do Type II Restriction Endonucleases cleave at palindromic sequences?
- 523. Why doesn't recombination occur in male Drosophila?
- 524. What is the maximum altitude where humans can survive?
- 525. Can DNA be denatured at acidic pH?
- 526. Why do bacteria die in a high sugar content environment?
- 527. Why is it that heterozygous loci appear as two separate bands during gel electrophoresis while homozygous loci appear as one band?
- 528. Branch length in phylogenetic trees
- 529. How long does antibiotic-dosed LB maintain good selection?
- 530. Is lemon water an alkalizing agent in the body?
- 531. How long can a bee surive in a jar?
- 532. Why do plants store energy as carbohydrates and not as fats?
- 533. What does the (-) in the molecule name mean?
- 534. How do SDS-PAGE gels differ in a Bis-Tris system vs. a Tris-Glycine system?

- 535. How large is the variability in human bone thickness, and is "big boned" a real thing or not?
- 536. What type of Insect Egg is this?
- 537. Formula for number of divisions required to form x number of cells (Mitosis and Meiosis)
- 538. The number of nipples (breasts) a species has?
- 539. Origin, or source, of rhesus negative in human blood
- 540. What does the 'V' stand for in ECG electrode names?
- 541. Do proteins generally contain phosphorus and sulfur?
- 542. Why does a high osmotic pressure pull water in, yet a high hydrostatic pressure pushes water out?
- 543. Why do mice have a higher metabolic rate than humans?
- 544. On which strand does the promoter sit?
- 545. What is the functional difference between hemoglobin and ferritin?
- 546. Does taking a shower have the same effect on muscles as warming up?
- 547. Why do three nucleotides code for one amino acid? Why not 5 nucleotides?
- 548. Does an annealing temp higher than primer's Tm contribute to primer dimer?
- 549. Why is dimethyltryptamine (DMT) released during death?
- 550. What am I looking at in Franklin's Photo 51 of DNA?
- 551. Why is the number of PCR cycles limited?
- 552. Why isn't vomit corrosive?
- 553. If we add only 1 primer in PCR
- 554. Equation for accurate prediction of PCR yield
- 555. RNA polymerase and DNA helicase
- 556. What is this white/translucent with brown back, larva/worm creature I found, in the UK,

- on my lettuce?
- 557. Is cell wall and cytoplasm an organelle?
- 558. What do the Clustal Alignment Symbols Mean?
- 559. Why does temperature shock kill fish?
- 560. What do ants do with human finger nails?
- 561. How long do the periods of systole and diastole last?
- 562. How many honeybees are there, and how has the number changed across time?
- 563. Near point and far point of myopic eye
- 564. Why do flies leave dirty spots on shiny/glossy surfaces?
- 565. Why do yeast ferment Equal sweetener
- 566. Why should evolution not be equated with progress?
- 567. How many (taxonomic) families are there?
- 568. Does one parent transmit more DNA to the offspring than the other one?
- 569. If body temperature is 37°C (98.6°F), why are most people more comfortable at around 21°C (70°F)?
- 570. Why do we have more sweat glands in our palms?
- 571. Why doesn't crossing over happen in mitosis?
- 572. Ratio of bleach to water required to disinfect COVID-19?
- 573. What is the significance and method behind Ramachandran plots?
- 574. Presence of MHC on red blood cells
- 575. Do oysters feel pain?
- 576. How to protect my mounted insect specimens from ... insects?
- 577. How does one calculate how to dilute a solution to working strength?
- 578. Why is glycine considered a nonpolar amino acid but a polar molecule?

- 579. Do crocodiles age?
- 580. Why upper surface of leaves is more green and shiny than the lower one?
- 581. Pathophysiology of pink frothy sputum in pulmonary edema
- 582. Do all proteins start with methionine?
- 583. Value of r (intrinsic rate of natural increase)
- 584. Why does ice reduce swelling?
- 585. Nerves, Neurons, Axons and Dendrites by Example
- 586. What makes DNA sticky-ends sticky?
- 587. Why would taking antibiotics increase stamina and energy?
- 588. How do I deal with sticky and viscous samples from cell lysates?
- 589. What is the difference between Founder effect and Bottleneck effect?
- 590. Why does A pair with T and G with C?
- 591. What is the difference between a mechanistic and a statistical predictive model?
- 592. What's the technical difference between fainting (and being unconscious) and falling asleep (and sleeping)?
- 593. Where does the term "cos site" come from?
- 594. Why does a blood test show ethanol when no alcohol was consumed?
- 595. Why do I always close my eyes when someone takes a photo of me using a flash?
- 596. What's the difference between protein and DNA behaviour during agarose gel electrophoresis?
- 597. Does muscle get bigger by increase in size of individual cells or increase in number?
- 598. What is the H+ gradient in mitochondria?
- 599. Possible genotypes for blood types?
- 600. What fruits will naturally ferment?

- 601. What part of the cactus photosynthesizes?
- 602. Why do human eyes glow red on a photo and dog's eyes green?
- 603. What does "fit" mean in "survival of the fittest"?
- 604. Is it painful for the hen to lay eggs?
- 605. How much heat can a human sustain?
- 606. Stop codons and exons?
- 607. Why is PEG important for efficient yeast transformation?
- 608. Why are potassium channels slower than sodium channels?
- 609. Is it biologically possible for an adult's eye color to change?
- 610. Why do I want to urinate when I touch water?
- 611. Can a carnivorous animal consume plants with no adverse effects?
- 612. What is the difference between a spore and a cyst?
- 613. Why does the heart use lipids (and not glucose)?
- 614. Why don't the apples seeds from grafted trees produce the same kind of apples?
- 615. What is the concentration of ATP in an average cell?
- 616. Upon drinking water for the first time in a long time, why do I sweat?
- 617. Does capsaicin in food kill bacteria?
- 618. Why are there no organisms with metal body parts, like weapons, bones, and armour? (Or are there?)
- 619. What are the functions of disulphide bonds?
- 620. What is the definition of a stringent/relaxed plasmid?
- 621. Do Archaea have membrane-bound organelles?
- 622. Why are only 6 water molecules formed in the aerobic degradation of glucose?
- 623. How many cells are in prophase on this onion root tip slide?

- 624. Why do pigeons kill their chicks when touched by a human?
- 625. What is a lip? (upper lip and lower lip)
- 626. Why does skin sometimes suddenly itch when you stretch it?
- 627. What was the biological mechanism that allowed Tarrare to eat so much?
- 628. What effect does vortexing have on a fluid sample that simple mechanical shaking does not?
- 629. Does bright environment strain eyes more than dim?
- 630. What is the normal blood water content
- 631. Are mature erythrocytes prokaryotic?
- 632. Explanation of the meaning of high-throughput
- 633. What cells would have the CD3 marker on them (other than T-cells)
- 634. How come large herbivores have such thin legs?
- 635. Do bacteria die of old age?
- 636. Why don't McDonald's fries decompose?
- 637. What is the purpose of segments in citrus fruit?
- 638. Why are hybrids infertile?
- 639. Is there an evolutionary reason for the 5 electron transport complexes in plants and animals?
- 640. Why does autosomal trisomy have more adverse effects than sex choromosome monosomy or trisomy?
- 641. Can you consider a human as alive, or is it the cells on the body that are alive?
- 642. What is the role of TATA box in transcriptional regulation?
- 643. What is the equivalent of shutter-speed in Human eye?
- 644. Why is our voice deeper in the morning?
- 645. Why does it hurt when you take sweets, if you have cavities in your teeth?

- 646. Do flies actually take off backwards?
- 647. Why do we sweat after drinking water and running?
- 648. Bad Eyesight and Evolution
- 649. RNA or ribosome, which one moves during translation?
- 650. How to prepare sample for SDS PAGE?
- 651. Possible? When a pregnant woman suffers an organ damage, fetus would send stem cells to the damage organ to help repair it?
- 652. What is the difference between absolute and relative fitness?
- 653. Why is polyploidy much more common in plants than in animals?
- 654. What happens to blood after a person dies?
- 655. Does prolonged exposure to low pitch but low volume noise affect hearing or stress?
- 656. Species Identification: Waterborne larvae, Texas USA
- 657. What are the differences between how glucagon and cortisol work to increase blood sugar?
- 658. Confusion on polarity and hydrophobicity of Proline, Tyrosine and Cysteine?
- 659. Potato with purple veins!
- 660. Are all dinosaur bones radioactive?
- 661. Is epimysium same as fascia?
- 662. How to calculate relatedness in haplodiploid organisms (mainly full sisters and full brothers)?
- 663. Which blood vessel carries the most impure blood?
- 664. Do we need to drink less water in humid weather than in dry weather?
- 665. How would constantly growing nails have aided early human?
- 666. What makes teeth feel sticky after drinking Coca-Cola?
- 667. Why do ants live so long?

- 668. Why are certain baby (water)fowl yellow?
- 669. What is a pA(2) value?
- 670. Why is mRNA needed in the Protein translation?
- 671. Why do humans seem so much more prone to disease than animals?
- 672. When is the second polar body extruded from the egg nucleus?
- 673. What concentration of table salt is needed to kill bacteria in sweaty gym clothes?
- 674. What's the evidence against SARS-CoV-2 being engineered by humans?
- 675. If I graft two trees together while young, will they grow as one plant?
- 676. meaning of the "reads" keyword in terms of RNA-seq or next generation sequencing
- 677. How do trees lift water higher than 10 meters?
- 678. What are the bare minimum nutrients required to survive as a human?
- 679. Under what conditions does the body burn fats, proteins and carbohydrates?
- 680. Why are red blood cells considered to be cells?
- 681. Does the string "...CATCAT..." appear in the DNA of Felis catus?
- 682. How do plants get carbon?
- 683. Genetic linkage greater than 50 centimorgans
- 684. How to obtain bacteria samples at home?
- 685. Why is the Trendelenburg position used when placing and removing Central Venous Line catheters in the sub-clavian vein?
- 686. Does ethanol destroy RNase?
- 687. Why are there exactly four nucleobases in DNA?
- 688. What is the explanation for the smaller number of tRNA than codons?
- 689. Difference between the spinal cord and vertebrae column
- 690. Why do humans have only two nipples?

- 691. Does sweat contain DNA information?
- 692. How can I resuspend a cell pellet without harming the bacteria?
- 693. Does NADH inhibit gluconeogenesis?
- 694. What portion of the electromagnetic spectrum do cats see?
- 695. Does Sansevieria trifasciata really absorb Carbon Dioxide at night?
- 696. What causes swelling after impact?
- 697. Do octopuses have better eyes than humans?
- 698. What is the difference between Reservoir and paratenic hosts?
- 699. Why are there no known animals with an odd number of legs?
- 700. What species is this black, blue and white bird?
- 701. How does the brain's energy consumption depend on mental activity?
- 702. Why did humans become bipedal?
- 703. Why does the sweat of children not smell like adults?
- 704. At what point during an action potential are the sodium potassium pumps working?
- 705. Multiple start and stop codons in mRNA and pre-mRNA
- 706. What is the difference between sequence, reads, and contigs of genetic material?
- 707. How to interpret Percent identity matrix created by Clustal Omega?
- 708. Does the DNA sequence of a butterfly match that of the caterpillar it used to be?
- 709. How precisely can we sense temperature differences?
- 710. Do trap door spiders have 10 legs?
- 711. Why do parasites sometimes kill their hosts?
- 712. How does a plant grow before photosynthesis is possible?
- 713. Why do reptiles still move even after death?

- 714. Why can't you taste food when you have a cold?
- 715. Can defibrillation be done with a car battery?
- 716. What is our skin made up of?
- 717. What is the difference between the mitotic spindle and microtubules?
- 718. Why isn't acetyl-coA an entry point for gluconeogenesis?
- 719. Difference between protein channels, protein carriers and protein pumps?
- 720. Does donating blood lower testosterone levels?
- 721. How to increase the shelf life of yogurt without refrigeration?
- 722. Solving Hardy Weinberg problems
- 723. Why is DNA antiparallel? Can it be parallel?
- 724. Cannot see images beyond a certain magnification with a microscope
- 725. Why does ear wax taste sour?
- 726. Is there an acceptable term for 'male fox' other than 'dog'?
- 727. What decides whether a lysogenic cycle or a lytic cycle will take place?
- 728. Why should I degas my gel solution for polyacrylamide gels?
- 729. How many genders are there?
- 730. Why is AUG the initiation codon?
- 731. Why do cyanide and arsenic smell like almonds and garlic, respectively?
- 732. Do we consume DNA and proteins of other organisms?
- 733. How many nucleotide pairs code one gene?
- 734. How does cholesterol affect the fluidity of a plasma membrane?
- 735. What are some of the general characteristics of the DH5 alpha strain?
- 736. My hand was stabbed with a pencil tip 10 years ago why is the graphite still visible?

- 737. What animal has the longest juvenile period?
- 738. What are the consequences of voluntary total celibacy?
- 739. Why can't people talk while inhaling?
- 740. How do plants get their O, for respiration during the night?
- 741. Why do Bee stings cause swelling?
- 742. The alignment of fingers in our hand
- 743. Why don't we have hair on palms?
- 744. What is difference between breed, variant, subspecies and species?
- 745. Why do cells not store glucose?
- 746. How does the cornea breathe during sleep?
- 747. Are all action potentials the same shape and amplitude when graphed with respect to time?
- 748. What is the life cycle of a wart?
- 749. Why do we produce so many sperm?
- 750. How tolerant are ants to cold?
- 751. Why does uncompetitive inhibition decrease the Michaelis constant?
- 752. Supercomputer Vs Human Brain
- 753. What is an 'ex vivo' experiment?
- 754. Bug Identification: Is this small tubular, black bug a bed bug?
- 755. What are fish seeds?
- 756. Are sensory receptors neurons?
- 757. Difference between inbreeding and interbreeding
- 758. What are the roles of guanidine-HCl and ethanol in binding of DNA to silica?
- 759. How does a fetus retain a blood group different from its mother?

- 760. Why does cucumber skin kill ants?
- 761. Why is the blood thick in Wet Cupping / Hijama
- 762. Does mixing alcoholic drinks really make you more drunk?
- 763. What's the difference between a plant and an animal?
- 764. Why does black and yellow indicate danger?
- 765. What is the advantage of circular DNA in bacteria?
- 766. How is the fluoride in toothpaste absorbed?
- 767. Why are there N's after Sanger sequencing?
- 768. What is the mIU unit as used in hCG hormone levels?
- 769. Why does closing one eye in bright light allow me to open the other?
- 770. Why Doesn't Hypercalcemia Cause Muscle Spasms?
- 771. Why aren't organelles considered alive?
- 772. Why do we weigh less in the morning?
- 773. How do we know the presence of light when our eyes are closed?
- 774. Health effect of worm in Guava
- 775. Is there an RGB equivalent for smells?
- 776. What happens when seeds are refrigerated before planting?
- 777. If plants benefit from carbon dioxide, why is car traffic something bad?
- 778. How to convert skin temperature to core temperature?
- 779. Are all cells organisms?
- 780. What is/are the molecular differences between HDL and LDL cholesterol?
- 781. Why do birds move their heads abruptly?
- 782. Does endo- and (or) exocytosis require energy? Do they belong to active / passive transport?

- 783. What is the human energy consumption by organ?
- 784. Is it possible for a person to become "reinfected" with the same strain of a virus?
- 785. Are gametes diploid or haploid?
- 786. Does carbon dioxide from carbonated drinks enter the bloodstream?
- 787. Can the human eye distinguish colors in the periphery?
- 788. How do warm-blooded animals keep their temperatures constant?
- 789. Where do transamination and deamination take place?
- 790. What does the human body use oxygen for besides the final electron acceptor in the electron transport chain?
- 791. Is there any virus that contains both DNA and RNA in its genome?
- 792. What are the differences between white and brown adipose tissue?
- 793. Why do neurons die so fast without oxygen and nutrients?
- 794. Black/dark-red smooth West African worm, full of red blood
- 795. What is this black and white worm in a white case?
- 796. Can a person survive on blood in place of water?
- 797. Why do some people have cold hands and some have warm?
- 798. What is the difference between "cistron" and "gene"?
- 799. Why does having cold hands hurt?
- 800. What makes a gene dominant or recessive
- 801. What's the (or some of the) minimum(s) amount of atmospheric carbon dioxide needed by plants?
- 802. GPCRs: Gi and Gs
- 803. X Linked Hardy Weinberg Equilibrium Problem
- 804. How can histidine be classified both as positively charged and hydrophobic?

- 805. Why shouldn't dogs eat chocolate?
- 806. What effect does the Barr body have, in relation to female Turner syndrome?
- 807. What is a group of tortoises called?
- 808. why does blood when oxidized over time become bluish green?
- 809. What is the evolutionary reason behind the fragility of teeth?
- 810. Why don't phospholipid bilayers dissolve?
- 811. Why do different humans look different?
- 812. Do camels have nucleated RBCs or enucleated RBCs?
- 813. Why is beta-mercaptoethanol often added to cell culture media
- 814. Are we more attracted to people of the same ethnicity?
- 815. Why does blood come from mouth when people are shot in the chest area?
- 816. What kind of a microscope do I need to see cell organelles?
- 817. Difference between mutation and DNA damage
- 818. What is the difference between hilum of the lung and root of the lung?
- 819. Are humans more adapted to "light mode" or "dark mode"?
- 820. When has an organism evolved enough to be called a new species?
- 821. Why does the intensity of an action potential once generated at the trigger zone remain undistured throught the axon?
- 822. Is a butterfly one or two animals?
- 823. How many cyclic and non-cyclic photo-phosphorylation is required to produce one molecule of glucose?
- 824. Why is the Red Fox colored bright orange?
- 825. Is there anything that is completely non-toxic to humans at any dose?
- 826. Why are there both stop and start codons?

- 827. Which are the best apps and websites for insect identification?
- 828. Do human cells contain only one copy of the genome?
- 829. What is the distinction between the terms detrivores, decomposers, saprotrophs and saprozoic organisms?
- 830. How long will norovirus live?
- 831. Effect of closed eyes on balance?
- 832. What is the difference between a species tree, a gene tree and a phylogenetic tree?
- 833. Why do Guinea Pigs chirp / sing?
- 834. For the human head, which direction is anterior, and which direction is ventral?
- 835. Why is polyploidy lethal for some organisms while for others is not?
- 836. Why is a mosquito feeding on human blood not a parasite?
- 837. What's the difference between Ki and IC50?
- 838. Why do most mammals have long snouts?
- 839. Is there interphase between meiosis I and meiosis II?
- 840. If human eyes watch an area, what's the shape of its capturing shape? Rectangular? Half spherical?
- 841. What are the advantages and disadvantages of using beta-galactosidase compared to luciferase as a reporter gene?
- 842. Why does Edema occur in Kwashiorkor?
- 843. Why does anxiety cause diarrhea or constipation?
- 844. How do I measure bacterial growth in agar dishes (either by cell mass or by cell count)?
- 845. Problem on Probabilty of a restriction enzyme cutting a random DNA sequence
- 846. Why can action potentials not be initiated at dendrites?
- 847. What's the difference between stabilizing selection and balancing selection?

- 848. How do ants know where they are going without eyes?
- 849. Why have whales and dolphins not evolved to have gills?
- 850. How should species density be calculated for a clumped distribution?
- 851. Are all pathogens parasites?
- 852. What is the difference between muscle fascicle and muscle bundle?
- 853. Why do pink rain lilies flower only after rains, and not from being watered?
- 854. Difference between genetic engineering and synthetic biology
- 855. What is the difference between polar and charged amino acids?
- 856. How should I ship plasmids?
- 857. Why can't we feel pain when the eye lid touches the eye ball?
- 858. difference between neurotransmitters and hormones
- 859. Blue light in a fridge. Is it really beneficial or just marketing?
- 860. Where do migratory birds go when it rains?
- 861. Can I drink warm/hot tap water?
- 862. How does prolonged exposure to high frequency noise affect hearing?
- 863. What is the difference between SNP and STR?
- 864. Why are bald heads so "shiny"?
- 865. Why doesn't the human skin grow back exactly how it was before being damaged?
- 866. Do human somatic cells have 46 chromosomes all the time?
- 867. How many abdominal sclerites would be there in a cockroach?
- 868. Do trees really get a large share of their mass from the carbon in the air?
- 869. Stimulating an axon causes impulses to travel both ways?
- 870. What is the difference between the cellular affix -cyte and -blast?

- 871. Is it correct that the body only responds to the most painful stimulus?
- 872. Why is oxygen needed for the electron transfer phosphorylation?
- 873. How did the first life form on Earth reproduce without DNA?
- 874. Why do endotherms need more food than ectotherms?
- 875. Which organisms have introns?
- 876. Are there any motile plants?
- 877. Is there any relationship between heartbeat rate and life span of an animal?
- 878. Biological siblings possible with <9 months age difference?
- 879. Why do grapes not pea shrink when placed in strong sugar solution?
- 880. Histidine aromaticity
- 881. What is the maximum number of babies a human woman can have?
- 882. Is it known how the first viruses formed?
- 883. Why extract DNA from certain white blood cells instead of whole blood?
- 884. How does inorganic phosphate inhibit alkaline phosphatase?
- 885. How does a pine cone open?
- 886. How does the body switch between aerobic and anaerobic respiration?
- 887. Can plants produce oxygen at night (without light)?
- 888. What are these white spots on a dracena
- 889. Manual Primer Design for a gene on the reverse strand
- 890. What do you call that part of the muscle that connects directly to the bone?
- 891. Reasons why people say that AIDS/HIV doesn't exist
- 892. Does 1kg of lettuce have more energy than 1kg of beef?
- 893. Does sample buffer require EDTA for protein separation on SDS PAGE?

- 894. Multi-nucleated cells: advantages and examples?
- 895. What is the function of nodes of Ranvier in axons?
- 896. What is the difference between sinew and tendon?
- 897. For emphysema, which of the respiratory volumes is affected?
- 898. What are differences between formation of embryonic disc in chick and mammal embryo?
- 899. Relationship between turgor pressure and osmotic pressure?
- 900. Can HIV be transmitted via mosquitos?
- 901. Strongest muscle of Human Body
- 902. Why does sex last so long?
- 903. Is the complement system a part of innate or adaptive immunity
- 904. How many mosquitoes would it take to "drain" enough blood to put a person into shock?
- 905. Will humans and animals be harmed by frequencies outside their hearing range?
- 906. Does the use of "var", "x", and/or "ssp" in a scientific name provide specific information?
- 907. What does phasing mean?
- 908. How do marine mammals control buoyancy?
- 909. What is the role of tracrRNA in CRISPR-cas9?
- 910. Are there cats with black skin?
- 911. What does the term 'bioavailability' mean?
- 912. What are these shrimp-like insects in my cat's water bowl that appear overnight
- 913. Are spiders part of the study of entomology?
- 914. Why can cones detect color but rods can't?
- 915. Is it true that viruses cannot be seen with phase-contrast microscopy?

- 916. Why sister chromatids and daughter cells but not brother chromatids and son cells?
- 917. What is the purpose of measuring both VS (volatile solid) and TS (total solid)?
- 918. What is the difference between "Bisphosphate" and "Diphosphate" in biochemistry?
- 919. What is genomic imprinting?
- 920. Why do red blood cells maintain Iron in the Haem group in the +2 (ferrous) oxidation state?
- 921. Why pick just a single bacterial transformed colony
- 922. Can cell exist without Ribosomes?
- 923. Why babies cry after they are born?
- 924. Why scientific names of animals & plants are made difficult to spell & remember?
- 925. Why are irises unique?
- 926. Is evolution a fact?
- 927. Why do you need you room dark for melatonin release?
- 928. How did aquatic dinosaurs go extinct?
- 929. How difficult is to renature a protein?
- 930. Free software for measuring parts of an image?
- 931. What are the "minimum requirements" for a single cell?
- 932. Why do I see the world in blue when I open my eyes?
- 933. Confusion about resting membrane potential and the Na/K pump
- 934. How is Hypertonic Urine Produced in a Mammalian Kidney?
- 935. Green Film Build up in Glass Water Bottle
- 936. Are Whales More Intelligent Than Humans?
- 937. How do inward rectifier potassium channels work in the heart?
- 938. How many ATP molecules are formed?

- 939. Identify little green long legged bug
- 940. Small mottled beetle identification
- 941. Consequence of touching Formaldehyde
- 942. Are identical twins clones?
- 943. Apart from nerve cells and muscle cells, what types of cells do not undergo mitosis in adult man?
- 944. What is this spider? Two black stripes
- 945. What is the appropriate method to send a strain?
- 946. What would cause crows to be attracted to a human body?
- 947. How is Glyceraldehyde 3-phosphate converted into glucose?
- 948. Diffusion of Hypotonic solution into solution with glucose and starch
- 949. Why Crocodiles don't eat Hippos?
- 950. Does animal blood, esp. human, really have similar salinity as ocean water, and does that prove anything about evolution?
- 951. Are there animals which can see movements better than shapes or colors?
- 952. Making sense of enzyme Km comparisons
- 953. Do ants see, have brain?
- 954. Do Red blood cells(mammals) really have no organelles?
- 955. Why do some vegetables taste bitter?
- 956. Why do neurons have only one axon?
- 957. Questions about insects eating flour and living in the cracks of a wooden cutting boards
- 958. Photosynthesis: What Powers the Splitting of Water?
- 959. How is the size of a gene defined?
- 960. Is Bramble (blackberry bush) carnivorous?

- 961. What's the effect of oxygen deficit on plants?
- 962. Is episome a plasmid or a virus?
- 963. What are housekeeping and constitutive genes?
- 964. Why do snakes not have eyelids?
- 965. How does a brain distinguish stimuli?
- 966. How do scientists kill the bacteria they themselves made resistant?
- 967. Just how dangerous is ethidium bromide?
- 968. Why do Hot/Cold drinks taste sweeter once returning to room temperature?
- 969. Hamming distance between two DNA strings
- 970. Is Chargaff's rule really applicable?
- 971. How does boiling water revive cut flowers?
- 972. How much weight/volume do microbes occupy within the human body?
- 973. Are the social-distancing measures implemented against SARS-CoV-2 also suppressing the spread of other viruses?
- 974. Is the promoter region of a gene transcribed?
- 975. Life without DNA?
- 976. Unsure about definition of "n" and "C" values in mitosis
- 977. Why is it beneficial for trees to grow that tall?
- 978. Average dimensions of the human back (anthropometry)
- 979. Why is only one primer used for DNA sequencing instead of two?
- 980. Does human brain produce nicotine?
- 981. Larger Ant in trail
- 982. How many molecules NADH are produced in the Krebs Cycle?
- 983. How do Proteins migrate in MES vs. MOPS

- 984. Why is the human ear most sensitive to 4000 Hz tones?
- 985. What is the strand specificity of a reference genome?
- 986. Why we do not get hurt from HCl secreted in the stomach?
- 987. Can you answer Ray Comfort's question on Biological Evolution?
- 988. What causes morning wood?
- 989. Small yellow bug with black head and three black stripes on the back
- 990. Separating DNA Fragments by Gel Electrophoresis. Are all the strands for one size the same?
- 991. How long do your eyes need to adapt to darkness and reach full contrast?
- 992. Why should benzalkonium chloride (an antifungal agent) be used during your laundry machine's "rinse" cycle, not its "wash" cycle?
- 993. What causes the colors we see in eyes?
- 994. What is "enzymatic activity"?
- 995. How does this headless fish still move?
- 996. Why does evolution not make our life longer?
- 997. Preferred Aspect Ratio for Human Eyes
- 998. Wim Hof Method claims Alkaline Blood is Good. Contradictions? Counterproof?
- 999. Do male animals visually perceive females as more/less attractive?
- 1000. Given ATP synthase's structure, how can 3.33 protons ultimately synthesize one and only one ATP?
- 1001. How long will a vegetable live for after being harvested?
- 1002. Why haven't prey evolved the ability to always outrun their predators?
- 1003. How different are these terms: Phylloclade, Phyllode, Cladophyll and Cladode?
- 1004. Mechanism of Myosin Head Bending in Cross Bridge Cycle Power Stroke Phase
- 1005. What is exactly a phosphoester bond?

- 1006. How does formaldehyde cause protein-DNA crosslinking?
- 1007. Gel Electrophoresis loading dye and more
- 1008. Why is carbon dioxide produced in alcohol fermentation but not in lactic acid fermentation?
- 1009. How does the human body metabolize gasoline?
- 1010. What is the speed of blood?
- 1011. Photosystem 1 and 2; P680/P700; Chlorophyll a/b
- 1012. Why would a plant evolve to produce an addictive chemical?
- 1013. How fast can a panda run?
- 1014. Difference between viral and human genetic material
- 1015. Why do animals use glycogen for their polysaccharide storage whereas plants use starch?
- 1016. What causes the human body to "jump" when we get a shock?
- 1017. Which hormones can cross the blood brain barrier?
- 1018. Reason for conversion of glucose to fructose in glycolysis
- 1019. What is the function of epidermal ridges on human fingers (that produce fingerprints)?
- 1020. what is the difference between early blight of potato and late blight of potato?
- 1021. Use of amino-acid sequences versus use of nucleotide sequences in phylogenetic analysis
- 1022. Why is the Hydra Biologically Immortal?
- 1023. Why does the stomach ache if you take a brisk walk after lunch or dinner
- 1024. Why do adult insects have 6 legs?
- 1025. Do birds have navels?
- 1026. Why do people sing?
- 1027. Why doesn't the herbicide 2,4-D damage lawn grass?

- 1028. Carbon Monoxide and High-Oxygen-Affinity Varieties of Hemoglobin
- 1029. What causes a 'stuffy' or 'runny' nose when you have a cold?
- 1030. What is the advantage of using starter cultures for growing bacteria?
- 1031. How's the membrane potential restored to resting state after hyper polarisation?
- 1032. Do humans have Coelom?
- 1033. Is it true that cats can drink sea (salted) water?
- 1034. Can a woman give birth to twins with different fathers?
- 1035. What is Pan for in pan-caspase?
- 1036. Is glycolysis the beginning part of fermentation, or does fermentation follow glycolysis?
- 1037. Are transgender people born physically different from others?
- 1038. Solubility of DNA in water
- 1039. What is the benefit of fever during infections?
- 1040. What is the definition of "dry weight" and "dry cell weight"?
- 1041. Difference between Condensin and Cohesin proteins?
- 1042. What is the effect of non-vaccinated people on vaccinated people?
- 1043. Why did abiogenesis only happen once?
- 1044. How to calculate the geometric mean titer (GMT) of titers from a haemagglutination assay (influenza)?
- 1045. Possible reasons for DNA getting stuck in well
- 1046. What is a microsome?
- 1047. Why are H+ ions pumped out instead of in during cellular respiration
- 1048. Why do we like salt?
- 1049. How do lilies sense day and night and open and close their flowers?

- 1050. How are lysosomes formed?
- 1051. Plasmolysis vs Flaccidity in cells
- 1052. Do men and women have the same number of genes?
- 1053. Regulation of Glycolysis and other pathways at 'irreversible' reaction steps
- 1054. How do I clean phenol contaminated RNA without losing any of the sample?
- 1055. Do babies resemble their father?
- 1056. Why isn't a virus "alive"?
- 1057. Difference between Bioscience and Lifescience
- 1058. Explanation for hyenas asymmetric legs length
- 1059. Why do stars disappear when I look at them?
- 1060. What are chiasmata?
- 1061. Why do smaller mammals move intermittently?
- 1062. Why is there more variation in proteins than genes?
- 1063. What sections of the brain can be removed without causing instant death?
- 1064. Is there a medical condition in which you can't cut your hair?
- 1065. How does aspirin "thin" blood?
- 1066. Trauma, blood loss and thirst
- 1067. What is the difference between abiogenesis and spontaneous generation?
- 1068. Why we shiver/tremble/shake while performing some work which requires high accuracy?
- 1069. Why do obese people tire quickly?
- 1070. Why cancer disease is named after sun signs?
- 1071. How does a Plasmodium move?
- 1072. Cause of Crease in Drupe Fruit

- 1073. What is an irreversible reaction?
- 1074. How did the first self replicating organism come into existence?
- 1075. How did the Spanish Flu disappear?
- 1076. Is it better to take a half dose of paracetamol and a half dose of ibuprofen together rather than a full dose of either?
- 1077. What is immunopanning (vs. immunoprecipitation and FACS)?
- 1078. Why does yawning impair hearing?
- 1079. What is the relationship between sexual and natural selection?
- 1080. Can plants suffer from CO2 poisoning?
- 1081. Ammonia smell after physical exercise? What is the explanation?
- 1082. Essential amino acid codons
- 1083. Do the enzymes and compounds in saliva help with stain removal?
- 1084. Do pulled hair from the root grow back?
- 1085. Why isn't the phosphoglycerate kinase reaction of the glycolysis pathway irreversible?
- 1086. How do the first and second law of thermodynamics adhere to breakdown of glucose?
- 1087. What is the difference between second and third generation sequencing
- 1088. Why is the bond between oxygen and iron in hemoglobin at a specific angle?
- 1089. What did we learn with Nazi human experimentation?
- 1090. What would cause bands to appear lower on a nonreduced SDS-PAGE gel?
- 1091. Why do chickens not try to get up if laid on their backs?
- 1092. What does dominant generation mean
- 1093. Can ants sense food from a long distance?
- 1094. Why do people sleep with their eyes open?
- 1095. Is human face more resistant to cold than other body parts?

- 1096. Why are antibiotics prescribed with a viral infection like a cold?
- 1097. What is the difference between a predator and a parasite?
- 1098. How does Golgi's neural histological stain work?
- 1099. Primary function of the enzyme lipoprotein lipase
- 1100. Why is the neuronal plasma membrane more permeable to potassium ions than sodium ions?
- 1101. How does a baby deer stand the day it's born?
- 1102. Why do I still see a bright light after looking directly at it?
- 1103. Do all cells produce the same proteins?
- 1104. Is there any complex organism that is both autotroph and heterotroph?
- 1105. What is the difference between rheobase and threshold?
- 1106. Why do we squint when tasting very sour things?
- 1107. If evolution is not about increased complexity, why does so much complexity evolve?
- 1108. Autosomal Recessive Trait when skipping one generation
- 1109. Ancestral Allele explanation
- 1110. What is the closest species to humans in animal kingdom?
- 1111. Why are plants classified in living things?
- 1112. Is the DNA different in each type of cell? What DNA is passed to offspring?
- 1113. How do people who have lost both of their legs produce red blood cells?
- 1114. What's the name of the fibrous strands that hold the seeds in a pumpkin?
- 1115. What is a focal copy number variation?
- 1116. What is the standing genetic variation?
- 1117. Is cancer caused by vitamin B17 deficiency?
- 1118. Why do we have nerves in our teeth?

- 1119. Isopropanol precipitation of DNA duration and magnitude of cold storage
- 1120. How long does it take for dopamine to reach normal levels after a significant drop?
- 1121. Why are bruises not lethal?
- 1122. Why can't we move our toes and some fingers separately?
- 1123. Breathing becomes harder in certain wind conditions
- 1124. What are the major causes of mutations in DNA?
- 1125. Renin enzyme or hormone?
- 1126. Can any protein be phosphorylated?
- 1127. Is this bedbug or book louse?
- 1128. Why are 6 turns of the Calvin cycle needed to make one molecule of glucose?
- 1129. Can animals like squirrels leave "gifts" or tribute for humans?
- 1130. What does this equation about DNA replication mean?
- 1131. What causes people to feel sleepy due to recycled air?
- 1132. What is the meaning of "E-value" in the BLAST search?
- 1133. What's the reason for isovolumic contraction and isovolumic relaxation?
- 1134. Why do plants need oxygen through their roots?
- 1135. What is meant by a muscle fiber being glycerinated?
- 1136. How do you calculate or predict the charge of a protein at pH 7?
- 1137. Differences between Gradualism and Uniformitarianism
- 1138. Are these cats calico?
- 1139. Can the dendrites of sensory neurons be a meter long?
- 1140. Do aquatic plants have stomata?
- 1141. Definition of "Niche Complementarity"

- 1142. Dark veil when getting up too fast
- 1143. Difference between strand-specific and not strand-specific RNA-seq data
- 1144. What is happening when we get a tan?
- 1145. How much energy does human body fat contain?
- 1146. How to avoid air bubbles while pipetting?
- 1147. How did the cardiovascular system evolve?
- 1148. Why do people feel pleasure when using roller coasters / centrifuges?
- 1149. Is there a purpose for nucleated red blood cells in reptile, avian and fish blood?
- 1150. is there an easy way to remember taxonomy?
- 1151. What is a set of chromosome and what is a pair of chromosome
- 1152. Interpreting graph of mitosis and meiosis
- 1153. Identifying whether amino acids are hydrophobic or hydrophillic
- 1154. Is female the default sex in humans?
- 1155. Can more than one antibody bind the same antigen
- 1156. Why is uracil, rather than thymine, used in RNA?
- 1157. Where does the 'C' in exhaled CO, mostly come from?
- 1158. Why do stomata close in salt water?
- 1159. Cyanobacteria: Gram negative or Gram positive?
- 1160. Identification of small fuzzy flying insect (pic)
- 1161. How to DIY preserve pet DNA today so that it can be used in 20 years
- 1162. Solubility of Amylopectin and Glycogen in water
- 1163. Why aren't drugs delivered directly into arteries, rather than veins?
- 1164. What determines which strand of DNA is transcribed by RNA polymerase?

- 1165. What is splice junction pairs?
- 1166. Difference in length of Okazaki fragments
- 1167. What are tail currents?
- 1168. What is this unusual structure inside this banana?
- 1169. If a mother had a child with her own son, could a paternity test yield positive result for the son's father?
- 1170. When running gels what is the difference between constant volts or constant amps?
- 1171. How is the transcription direction of RNA polymerase determined?
- 1172. Why are there no wheeled animals?
- 1173. What does it mean to have a Y-DNA Haplogroup "R-M512"?
- 1174. Writing methods section on PCR amplication in a paper
- 1175. What determines whether an action potential is inhibitory or excitatory?
- 1176. What is the difference between vegetable and animal fats?
- 1177. Does consuming sodium benzoate (preservative E211) cause problems during pregnancy?
- 1178. Why doesn't nitrogen diffuse into blood?
- 1179. What is a "mechanistic study"?
- 1180. How does paracetamol interfere with immune system?
- 1181. Why is green fur not a thing?
- 1182. Are tendons and ligaments classified under the muscular or bone system?
- 1183. Excretion of various wastes and water requirement
- 1184. Is organ transplantation race dependent?
- 1185. For how long can a person drink sea water?
- 1186. What is the difference between the basal membrane and the basal lamina?

- 1187. Definition of "Effective population size"
- 1188. Difference/similarity between adaptive radiation and species divergence?
- 1189. How does the social structure of lion prides prevent incest?
- 1190. How does ecology differ from biology?
- 1191. Where does my extra blood volume go after giving birth?
- 1192. Genes & Map Units
- 1193. How can alcohol cause blindness?
- 1194. Did cats evolve from monkeys? or vice versa?
- 1195. How to interpret the breeders equation?
- 1196. Difference between protozoa, protists, protoctista?
- 1197. Insect identification Is this a bedbug?
- 1198. Why does getting soap in your eyes cause redness and irritation?
- 1199. Do "shooting" animals exist?
- 1200. What are the advantages of forgetting?
- 1201. Species Identification small insect: is this a bed bug?
- 1202. What is the surface area to volume (SA:V) ratio of a red blood cell?
- 1203. Can an octopus survive if one of its three hearts stops working?
- 1204. Why "Having chlorophyll without photosynthesis is actually very dangerous" and "like living with a bomb"?
- 1205. What is MHC haplotype?
- 1206. Difference between thylakoids and lamellae in a chloroplast?
- 1207. What is difference between High quality and low quality proteins
- 1208. Are human chromosomes connected or separate molecules?
- 1209. Why do tattoos persist if body cells are regularly renewed?

- 1210. What determines the spiral direction of plants?
- 1211. Why does cutting onions cause tears?
- 1212. Why do we grow so much hair on our heads compared to our bodies?
- 1213. How many copies of a gene?
- 1214. Why are some neurones unmyelinated?
- 1215. Can butterflies still fly after their wings are touched?
- 1216. Cross section through the right arm question
- 1217. Why can only small molecules pass through the phospholipid bilayer of the cell membrane?
- 1218. Why do chameleons move back and forth?
- 1219. Why do bananas turn black after some time?
- 1220. Why do I need a flu shot every year, while many other vaccinations last years or even a lifetime?
- 1221. The real definition of carbohydrates
- 1222. Behaviour of chromosomes and genes
- 1223. Can one see flickering of a light bulb at 50 Hz?
- 1224. How does the NAD+/NADH ratio affect lifespan in vertebrates?
- 1225. Why do you die if you cannot breathe?
- 1226. Can plants be grown using lights in the home?
- 1227. Can the human brain be reduced to a binary system?
- 1228. Spider Identification Michigan
- 1229. Why do you need the intrinsic pathway when you have faster extrinsic pathway?
- 1230. Do ants or other insects sleep, and if so why?
- 1231. what is the function of satellite in a chromosome?

- 1232. Single hormone opposite effects
- 1233. Are eukaroytic promoters located in the 5' UTR region?
- 1234. What prevents backflow of blood from right atrium to vena cava during atrial systole
- 1235. How many recombination events are there per generation in humans?
- 1236. DNA topology Linking number vs twist?
- 1237. When did mouth pipetting stop becoming a way to handle liquids in a lab?
- 1238. Why are many fruits sour?
- 1239. What is a DNA-binding domain?
- 1240. How do bile salts affect lipase activity?
- 1241. Can ovulation and menstruation occur simultaneously?
- 1242. List of Asymmetric Animals
- 1243. Difference between mice and rats
- 1244. Difference between negative allosteric regulation and non-competitive inhibition
- 1245. What is the longest-lasting protein in a human body?
- 1246. Names of nerves in hands, shins and face
- 1247. Does one wing of fly contain harmful microbes and the other contain only antibodies?
- 1248. what is the difference between pituitary dwarfism and thyroid dwarfism?
- 1249. Why do sneezes come out the mouth?
- 1250. Can bacteria be killed by purely physical trauma?
- 1251. Is there a difference between "cell line" and "cell strain"?
- 1252. How much energy does a lion contain?
- 1253. What is difference between Incest and Inbreeding?
- 1254. Why does so much variation exist within species?

- 1255. Is there any danger in putting a magnet in your ear (next to your brain)
- 1256. Why do men have nipples?
- 1257. How do ants transport water?
- 1258. Alternatives to trypsin for cell detachment?
- 1259. What is a catalytic domain of an enzyme?
- 1260. Headshot = instant kill?
- 1261. Why does immunity from the flu vaccine appear only after two weeks?
- 1262. Why can I see a light flicker when it's in my peripheral vision?
- 1263. A way to measure ripeness of a fruit
- 1264. What causes "ear rumbling"?
- 1265. Pipetting damage to cells
- 1266. Is it possible that by mutation a human could see infrared or other 'colours'?
- 1267. Purifying a linear plasmid after restriction digest?
- 1268. Why are nitrogenous bases of DNA hydrophobic if they can hydrogen bond?
- 1269. Do trees grow from the bottom or the top, or is that oversimplifying?
- 1270. Why does the pET- expression vector contain a LacI gene additionally to the one in the genome?
- 1271. Measuring protein concentration, Bradford vs. Nanodrop?
- 1272. What is heteroduplex?
- 1273. What is the evidence that australopithecines were bipedal?
- 1274. What determines the size and shape of a cell?
- 1275. Why do we get bored of certain food items after repeatedly eating them?
- 1276. Doesn't the sarcomere contract during isometric contraction?
- 1277. Crow branch pecking behaviour

- 1278. Has there ever been an attempt to create nutritionally tailored food for adult human consumption?
- 1279. Is there a correlation between total neurons and intelligence?
- 1280. How do viruses or bacteria survive outside the body long enough to spread?
- 1281. Cause of a extra vertebra in the human body
- 1282. Can animals also get Down syndrome?
- 1283. How to read cladograms/phylograms?
- 1284. Is there an advantage to linear chromosomes?
- 1285. Are all mutagens carcinogens?
- 1286. Why do people with type O blood have anti-A and anti-B antibodies?
- 1287. Do tall people have more cells?
- 1288. Why is beta actin commonly used as a control in Western blots?
- 1289. What is the difference between sequence alignment and sequence assembly?
- 1290. Are neural connections one-way?
- 1291. Why does alcohol cause the hemolysis of RBC in a large proportion?
- 1292. Insect identification pantry moth vs clothes moth
- 1293. Cellular Respiration/Fermentation Problem Leading to Lack of Energy
- 1294. Do any animals prepare food?
- 1295. What's the aim of genetically modifying of foods/organisms?
- 1296. When was it discovered XY chromosomes decide the sex of a child in humans?
- 1297. Maximum loading volume for agarose gel with 10 well comb
- 1298. Are 'homeothermic' and 'endothermic' synonymous?
- 1299. Coracoid vs. Coronoid Etymology/Naming Choice?
- 1300. What is the physiological difference between snorting/swallowing cocaine

- 1301. Programming Languages for Bioinformatics
- 1302. Do identical twins have the same fingerprint?
- 1303. What is the purpose of Y-shaped adapters in Illumina sequencing?
- 1304. Is cell membrane living
- 1305. Location of t tubule in muscle
- 1306. How does Artificial Selection work?
- 1307. What are the differences between cancer and tumour?
- 1308. How does soap affect membrane permeability? Which component of the membrane does it affect?
- 1309. What is Biradial Symmetry?
- 1310. How does alum help in blood coagulation?
- 1311. Why is the mosquito a definitive host in malaria?
- 1312. How long does it take for memory to disperse after death?
- 1313. Effects of lactic acid ingestion
- 1314. Growth factors vs. mitogens
- 1315. What does it mean when a patient suffering from malignant tumor (cancer) has been declared cured?
- 1316. Why didn't the polar bear change its color from white to black during evolution to absorb heat?
- 1317. Bigger animals needs bigger amount of oxygen?
- 1318. Can a cancerous cell from outside cause cancer in a healthy person?
- 1319. Are there predators evolved to eat puffer fish?
- 1320. How is a bacterial strain defined?
- 1321. How much of what we eat ends up in the toilet?
- 1322. Why do some animals have 8 Limbs (e.g. Spiders, Octopuses)?

- 1323. Do ants have a "stay away" signal?
- 1324. Is a walnut a nut or a drupe?
- 1325. Do plants absorb toxins from the soil?
- 1326. Who created the codon wheel chart (not as a table)?
- 1327. Why is a slow worm not considered a snake?
- 1328. What is a gene transcript, how is it different from an allele?
- 1329. Do men have significant hormonal cycles?
- 1330. Are there organisms with fewer than 1000 neurons?
- 1331. Besides hemoglobin, what proteins are present in red blood cells?
- 1332. Function of the Auricle in heart
- 1333. How to make µg/ml concentrations of proteinase-K?
- 1334. Why is tRNA called an adaptor molecule?
- 1335. Why can't humans drink sea water?
- 1336. Does osmosis take place in prokaryotic cells?
- 1337. Do all chromosomes in one human body contains same genome?
- 1338. How will rising carbon dioxide levels in the troposphere affect photosynthetic producers?
- 1339. What is the human ear's temporal resolution?
- 1340. Like other animals, why humans don't have species & breeds?
- 1341. Can any plant regenerate missing tissue?
- 1342. Can humans ever directly see a few photons at a time? Can a human see a single photon?
- 1343. What if \$rB=C\$ in Hamilton's rule?
- 1344. Why haven't we cured the common cold yet?

- 1345. Is lysergic acid diethylamide (LSD) metabolized in the body?
- 1346. If I buy a banana at the market, is there any chance that an insect is hiding inside it?
- 1347. Are Young Girls Stronger than Young Boys?
- 1348. Why does a cockroach not die even after decapitation?
- 1349. Are there plants that produce (audible) sound?
- 1350. Does it make sense to classify all humans in a single species?
- 1351. Do body lotions enter into bloodstream of people? And how do they do it?
- 1352. Why don't antiseptic agents kill 100% germs?
- 1353. Cleanliness of cast iron never cleaned between meals
- 1354. If alcohol is a depressant, why does it makes certain people more hyperactive?
- 1355. Why can't we grow more teeth?
- 1356. How many times has SARS-CoV-2 mutated?
- 1357. How to find the concentration of an enzyme?
- 1358. Is there a link between digestion and nightmares?
- 1359. How does a thymidine block halt DNA synthesis?
- 1360. Can a reservoir host act as a vector?
- 1361. Why do some mammals not have testes in a scrotum?
- 1362. Why Did 6 Great Ape Species Survive But Only 1 Hominid Species?
- 1363. Virus cannot survive on surface after certain time period, but why and how?
- 1364. Do humans produce rennin?
- 1365. Identify this smooth-cocoon worm from Southern India
- 1366. Why are some vegetables/fruits seasonal?
- 1367. How do female hormones cause blood to clot?

- 1368. What determines the colors and patterns of a clam shell?
- 1369. How do nutrients get to the cells they need to get to?
- 1370. Do animals get sick from eating dirty food or eating off the floor?
- 1371. What is the mechanism behind "acquired" alcohol tolerance?
- 1372. What determines excrement's caliber?
- 1373. What is the difference between a human being, a Homo sapiens, and a Neanderthal?
- 1374. Do these things contain amylase?
- 1375. How many different kinds of polypeptides, each composed of 12 amino acids, could be synthesized using the 20 common amino acids?
- 1376. Difference between Premature Atrial Contraction and Atrial Fibrillation
- 1377. Why does mint oil feel cold on the skin?
- 1378. What hydrolyses aspirin within the digestive tract and blood stream?
- 1379. What is the difference between cytosol and cytoplasm?
- 1380. Can the dead be brought back to life by viruses?
- 1381. What will happen if a scorpion pierces itself?
- 1382. Can Naegleria fowleri enter through your ear?
- 1383. How are Maggots Sterilized (Disinfected)?
- 1384. Why do only two sexes exist for animals?
- 1385. Species identification; clusters of big plump red bugs in Taipei
- 1386. What's the physical meaning of Svedberg unit?
- 1387. Why do we see better on stretching our eyelids to the side?
- 1388. How are arms different from legs?
- 1389. Causes of monozygotic twins
- 1390. Are Asians more genetically homogenous than other races?

- 1391. Cell evolution: immortality vs reproduction
- 1392. Why are lions the only social cats?
- 1393. Osmolarity vs. Tonicity
- 1394. Why is one phase of a plant dominant (Alternation of generation)?
- 1395. What are hot spots on human body?
- 1396. Why can't our eyes smoothly transition from side to side without focusing on a moving object?
- 1397. Is there a maximum amount of antibodies your body can keep?
- 1398. Why do eyes change colour after death?
- 1399. Bacterial capsule vs. slime wall
- 1400. what is meta-sympathetic nervous system?
- 1401. Why would a single celled organism evolve to be multi-celled?
- 1402. Why would lactate be high in diabetics?
- 1403. polarity of DNA
- 1404. How efficient is the human body at metabolizing food?
- 1405. What are Codominant vs Dominant Genetic Markers?
- 1406. Why does max heart rate decrease with age?
- 1407. what makes our body warm?
- 1408. Why does Penicillin only affect bacterial cell walls
- 1409. What's up with this leaf?
- 1410. Very high 260/230 absorbance ratio of an RNA sample
- 1411. Do the pH and other ions affect the hydrolysis of ATP
- 1412. Thermodynamics of Forming Peptide Bonds
- 1413. Difference between pipette and pipettor

- 1414. How long can one leave sample in lysis buffer for DNA extraction?
- 1415. Why is ATP used as a source of energy rather than glucose?
- 1416. How deep does water have to be so a mosquito can lay viable eggs in it?
- 1417. What is the evolutionary rationale for palm sweating?
- 1418. Are there examples of cells with more than one nucleus?
- 1419. Location of nucleotide synthesis and transport
- 1420. Are there biological reasons why life expectancy is lower for men in most countries of the world?
- 1421. The biggest underground living animal
- 1422. How does lactulose cause the removal of ammonia from the colon?
- 1423. The GUG start codon in E. coli: identity of initiating tRNA and efficiency of translation
- 1424. Do ants feel pain?
- 1425. What is the scientific opinion on plus lens therapy?
- 1426. How does plant grafting work?
- 1427. What exactly are computers used for in DNA sequencing?
- 1428. Can food swallowed when a person is upside down reach the stomach?
- 1429. How can a monocot get so massive?
- 1430. Why are pili more common in Gram negative bacteria than in Gram positive?
- 1431. Are fish and reptilian scales homologous?
- 1432. Why do live crabs in a bucket prevent each other from escaping?
- 1433. Circulation through the liver in light of drug metabolism
- 1434. Why is pepsin able to operate at low pH?
- 1435. What is the point of a runny nose during a cold?
- 1436. How do trees manage to grow equally in all directions?

- 1437. Heterocyst function in cyanobacteria and its localization
- 1438. Will dissolved proteins pass through a 0.2 micron filter?
- 1439. Does DNA polymerase always go the same direction?
- 1440. Gene distance and Recombination Frequency: Mechanism
- 1441. Why is GTP, not ATP, produced in Gluconeogenesis & TCA Cycle?
- 1442. Are SNPs and alleles the same thing?
- 1443. What is the difference between eugenics and evolution by natural selection?
- 1444. Which organism has the smallest genome length?
- 1445. Terminology for parts of the leg
- 1446. How to set up a slow cooling on an AB Veriti thermal cycler?
- 1447. Will the "frog in boiling water not jumping out" work on warm blooded animals
- 1448. Why is the function of lacA (encoding thiogalactoside transacetylase) not clearly understood?
- 1449. Can dead scorpions still sting?
- 1450. What is a "monomeric polypeptide"?
- 1451. Does the lung absorb organic food?
- 1452. What happens to tube nucleus of the pollen tube after fertilisation?
- 1453. Is the Common Cold an Immune Overreaction?
- 1454. Significance of upper-case, lower-case and Ns in UCSC DNA files
- 1455. Surgical vs anatomical neck
- 1456. How long could Earth's oxygen supply last if no new oxygen were produced?
- 1457. What is the ratio of head to waist and waist to floor of the human anatomy?
- 1458. Are there lifeforms that have more than 2 sexes?
- 1459. Do spouses begin to share genes over time?

- 1460. Does human eye lens have a magnification of its own?
- 1461. Evolution- Variations, adaptations and selective advantages
- 1462. Why Is Most Life Symmetrical Externally But Not Internally?
- 1463. After how many generations descendant is not more related to ancestor, than to a random individual in an ancestral population?
- 1464. Light and Dark Reaction of photosynthesis?
- 1465. What is the difference between Crossbreeding, Outbreeding and Outcrossing?
- 1466. RNA isolation- role of pH
- 1467. Are there more/less favourable phases of menstrual cycle to donate blood?
- 1468. Why is the inside of a cell negatively charged
- 1469. What is the distance between the sciatic nerve and the colon at the closest point?
- 1470. What is the role of potassium acetate in plasmid extraction?
- 1471. Mammal body density
- 1472. Is Plasmablast a precursor of Plasma cell?
- 1473. Height and natural selection in humans?
- 1474. What is full form of r and K in r-selection species and K-selection species?
- 1475. At what point is a picked flower considered dead?
- 1476. Are nucleic acids found in cell membranes?
- 1477. Why do we go blind for a few seconds after switching off the light?
- 1478. Why do we need red blood cells?
- 1479. How do bull semen companies get the semen out of the bulls?
- 1480. Is poison venomous and is venom poisonous?
- 1481. Calculating pairwise Fst from allele frequencies
- 1482. Do potassium channel blockers affect the resting membrane potential?

- 1483. Does coloring affect the perception of depth?
- 1484. Why does Rigor Mortis occur after death?
- 1485. Does any animal species have two sexes and more genders?
- 1486. Why would glucocorticoids promote glycogenesis and not glycogenolysis?
- 1487. Optical Density conversion to cfu / ml
- 1488. What are the function(s) of Alu elements in the cell?
- 1489. What causes the development of antibiotic-resistant strains of bacteria?
- 1490. What does conditional analysis of a SNP in a GWA study entail?
- 1491. Are mitochondria dead?
- 1492. Why are goosebumps so ineffective at keeping us warm?
- 1493. Earwax versus Mucus
- 1494. Can the human body create glucose out of fat?
- 1495. Why does it hurt the next day after doing significant exercise?
- 1496. What is the difference between embryology and developmental biology?
- 1497. How do white Caladiums perform enough photosynthesis to support their mass?
- 1498. Is it possible to exclude article types in a PubMed search?
- 1499. Is there a downloadable list of all species along with their traditional classification?
- 1500. How can I preserve hair or saliva for future genome sequencing?
- 1501. Why don't chilli peppers taste as hot in space?
- 1502. How does most of lymph get back into the blood stream? (I don't mean the lymphatic system)
- 1503. On the genetics behind caste marriages
- 1504. What is the difference between a circular and a cat's-eye (slit) pupil?
- 1505. Will ants arriving with travel luggage form a new colony?

- 1506. What is the distinction between F' plasmid and R plasmid?
- 1507. Does class switching occur both in B cells and Plasma cells?
- 1508. Does the hepatic portal system form capillary beds?
- 1509. What is the so called "hepatic glucose production"
- 1510. Growing E. coli at room temperature?
- 1511. What part of the brain controls depth perception?
- 1512. "X" in stock solutions
- 1513. What is the effect of a pure-oxygen environment on a plant?
- 1514. Are the asymmetrical positions of owl ears consistent across species with this trait?
- 1515. Why are proteins always made in N to C direction?
- 1516. What type of white hard thing grows on lobster
- 1517. What is the rest state for eyelids Open or Closed?
- 1518. Do spinal cord reflexes (such as the knee-jerk reflex) continue to function under general anaesthesia?
- 1519. How loud a sound would need to be to wake someone up?
- 1520. Can a human smell through the ears?
- 1521. Scoring matrices (BLOSUM & PAM) in BLAST and other sequence-comparison programs
- 1522. Is heat released during work due to ATP breakdown or a increased blood flow?
- 1523. What is the criticality of the ribosome binding site relative to the start codon in prokaryotic translation?
- 1524. Why do red blood cells contain haemoglobin and not myoglobin?
- 1525. How deep under water can humans open their naked eyes without damaging them?
- 1526. Are mitochondria alive?
- 1527. Is honey in hot green tea unsafe?

- 1528. Fetal development, gastrulation and embryonic disc
- 1529. Depolarization and hyperpolarization in stereocilia of the inner ear
- 1530. "Higher plants" or "vascular plants"?
- 1531. Meaning of units in ELISA based tests?
- 1532. How does the immune system "learn" from a vaccine?
- 1533. How to check if a fastq file has single or paired end reads
- 1534. Should we induce fever to assist healing?
- 1535. What concentration of sugar is optimal for baker's yeast fermentation?
- 1536. Does THC excretion increase if urine volume increases?
- 1537. Does our eyeball increase in size as we grow?
- 1538. What actually happens when my leg 'falls asleep'?
- 1539. What are tendons made of specifically
- 1540. Can rats pass on memories of a maze to their offspring?
- 1541. For how long can a raven stay airborne (a week or more)?
- 1542. Why isn't Fluorine, or Neon, the final electron acceptor in cellular respiration?
- 1543. Are the irises an exact match in a human's set of eyes?
- 1544. Is aquafaba readily digestible?
- 1545. What is the Shine–Dalgarno sequence?
- 1546. How can I accurately measure glucose concentration in culture media?
- 1547. Definition of Cofactor, Coenzyme and Prosthetic Group
- 1548. Deciduous trees in tropical rainforest
- 1549. Enzootic vs Epizootic?
- 1550. Is ovum + ovum fertilization possible for human?

- 1551. Is nicotine toxic to humans?
- 1552. Why do human females have periods?
- 1553. Is sugar absorbed into the bloodstream through the walls of the mouth?
- 1554. How do we know that everybody's DNA fingerprint is unique?
- 1555. What is the name of the bond between phosphate and the sugar in a nucleotide?
- 1556. Examples of enzymes working in reverse?
- 1557. Introductory biology text for an outsider
- 1558. Why are the human knees and elbows bent in an opposite direction
- 1559. How many times did terrestrial life emerge from the ocean?
- 1560. Wearing sunglasses during a solar eclipse
- 1561. How many primary oocytes in human female body at birth?
- 1562. How long does it take for a cricket to die at subzero temperatures?
- 1563. How do you increase eumelanin but not pheomelanin?
- 1564. How long can E. coli stocks be stored at -20°C?
- 1565. How can the child and the mother have different blood types?
- 1566. Is there enough vitamin B12 in lakes, rivers and ponds, for humans not to need to take supplements?
- 1567. Are there species that occupy several roles in the food hierarchy?
- 1568. What is the function of the Moderator band?
- 1569. Dark, long-legged spider with long mouthparts in front, long "pincers" in the back and very short 3rd pair of legs (northern Taiwan)
- 1570. Background correction when reading ELISA with TMB substrate
- 1571. Why did the sensitive plant (Mimosa pudica) evolve its leaf-closing mechanism?
- 1572. What is the genetic basis of blood type (ABO) system?

- 1573. Why does snow not stick to the fur of wolves and some breeds of dogs?
- 1574. Is this a bedbug or a book lice or what?
- 1575. what is the reason for using 70% alcohol (ethanol)!?
- 1576. What is this feather like bug with no legs?
- 1577. Why are vaccines for polio taken orally while vaccines for TB need to be injected?
- 1578. Magnetic-activated cell sorting vs. FACS
- 1579. Why is rabies incurable?
- 1580. Beetle with long, slender iridescent green body and orange legs
- 1581. Where do mushrooms get their energy from?
- 1582. Why do flies fly in circles?
- 1583. Why does the apex of the human heart usually point to the left?
- 1584. Why do we have five fingers?
- 1585. Why does the sacrum fuse together?
- 1586. How does HIV mutate into other strains while keeping their virulent phenotype?
- 1587. How much oxygen does a plant use up at night?
- 1588. Do we know all the possible human hair colors?
- 1589. Why is there a difference in the rotation of the tail fin in fish compared to marine mammals?
- 1590. Which processes are during the latent period of ventricular contraction?
- 1591. What is the "lifecycle" of an average eschar and what types of cells are involved in each stage?
- 1592. Why did humans lose their fur?
- 1593. Do lobsters possess a nervous system to feel pain?
- 1594. Amount of blunt force to kill a person

- 1595. Why are some berries poisonous?
- 1596. What insect is this? Looks like a spider but with six legs and long antennae
- 1597. Are Italians genetically separated from other Europeans?
- 1598. Why is the DNA codon table "equal" to the RNA codon table
- 1599. What do the letters 'p' and 'c' mean in mutation descriptions?
- 1600. Why isolated, recombinant plasmid DNA without any restriction is often detected in agarose gel electrophoresis as three DNA bands?
- 1601. Do colour-blind people see white?
- 1602. What do butterflies eat?
- 1603. Do women experience more bonding hormones than men after sex?
- 1604. Is tyrosine hydrophobic or hydrophilic?
- 1605. What are good resources for self-learning modern molecular biology concepts?
- 1606. What happens to deep sea creatures if they reach the surface?
- 1607. The effect on the efficacy and potency of a non-competetive antagonist binding to the active site of the receptor (dose-response curve)
- 1608. III effects of urea and NH f on metabolism
- 1609. Why human cannot stand still in one place?
- 1610. Why does crying lead to a running nose and reddened nose tip?
- 1611. Why does vaccine development take so long?
- 1612. How does an amoeba move?
- 1613. How does one determine the sex ratio of a ZZ and ZW cross?
- 1614. Larva in cat's water dish
- 1615. Is ATP Synthase a channel or an enzymatic protein?
- 1616. Doubly-compound leaf examples?

- 1617. Can Blood Types Change?
- 1618. Why does my eyes see a red spot when over exposed to light?
- 1619. How does electrolarynx work?
- 1620. Does the genetic sequence of SARS-CoV-2 end with 33 A's?
- 1621. What is the purpose of back-crossing mice for multiple generations?
- 1622. Why are there no trees in Texas?
- 1623. Why are organs not harvested from deceased cancer patients?
- 1624. How did the endoplasmic reticulum come to be?
- 1625. What is the purpose of the incus?
- 1626. How does protein denaturation work?
- 1627. How can I find a complete human genome file?
- 1628. How does chromosome number get halved in meiosis !?
- 1629. Why did the process of sleep evolve in many animals? What is its evolutionary advantage?
- 1630. How does translational coupling work in prokaryotes?
- 1631. Can you Transfer Cancer Between People via Saliva or other Bodily Fluids?
- 1632. What is the actual storage form of energy in muscles? ATP or Glycogen?
- 1633. Why does the kidney of a cow have lobules, why the kidney of a human hasn't any?
- 1634. What determines testosterone exposure in womb, baby's genetics or mom's body?
- 1635. Is monogamy a human innate behaviour?
- 1636. How long can I store extracted RNA?
- 1637. What is this animal looking like an Axolotl?
- 1638. Should hydrogen peroxide be applied on a bloody nose?
- 1639. Can Squirrels Eat Every Mushroom?

- 1640. How is NAD+ used in lactic acid fermentation after it is oxidized from NADH?
- 1641. Why didn't Escobar's hippos introduced in a single event die out due to inbreeding
- 1642. Is "computational biology" different from "bioinformatics"?
- 1643. Do the right-handed people tend to use the right side teeth of their jaw to chew food more often than the left-handed people?
- 1644. Hardy-Weinberg Color-blind
- 1645. What animal has the strongest immune system?
- 1646. When do the spindle fibers attach to the chromosome
- 1647. if sperm contains only 50% of someone's DNA how can it be used to identify someone?
- 1648. How fast is water transported from roots to leaves?
- 1649. How do animals decide what to eat and what not?
- 1650. How "exactly" is Rabies transmitted?
- 1651. Why are there six reading frames if only one strand of DNA is referred to as the 'coding strand'?
- 1652. Differences between synaptic connections
- 1653. What could cause a forest of bent trees?
- 1654. How does a virus take control over the host cell?
- 1655. Will salting the ground kill insects and spiders?
- 1656. How do download a list of the gene length of all genes?
- 1657. Why can't we see in low light if staring long enough?
- 1658. What is the role of acetylcholine in blood pressure regulation?
- 1659. What percent of the population has some form of synesthesia?
- 1660. What is dental health like in animals?
- 1661. Is it true that bees and wasps don't sting if struck by hand while they are in flight?

- 1662. What implications has the missing 2'-OH on the capability of DNA to form 3D structures?
- 1663. Do large animals experience a meaningful delay when moving their most distant appendages?
- 1664. How do I read a sequence logo?
- 1665. How does waking up from an alarm clock work?
- 1666. Human evolution: Where *exactly* did the first human come from, whose parents were not?
- 1667. What is the best way to clean immersion oil from the microscope lens?
- 1668. How can a drink contain 1.8 kcal energy while 0 g fat/carbs/protein?
- 1669. Transfer of antibodies in breast milk of humans
- 1670. Why Do Ruminants Require A Multi-Compartment Stomach To Digest Food?
- 1671. Which of the two chromosomes in a pair is expressed?
- 1672. A new species of small bird?
- 1673. Why does a gene have two alleles?
- 1674. Name of This Black and White Dove
- 1675. What prevents predator overpopulation?
- 1676. Gene & Protein nomenclature: N-Myc, c-Myc, et. al
- 1677. Are there any solitary species of ant or termite?
- 1678. How many cells does the smallest animal have?
- 1679. Why do crabs spit?
- 1680. Why don't we bleed interstitial fluid?
- 1681. What does static electricity generated by plastic combs do to our hair?
- 1682. Binary fission in amoeba
- 1683. Examples of animals with different number of chromosomes that can interbreed?

- 1684. Is it possible to stop yourself from going into shock?
- 1685. Why do humans seem to be the only mammals that like spicy food?
- 1686. Why are human immune systems comparatively weaker than other animal immune systems?
- 1687. What is the size (diameter) of the SARS-CoV-2 virus?
- 1688. Can two humans with 44 chromosomes produce viable offspring?
- 1689. Is there any use of CO, in human body?
- 1690. Why does wood become darker when it ages?
- 1691. Breathing faster to lose (more) weight?
- 1692. Which surfaces contain no epithelial tissues and which epithelial tissues are vascular?
- 1693. Is there a durable surface that ants can't pass?
- 1694. ECG wave names origin
- 1695. What is the difference between a polysaccharide and a macromolecule?
- 1696. Do male marsupials have a pouch?
- 1697. The probability of indirect human fertilization?
- 1698. Is a DNA molecule a single strand of polynucleotide or two of them linked together?
- 1699. Can beavers control the direction a tree falls?
- 1700. Chitin, homo or heteropolysaccharide?
- 1701. Do animals other than humans have different blood types?
- 1702. How does the Pectoralis Major work when doing a bench press?
- 1703. What is Mendelian Randomization, and how is it used to infer causality in epidemiology?
- 1704. difference between transcriptional activator and general transcription factors?
- 1705. I just saw this bird outside my apartment. Anyone know what it is? (Texas, US)

- 1706. Why do antidepressants have a delayed onset of action?
- 1707. What is the biochemical explanation for tingling and burning sensation in brain due to certain food?
- 1708. What would happen if one eats silica gel?
- 1709. Can species be paraphyletic?
- 1710. Books on population or evolutionary genetics?
- 1711. Albinism inheritance problem: what are the father's alleles if he got an albino kid?
- 1712. Why can hair grow without limit while eyebrow cannot?
- 1713. What is "chain identifier" in PDB?
- 1714. What is 'refractile' cell morphology?
- 1715. What are the differences between isozymes, allozymes and isoforms?
- 1716. What is the fastest marine mammal?
- 1717. Do all sea creatures that have scales have to have fins?
- 1718. fibroblast cells and fibers
- 1719. The pectoral fins of a whale and a shark. Are they analogous organs?
- 1720. Why does ostrich meat look and taste more like beef than chicken?
- 1721. Over winding vs under winding of a DNA
- 1722. Why does a light object appear lighter in your peripheral vision when it's dark?
- 1723. Why are oceans said to have "low productivity" in terms of photosynthesis?
- 1724. DpnI over-digestion
- 1725. Identification of beetle: black with orange stripe and 2 orange dots
- 1726. What is this worm-like creature?
- 1727. Is it possible to move your arms above your head when handcuffed in the back?
- 1728. What made this tiny honeycomb-like structure?

- 1729. Why do we have two eyes?
- 1730. Is it possible to be allergic to the yolk of an egg but not the egg white?
- 1731. What is the significance of and biological mechanisms demonstrated in lac operon?
- 1732. What is the evolutionary advantage of having pubic hair?
- 1733. Species-area relation graph
- 1734. If a gene is located on the X chromosome, does that mean males are never heterozygous for these genes?
- 1735. Why are cell lines frozen in vapor phase?
- 1736. How does Australia fit into 'New World' / 'Old World' dichotomy?
- 1737. What part of food gives the blood red color?
- 1738. Do all parts of a plant contain the same type of cell?
- 1739. Can HIV mutate to become airborne?
- 1740. Is there a reason why human eyesight and plants make use of the same wavelength of light?
- 1741. What is this droplet of liquid that comes out of a mosquito?
- 1742. Species Identification: Small white maggot/larvae, Missouri USA
- 1743. How do dopamine agonists like amphetamine/methylphenidate affect acetylcholine signalling?
- 1744. Do all Gram negative bacteria cause septic shock?
- 1745. Why do we have two kidneys but one liver?
- 1746. How does strength of a pulse related to EKG(ECG)?
- 1747. Can the Monkeypox virus be spread by mosquitoes?
- 1748. Where do the four ADPs come from in the second stage of glycolysis?
- 1749. Why are the genomes of Humans 99.5% the same?
- 1750. Why animals can move and plants cannot in general?

- 1751. Why do bulls have a hump?
- 1752. What are the identifying characteristics of a Jellyfish?
- 1753. Why do we use an autoclave at 121°C (250F)? (Origin)
- 1754. Is there any biological reason that professional swimming is dominated by white people?
- 1755. Identity By Descent vs Identity By State
- 1756. why didn't natives of south america evolve darker skin?
- 1757. How do I get a brighter DNA bands
- 1758. Are these microscopic star-like structures on a dead leaf some sort of organism? If so, which one?
- 1759. How the lungs clear themselves?
- 1760. Are pulp cells (in oranges) normal plant cells?
- 1761. Can animals train to be noticeably stronger, faster, more agile... than other animals of the same species?
- 1762. Are human teeth only diphyodont or both diphyodont and monodont?
- 1763. How much time does HIV live outside the body?
- 1764. Was the dodo a dinosaur?
- 1765. How many species have existed on earth?
- 1766. How is eye color in humans inherited?
- 1767. What is the Giemsa staining of chromosomes?
- 1768. What is in the space between neurons in a brain?
- 1769. Why are sugars in whole fruits not digested the same way sugars in juice are?
- 1770. Are there any open plant databases (database/library/collection), containing species information and pictures?
- 1771. Chart of blood pH across different animal species?

- 1772. Do fishes die from old age?
- 1773. What limits the speed of human perception?
- 1774. Does osmosis require a protein channel?
- 1775. The human has 46 double chromosomes or simple chromosomes?
- 1776. What is the brain's preferred energy source? Glucose or ketones?
- 1777. Please help me to identify this red worm
- 1778. Why do organisms excrete nitrogenous wastes?
- 1779. How does evolution produce complex organs
- 1780. Why does DNA have its name?
- 1781. 0.1 M sodium citrate in 10% ethanol and DNA solubility
- 1782. Is the eukaryotic nucleus composed of a single or double membrane?
- 1783. Why do humans suffer anxiety when they view "Trypophobia trigger images"?
- 1784. What is an isolated beta bridge?
- 1785. Where do amino acids get attached to tRNA and where is it synthesized?
- 1786. what is the ancestral relationship between dogs and cats and bears?
- 1787. How does coconut water solidify into hardened coconut meat?
- 1788. Why cytotoxic T cells don't kill dendritic cells when they present antigen?
- 1789. difference between "Petri dishes" and "Petri plates"?
- 1790. Is the Michael Jackson skin pigmentation disease realistic?
- 1791. What is the difference between "lineage restriction" and "differentiated" in terms of stem cell biology
- 1792. Was HindII the first restriction endonuclease to be extracted?
- 1793. How do ants sense imminent rainfall?
- 1794. How does non-homologous end joining (NHEJ) work?

- 1795. Why some eggs are bile stained?
- 1796. Do insects' muscles become stronger with exercise?
- 1797. Using anatomical terms for human organs and parts of plants
- 1798. How can natural selection occur at species level whilst not occuring at the individual level?
- 1799. Why is the Kakapo more attracted to humans than its own kind?
- 1800. Why does depolarisation by high intracellular K+ trigger calcium channels opening?
- 1801. Does pH affect Michaelis constant?
- 1802. Difference between sequential and conformational epitope
- 1803. What gives things their colour?
- 1804. Restriction Mapping of Plasmid Assignment
- 1805. Why do flies "rub" their front legs when resting?
- 1806. Why are there more stomatal openings on the lower surface of a dicot leaf?
- 1807. Clarify pre-column pressure vs. system pressure vs. backpressure for prepacked columns used with the äkta purification system
- 1808. Why doesn't ovulation occur in both ovaries simultaneously?
- 1809. What's the recommended maximum passage number for mammalian cells (NCI-H441)?
- 1810. Transcription and translation of prokaryotic operons
- 1811. Is there an evolutionary purpose to armpit perspiration?
- 1812. Why does supercoiled DNA run faster?
- 1813. Abdominal muscles during inspiration/inhalation
- 1814. How is vitamin B12 stored in the body although it is water-soluble?
- 1815. Complementarity Determining Regions (CDRs)
- 1816. Is there any kind of immortality in plants?

- 1817. Earth overshoot day: is it a sound concept?
- 1818. Why can't amylase break down glycogen?
- 1819. What evolutionary reason is there for having the urinary duct and reproductive organs so close together?
- 1820. Why do my muscles move slowly when cold?
- 1821. Is a stab wound to the back lethal?
- 1822. Can you be immune to a coronavirus?
- 1823. How can grass-fed livestock generate fat?
- 1824. What is the point of Meiosis II, considering Meiosis I already produced haploid cells?
- 1825. Why should a tumor look like a crab?
- 1826. Why do bananas grow curved?
- 1827. What kind of spider is this? Brown with white spots
- 1828. How accurate is facial reconstruction in forensics?
- 1829. Do animals exhibit handedness (paw-ness?) preference?
- 1830. What are two butterflies doing when they fly together, 'hitting' each other?
- 1831. Why are considered to be exceptions to the cell theory?
- 1832. What species is this rabbit-like animal?
- 1833. Why aren't we ambidextrous?
- 1834. How do you break up cell clumps when passaging?
- 1835. Classification and differences between homologous, homoplastic, analogous, derived and ancestral traits?
- 1836. How to interpret dual luciferase assay result (RLU)?
- 1837. Why should we use the NA12878 dataset for benchmarking?
- 1838. What do the names of Immunoglobulin subtypes mean?

- 1839. How to find the amino acid that is bound to a tRNA with the anticodon?
- 1840. Perception of distant lights without glasses
- 1841. How does the counter-current multiplier work in the nephrons?
- 1842. Is it possible to condition the body to reduce bruising?
- 1843. How long do viruses, such as Zika, stay in the body?
- 1844. Transmission of disease from mother to fetus
- 1845. Is death by cyanide the same as suffocation?
- 1846. Is kissing a natural human activity?
- 1847. When contracting a muscle will the muscle spindle stretch or contract?
- 1848. Does scratched Teflon coated frying pans contain carcinogens which can cause cancer?
- 1849. Differentiating Taenia solium and Taenia saginata Infections
- 1850. What is the average Leg-to-Foot Length/Width Ratio?
- 1851. Why don't animals produce alcohol
- 1852. Why are some genes dominant over others? What is the mechanism behind it?
- 1853. Purpose of dilution streaking or streak purification
- 1854. How efficient is the sodium-potassium pump?
- 1855. How is centriole number maintained during meiosis?
- 1856. How does a tree trunk sprout and grow after being cut?
- 1857. Why doesn't glucagon promote glycogenolysis in muscle?
- 1858. What is this brown spider with black and white stripes? (Atlanta, Georgia)
- 1859. How to edit/insert new gene after cutting with CRISPR/cas9
- 1860. What is the difference between multiple allelism and polymorphism?
- 1861. How does this illusion work?

- 1862. Are chromosomes from each parent split between gametes with equal probability (esp. in humans)?
- 1863. What does vitamin B6 and B12 absorption depend upon?
- 1864. How long can Cholera bacteria survive in a dead host?
- 1865. Why is allolactose the Lacl inducer?
- 1866. Are all emerging viral diseases of the past 100 years zoonoses?
- 1867. Crossing white eyed Drosophila with sepia eye
- 1868. What is cytoplasmic localization?
- 1869. Photolysis of Water?
- 1870. What is this insect in Southern California?
- 1871. Why do we get 'bags under our eyes'?
- 1872. Is it impossible for a retrovirus to be lysogenic?
- 1873. Is Pork more prone to carrying higher loads of parasites than Beef?
- 1874. Basic step by step methods for PCR & Gel electrophoresis class
- 1875. Why do humans find baby animals cute?
- 1876. iodine: how did they manage without it in old ages? (People who were living far from the sea)
- 1877. Why aren't nucleic acids on Nutrition labels?
- 1878. What is this stick-like creature?
- 1879. Assume the gene for freckles is dominant. A woman with freckles has a son that does not. What would have to be the genotype of the mother?
- 1880. How long does a tan last?
- 1881. How to identify the age of a "living" person?
- 1882. How many species did Carl Linnaeus classify?
- 1883. Why our body does not produce polyunsaturated fatty acids?

- 1884. What does a diamond symbol actually mean in pedigree?
- 1885. How much do crocodiles eat?
- 1886. Hardy-Weinberg sex linked formula
- 1887. Identification: Creepy 'nope'
- 1888. How does water buffer a sudden drop in temperature?
- 1889. Are fully vaccinated people more likely to not get infected at all with COVID-19?
- 1890. What is the difference between naive and adjusted p-values in a GWAS study?
- 1891. Effects of mRNA vaccines on human body processes
- 1892. Highest Pressure Human Body Can Survive In?
- 1893. What kinds of bacteria live in water bottles?
- 1894. How many species can have the same scientific name?
- 1895. Why is the pituitary gland located in the brain?
- 1896. What are the genus and species name of different breeds of dog?
- 1897. Are Pond Algae Edible for Humans?
- 1898. Orientations of codon and anticodon
- 1899. Do viruses or bacteria have a flavour?
- 1900. Can viruses be toxic?
- 1901. Gibbs free energy and its change for the hydrolysis of ATP
- 1902. Why do living fossils like crocodiles remain so constant and not evolve?
- 1903. Speciation of humans?
- 1904. How does the immune system fight scabies mites?
- 1905. Why do some plant species have lobed leaves, while similar species in the same habitat don't?
- 1906. Where is the line between Anaerobic and Aerobic?

- 1907. Basic Amino Acid Residue Binding Mechanism to DNA
- 1908. More proteins from diet when common cold and flu?
- 1909. Why do most animals never seem to evolve over millenia?
- 1910. Do neurons secrete multiple neurotransmitters, or just one type?
- 1911. Purpose of poly(A)+ RNA?
- 1912. Interpretation of picture of human chromosomes
- 1913. I found a bug on my bedroom floor. Is this a bedbug?
- 1914. Cooperativity of haemoglobin and oxygen dissociation curve of haemoglobin
- 1915. What is the meaning of a reported OD600 value?
- 1916. Do men have more extreme variations than women?
- 1917. Can proteins move outside cells?
- 1918. For how long would a flu-contaminated parcel be an effective disease vector?
- 1919. What kind of microscope should be used to view biological structures (such as spores) roughly 5 μ m in length?
- 1920. How do liver and lung metastases cause death?
- 1921. Blood pH at Higher Altitudes
- 1922. Why dogs move their noses when smelling?
- 1923. How to get rid of mosquitoes in a small lake
- 1924. What are the units of Q10 (temperature sensitivity)?
- 1925. How many sensory neurons are in the human body?
- 1926. Does the human ear adapt to noise levels?
- 1927. What happens when cells in your body run out of telomeres?
- 1928. Can adenosine be cleared?
- 1929. Definitions of hermaphroditism, dioecious and monoecious?

- 1930. What is the general term for tree-dwelling animals?
- 1931. Are glycoproteins and glycolipids present only on the cell surface membrane?
- 1932. Why does dehydration lead to low blood pressure
- 1933. pl and pH relationship in context of ion exchange protein purification
- 1934. Why do neurons have a negative resting potential?
- 1935. Origin of the double membrane of mitochondria and chloroplasts
- 1936. Is this a crayfish hole? or wasp nest?
- 1937. Do men have a higher genetic variance than women?
- 1938. How does Pothos grow in only water?
- 1939. Why do apples taste sweeter at the bottom?
- 1940. Help identify this worm-like thing
- 1941. Effect of transpiration on plant growth
- 1942. Are there verbs for "undergo mitosis" and "undergo meiosis"?
- 1943. Are hens and roosters the same species?
- 1944. What species is this grey insect with red antennae and mouthparts?
- 1945. What kind of bug is this on my curtain?
- 1946. How likely is a lack of DNA match with a distant relative?
- 1947. Hot water and bacteria
- 1948. Which predators only eat some parts of their prey? (Warning graphic content)
- 1949. Is secondary follicle or Graafian follicle arrested in the second metaphase of oogenesis?
- 1950. Difference between flexion and contraction?
- 1951. Pharmacokinetics: why do certain drugs follow zero-order kinetics?
- 1952. Online Molecular and Cellular Biology Video Lectures?

- 1953. What are sources for learning bioinformatics for self-learning?
- 1954. What are the consequences of inbreeding?
- 1955. What is the difference between Single Nucleotide Polymorphism (SNP), Mutation and Structural Variation(SV)?
- 1956. Anomalous base pairing of nucleotide tautomers
- 1957. Role of calcium chloride during competent cell preparation
- 1958. What is the name of this red plant?
- 1959. Why is there smooth muscle in our bronchioles?
- 1960. Is the motor cortex identical to the sensorimotor cortex?
- 1961. What is the magnification necessary to see pond life
- 1962. What is the name of this fruit?
- 1963. Explaining a branch with visibly different leaves on Citrus japonica
- 1964. What negative effects can pinhole glasses have on the body?
- 1965. Do plants have distinctive DNA genomes from each other like humans do?
- 1966. What are artifacts in microbiology?
- 1967. What kinds of cells does human saliva contain?
- 1968. How does sodium ion increase blood pressure?
- 1969. How do the lungs act as a sieve to trap blood clots?
- 1970. What is the fastest growing bacterium?
- 1971. Why did life not evolve to use radio?
- 1972. Is each blade of grass an individual plant or not?
- 1973. What happens to lactic acid I eat?
- 1974. At any given moment, how much energy is stored in the human body as ATP?
- 1975. Did predators evolve eyes first?

- 1976. How do birds deal with their eyes drying out at high speeds?
- 1977. Difference between clonal and subclonal mutations
- 1978. How statistically significant was the "sweaty T-shirt" experiment?
- 1979. Black insect with antennas and large abdomen
- 1980. Does breath-holding cause permanent brain damage?
- 1981. Did the Zika virus mutate?
- 1982. Why do we urinate more often in winter compaired to summer?
- 1983. Effect of pH on protein solubilty and denaturation
- 1984. How do I know which molecular structure is glycine's "base state"?
- 1985. Is there a bacterium that became a virus?
- 1986. Why does gaining a hydrogen in biology considered reducing a molecule?
- 1987. Worm in water identification help
- 1988. Why does the affinity of haemoglobin for oxygen increase at higher elevations?
- 1989. Is our genome decaying (see "Genetic Entropy"), and, if so, is this evidence for our genome being "young"?
- 1990. In which direction does ATP synthase rotate?
- 1991. Do birds ever fly in clouds?
- 1992. Why Do Nerve Signals Get Crossed?
- 1993. Effects of Polyphasic vs Monophasic sleep in humans
- 1994. Why does air from the nasal cavity not go into the oesophagus?
- 1995. Why does a distraction cause a longer reaction time?
- 1996. What is the difference between the evolution of fins in whales and fish?
- 1997. For fish, does a bony skeleton have any advantages over a cartilage skeleton?
- 1998. Why do sneezes come in pairs or more?

- 1999. What exactly is the time constant of an ion channel gating?
- 2000. Why is blood removed from meat?
- 2001. Mutation That Loses Stop Codon
- 2002. What are these caterpillars eating a potato plant?
- 2003. Why Lungs can't work in water and gills can't work in air?
- 2004. How exactly does alcohol solution kill or neutralize viruses?
- 2005. Is the rate of photosynthesis higher than the rate of respiration?
- 2006. What is the fibre axis in the Watson and Crick paper?
- 2007. Why do sparrows jump instead of walk when they are not flying?
- 2008. Number of reading frames in nucleotide sequence
- 2009. Why are urban birds still scared of humans?
- 2010. Hardy Weinberg Equilibrium after 5 Generations
- 2011. What is the lowest pressure at which plants can survive?
- 2012. How does the eye know whether to focus further out or nearer in order to bring a blurry object into focus?
- 2013. How can you develop a bacterial infection when taking antibiotics for another area of the body with a bacterial infection?
- 2014. Where to put the gene after eukaryotic promoter for best expression levels?
- 2015. What is the actual chance of sibling incest child suffering from a genetic disorder?
- 2016. Examples of plant families that contain species that are safe for human consumption and species that are poisonous to humans?
- 2017. How can some animals see ultraviolet or infrared light?
- 2018. Standard Free energy of hydrolysis of phosphoenolpyruvate (PEP)
- 2019. What is the actual size of a nucleotide?
- 2020. Why are prions in animal diets not destroyed by the digestive system?

- 2021. Enzyme kinetics; what happens at the peak of the Gibbs energy graph?
- 2022. Is global life expectancy normally distributed?
- 2023. What is the average volume of the hippocampus?
- 2024. Do spiders learn how to build webs?
- 2025. On average how many genes / alleles do people share?
- 2026. What's the difference between blood value units 'mE/l', 'mU/l', 'mIU/l' and 'mEq/l'?
- 2027. Neurons with thousands of connections: where are the extra connections coming from?
- 2028. ATP required for cell processes
- 2029. Why is an HIV infection considered "incurable"?
- 2030. How do proteins 'know' where to go?
- 2031. Does the renal vein have a greater glucose concentration than the renal artery?
- 2032. Is the 6th rib attached to 7th rib, and 7th rib to 8th?
- 2033. Why DMSO is used as a control?
- 2034. What's the difference between male and female?
- 2035. Why do some white blood cells have lobed nuclei?
- 2036. In SDS-PAGE, why are the sample buffer and running buffer different in concentration?
- 2037. Are there animal species that sense infrared light with their eyes?
- 2038. How did the huge dinosaurs cope with gravity and loads on bones, etc.?
- 2039. What percentage of fish are herbivorous vs. carnivorous?
- 2040. Spider Identification: Is this an Arizona Recluse?
- 2041. Are insects attracted to near infrared light?
- 2042. Action potential and sodium channels

- 2043. Why do specifically bananas go brown quicker in the fridge?
- 2044. Can vitamin B17 cure cancer?
- 2045. Structure of adenoids
- 2046. How can CI repressor both activate and repress \$P_{RM}\$ promoter found in \$ \lambda\$ phage?
- 2047. Why are people tired after surgery?
- 2048. What is (probably) the closest living relative of the trilobite?
- 2049. Does "Garbage Enzyme cleaner" contain cleaning enzymes?
- 2050. Molecular cause of cramps, spasms and strengthening in muscles? (incl. intro to muscle contraction)
- 2051. Hundreds of Red Spiders in Individual Webs
- 2052. What causes random long white body hairs?
- 2053. What does 5' and 3' mean in DNA and RNA strands?
- 2054. Why can white hairs get dark again?
- 2055. Why do I only breathe out of one nostril?
- 2056. Why is DNA replication performed in the 5' to 3' direction?
- 2057. Teens concerned about impregnation through clothes
- 2058. What could cause hairs to gray at the tips but not the roots?
- 2059. What's the maximum and minimum temperature a human can survive?
- 2060. Small worm living in some kind of cocoon, what are these animals?
- 2061. How long human can survive with just drinking water everyday
- 2062. How to translate a blood type used in Eastern Europe?
- 2063. NADH vs. NADPH: Where is each one used and why that instead of the other?
- 2064. What is the difference between orthologs, paralogs and homologs?

- 2065. What is a coupled reaction and why do cells couple reactions?
- 2066. Why do mammalian red blood cells lack a nucleus?
- 2067. Can a person really die quickly from biting their tongue?
- 2068. If I squash an insect and it produces red "juice", does it always mean it is a blood-sucking type?
- 2069. Death because of distilled water consumption
- 2070. What is the healing process of mouth wounds?
- 2071. Why do vaccines cause your arm to hurt?
- 2072. Name (and meaning of the absence) of the white semicircle at the base of the fingernail?
- 2073. What is it called when one human eye is seeing brighter color than the other?
- 2074. What happens to the holes in the skull where teeth were developing?
- 2075. Why Do Healing Wounds Feel Warmer To The Touch?
- 2076. Why is thymine rather than uracil used in DNA?
- 2077. Why are my faeces black in color after eating Oreos
- 2078. What is the female equivalent of the morning erection that some men experience?
- 2079. How long can an octopus survive out of the water?
- 2080. Why do I see different hues of colors between each of my eyes?
- 2081. Many black people I've met have bigger lips than white people, why?
- 2082. Can dish soap really be used to kill ticks and fleas?
- 2083. Dorsal vs Posterior and Ventral vs Anterior
- 2084. Why do we add salt when precipitating DNA?
- 2085. Deciding between chi square and t test
- 2086. Blood pressure difference while seated and laid down

- 2087. Do animal cells have vacuoles?
- 2088. Why do ladybugs have a different number of points on their backs
- 2089. What is the difference between local and global sequence alignments?
- 2090. Which organs do cats not eat on their prey?
- 2091. how to close a severed artery/vein?
- 2092. Is it possible for a child to grow taller than their tallest parent?
- 2093. Why does strenous exercise cause vision of "lights"?
- 2094. What is the armpit hair for?
- 2095. What is the effect of extra-cellular potassium concentration on heart rate and conduction velocity?
- 2096. How do prokaryotes perform cellular respiration without membrane-bound organelles?
- 2097. What is the function of the RNA primer in DNA replication?
- 2098. Why draw blood from veins rather than arteries?
- 2099. Why don't we breathe nitrogen when it makes up most of the air?
- 2100. How long can human tissue last without blood?
- 2101. How do plant cell divide without centrioles?
- 2102. Do we get 1/4 of our genes from each grandparent?
- 2103. If the brain has no pain receptors, how come you can get a headache?
- 2104. Bending your little finger without bending ring finger
- 2105. Blood Pressure: Significance of difference between systolic and diastolic
- 2106. Which human cells have the longest and shortest lifespan?
- 2107. Do humans sneeze or cough in their sleep?
- 2108. What species of eagle pushes their young to teach them flying?
- 2109. Why are turtles classified as reptiles and not amphibians?

- 2110. Why does human facial and head hair continue to grow?
- 2111. How to store vegetables in the refrigerator: In plastic bags or not?
- 2112. Why does rabies cause hydrophobia?
- 2113. Why deoxyribose for DNA and ribose for RNA?
- 2114. Does DNA have the equivalent of IF-statements, WHILE loops, or function calls? How about GOTO?
- 2115. Why should plants transform glucose into sucrose before transporting it to other parts?
- 2116. I'm 20. Can I still grow taller?
- 2117. Ramifications and possibility of a diet consuming exclusively of human semen
- 2118. At what stage of meiosis does "first meiotic arrest of oogenesis" occur?
- 2119. Why do men have a higher hematocrit (red blood cell count) than women?
- 2120. What type of cell do you start with in Meiosis?
- 2121. How does laughing gas (N,O) work?
- 2122. Absorption ratios 260/280 and 260/230 for RNA
- 2123. Why are bacteria and archaea in different domains?
- 2124. Why are 3 nucleotides used as codons for amino-acid mapping in DNA?
- 2125. Do male mammals other than humans have nipples?
- 2126. Differences Between Protein Motifs and Protein Domains?
- 2127. What is the minimum air pressure the human body can tolerate if oxygen supply is not an issue?
- 2128. What's the smallest size a human eye can see?
- 2129. Why can cats interpret things on a monitor/tv, but dogs cannot?
- 2130. What is this white stuff inside apples?
- 2131. Why are (some) cats attracted by bleach?

- 2132. How hot can a beverage get without burning the tongue?
- 2133. Does Human Female Meiosis II occur after fertilization with sperm?
- 2134. How can Valonia ventricosa cells get so big?
- 2135. Why can't neurons undergo cell division?
- 2136. If I put a cup over a spider, and leave it there for a day, will the spider survive?
- 2137. What is positive and negative supercoiling?
- 2138. DNA as an acid?
- 2139. Applying saliva to mosquito bites
- 2140. Why does pH have an effect on enzymes?
- 2141. Inoculation vs. vaccination
- 2142. At what age do babies begin to synthesize their own antibodies?
- 2143. Is pork poisonous?
- 2144. Do cows produce milk excessively?
- 2145. Why is ATP the preferred choice for energy carriers?
- 2146. Why don't mammals have more than 4 limbs?
- 2147. How many human cells are there in our body, on average?
- 2148. Evolutionarily speaking, why do humans have 46 chromosomes
- 2149. Why do we assume that the first humans were dark-skinned?
- 2150. How many people are required to maintain genetic diversity?
- 2151. What magnification do I need to see blood cells?
- 2152. What is the difference between an antibiotic and an antibacterial?
- 2153. What is the optimum length of abstinence for maximum ejaculation volume in humans?
- 2154. Chromosome and chromatid numbers during cell cycle phases

- 2155. What factors are known to affect evolution?
- 2156. Why is SOC medium recommended for transformations?
- 2157. Why can't the brain and red blood cells use fuels other than glucose?
- 2158. Does freezing microorganisms such as probiotics kill them?
- 2159. Hoechst or DAPI for nuclear staining?
- 2160. Why Does Salt Water Help Sore Throats?
- 2161. Which shades/hues of color are easiest to distinguish for humans?
- 2162. Why are mosquitoes repelled by smoke?
- 2163. Why do fingers swell during cold winters?
- 2164. Does red light preserve your night vision?
- 2165. Why do eukaryotic organisms have introns in their DNA?
- 2166. What is the difference between "dikaryotic" and "heterokaryotic" states in the sexual lifecyles of fungi?
- 2167. Why do Humans not produce Vitamin C like other mammals?
- 2168. Why is defibrillation in asystole ("flat line") useless?
- 2169. Experiment to show that carbon dioxide is needed for photosynthesis
- 2170. Fish "coming back to life" after being frozen
- 2171. Why is cold water more refreshing than warm water?
- 2172. What is the meaning behind Kcat / Km?
- 2173. Do humans have enough biological differences to be grouped into races or subspecies?
- 2174. How do we sweat immediately after drinking water on a hot day?
- 2175. why can't we digest cellulose
- 2176. Glomerular Filtration Rate

- 2177. What nutrients can humans absorb in the mouth?
- 2178. What is the difference between a graded potential and an action potential?
- 2179. How can we differentiate between respiration and breathing?
- 2180. Whats the difference between voltage gated and ligand gated neurons?
- 2181. How does cerebrospinal fluid circulate in the central nervous system?
- 2182. Why do cockroaches burst from soapy water?
- 2183. What are the functions and differences between axons and dendrites?
- 2184. Does sour food cause sweating?
- 2185. Why do we suffer abdominal pain after we get very angry or stress?
- 2186. What makes humans omnivores, and not herbivores?
- 2187. Why do cell membranes let small non-polar molecules through but won't let small polar molecules through?
- 2188. Why can't we kill ourselves by holding our breath?
- 2189. Is the ringing sound in the ears caused by dying ear cells?
- 2190. Mitosis versus Meiosis I: What's the difference?
- 2191. Do plants with non-green leaves have chlorophyll and photosynthesis?
- 2192. What is the cause of muscle cramps?
- 2193. Is it safe to look at infrared LEDs?
- 2194. Does our DNA change during our lives?
- 2195. Calculating Possible Combinations of Bases in a DNA Strand of a Given Length
- 2196. Examples of animals with 12-28 legs?
- 2197. Why do these 2 dots frequently occur in dogs' eyebrows? Does it serve/served any advantage?
- 2198. Exsanguination Time from Damage to Major Arteries

- 2199. A strand of my hair has a grey section in the middle, how is this possible? And why does it happen?
- 2200. Why was the Davson-Danielli model rejected?
- 2201. Why do 60S & 40S ribosomal subunits make an 80S ribosome (not 100S)?
- 2202. How long can a naked human survive on Mars?
- 2203. Why do the hormones FSH and LH decrease when the follicle is maturing and does size of follicle change during menstruation phase
- 2204. why male penis not considered as cartilage?
- 2205. If red blood cells have no mitochondria how are they able to metabolize glucose?
- 2206. Why is DNA double stranded and RNA single stranded?
- 2207. Why can blood group O be given to all blood groups?
- 2208. Why can I raise my left eyebrow independently from the other but not the right?
- 2209. What organelles are in an onion cell?
- 2210. Why is the Krebs cycle considered a part of aerobic metabolism if molecular oxygen is not involved in any of the reactions in the cycle
- 2211. Mitosis in human body
- 2212. Cranial Nerve Decussation
- 2213. Why don't we develop immunity against common cold?
- 2214. Does CPH4 exists?
- 2215. What is the relationship between independent assortment and cross over?
- 2216. How to write 100% phenotype ratio?
- 2217. What would cause a single white eyelash?
- 2218. Will the heart keep beating if it's separated from the body?
- 2219. What is the difference between the Ureter and Urethra? also between the Renal papilla and Renal pelvis?

- 2220. Will I grow taller? How can i tell?
- 2221. Why can ATP not be stored in excess?
- 2222. What insect is this? (Black body two orange lines in its back and six legs)
- 2223. Why do the two hemispheres of the brain control the opposite sides of the body?
- 2224. What factors affect the rate of transpiration in plant leaves?
- 2225. How are the paranasal sinuses linked with the capillaries in the ear canals?
- 2226. Pedigree Probability of Autosomal Recessive Trait
- 2227. Why does the affinity of haemoglobin for oxygen decrease at high altitudes?
- 2228. Why does the oxygen produced in the photosynthesis come from water and not carbon dioxide?
- 2229. What is the effect of the wavelength on the spectrophotometric measurements of protein?
- 2230. Why is hydrofluoric acid so dangerous if it is a weak acid?
- 2231. Cats, Dogs and Bears how are they related?
- 2232. Is it possible for two brown-eyed parents to have blue-eyed child?
- 2233. Can swallowed fingermails, hair, or skin get caught in your appendix?
- 2234. Is it possible to have cancer and normal blood count at the same time?
- 2235. How do I identify the different stages of meiosis under microscope?
- 2236. I have a black tiny bug crawling all over the house
- 2237. How does extracellular potassium ion concentration and calcium ion concentration affect the excitability of a cell?
- 2238. Can the mating of a couple with Rhesus positive and negative blood types result in miscarriage?
- 2239. How would the result of Hershey and Chase experiment been different if protein was the genetic material?
- 2240. Why do cockroaches flip over when they die?

- 2241. How fast do cancer cells divide (compared to normal cells)?
- 2242. Is it possible to kill parasitic worms by intoxicating oneself?
- 2243. Difference between Appendix and the Cecum?
- 2244. Why there is a very high drop in pressure from arteries to arterioles?
- 2245. Why can't the human eye focus blue light?
- 2246. Why do I smell flowers after sneezing?
- 2247. Linear and Circular DNA
- 2248. Why do the fastest runners tend to be black?
- 2249. How does sodium in one's diet affect blood pressure?
- 2250. What happens to our body when we undergo a sudden temperature change from 40! to 20! ?
- 2251. If the top epidermal layer is burned away, what is it replaced with?
- 2252. What is the function of the polar bodies produced during oogenesis?
- 2253. What is the difference between a phosphotransferase, a phosphatase, a phosphorylase and a kinase?
- 2254. Why do snails come out after the rain?
- 2255. How can heart disease cause excessive sweating?
- 2256. Can humans perceive sounds above 20 kHz?
- 2257. How do disulphide bonds in hair cause curling?
- 2258. What is the standard deviation of adult human heights for males and females?
- 2259. Is there a difference between NADH and NADH2?
- 2260. No. of meiotic divisions to produce specific no. of seeds
- 2261. What is the difference between osmotic potential and osmotic pressure?
- 2262. Importance of Double Helix DNA Structure

- 2263. Are there human-ingestible liquids that do not contain water?
- 2264. Are humans the only animal that requires "clean water"?
- 2265. What is the difference of function between palisade and spongy layers of leaf?
- 2266. Why is 70% ethanol preferred for aseptic techniques?
- 2267. What is the purpose of using two layers of gel in SDS- PAGE?
- 2268. Do women tend to have longer legs and shorter torsos than men?
- 2269. Is this a grass cell?
- 2270. How to increase pheomelanin production?
- 2271. Melting point of a fatty acid?
- 2272. Determining net charge of amino acid at given pH
- 2273. How do the brain and nerves create electrical pulses?
- 2274. Will a bone marrow transplant change one's blood type?
- 2275. What is the importance of hydrogen bonds in water? and other questions:
- 2276. How many mice are on the Earth?
- 2277. Can any other animal choke on food?
- 2278. Is blood regarded as an organ?
- 2279. Calcium levels and nerve hyperexcitation
- 2280. Mechanism of Decorticate & Decerebrate Posturing? Also why is only Decorticate Rigidity a misnomer?
- 2281. are sperms considered living
- 2282. What E-value BLAST cut-off is best?
- 2283. How could humans have interbred with Neanderthals if we're a different species?
- 2284. Do apes and humans share 99% of DNA or 99% of genes? What is the difference?
- 2285. Why do people have antibodies against other blood types?

- 2286. Is the human body composition real?
- 2287. Difference between CDS and cDNA
- 2288. What organs are absolutely needed by the human body?
- 2289. Rust on kettle dangerous to consume?
- 2290. Why does milk contained in cartons of milk expand?
- 2291. What happens if an IV drip with a saline solution slips out of the vein, but keeps dripping into the body?
- 2292. How and why did mammals go back to the oceans?
- 2293. Can nosebleeds cause death?
- 2294. Agarose vs agar? Why do DNA gels use agarose only and how do you obtain agarose from agar?
- 2295. What are the risks of elevating the legs too regularly and when tired?
- 2296. What senses are active while sleeping?
- 2297. What are the exceptions to Mendel's laws?
- 2298. Why is fructose not glucose the main energy source of sperm?
- 2299. How do wild animals get rabies?
- 2300. What is the biological function of nose, underarm, and pubic hair?
- 2301. After vasectomy, where does the sperm go?
- 2302. What is the field of view for the human eyes?
- 2303. What is inside the male's body in the space where females have the ovaries and the uterus?
- 2304. Why is saltatory conduction in myelinated axons faster than continuous conduction in unmyelinated axons?
- 2305. Are mosquitoes repelled by high frequency sound?
- 2306. Do human anal glands have any function?

- 2307. Why do dogs try to cover their poop?
- 2308. Catabolic and Anabolic Reactions
- 2309. Do white Australians have a distinct look?
- 2310. How does heat shock transformation work?
- 2311. Complete list of touch sensitive plants
- 2312. What is the difference between HPLC and FPLC and why is FPLC preferable for protein purification?
- 2313. In Japan, the official average body temperature is 36.0 °C. Why so different from that of Europe?
- 2314. Does a microwave oven disinfect food?
- 2315. Why is weight gain a symptom of Cushing's Syndrome?
- 2316. Why are so few foods blue?
- 2317. What does irregular heartbeat mean in simple language?
- 2318. What's a non-allelic gene?
- 2319. Rate of cell division in humans
- 2320. Does the octopus have an anus? What does it look like?
- 2321. Which enzyme catalyzes transcription and which translation?
- 2322. Why do the major and minor groove exist in DNA?
- 2323. Can the excessive consumption of mineral water lead to kidney stones or other health issues?
- 2324. Is there any advantage to one blood type over another?
- 2325. What is the distinction between chemokines, cytokines, interferons and interleukins?
- 2326. How much vanilla will kill a person?
- 2327. How many genes do we share with our mother?
- 2328. What is the contribution of the cockroach to the ecological environment?

- 2329. Starch vs Cellulose. What are the differences between Alpha and Beta glucose ring structure in them?
- 2330. Why do adults lose hearing at high frequencies?
- 2331. What's the difference between shotgun sequencing and clone based sequencing?
- 2332. Why doesn't water enter my body through my anus or genitals when swimming?
- 2333. Calculating Protein Concentration from Kilo Units (KU)
- 2334. Why do we suddenly forget things, like PIN or phone numbers, that we've known for years?
- 2335. Why does my room suddenly look 'reddish'? My eyes seem to adapt to color
- 2336. How are amino acids neutral at physiological pH?
- 2337. How do large herbivores get enough protein?
- 2338. Blood circulation How to expand blood capillaries?
- 2339. Why are plant cells rectangular and animal cells spherical shaped?
- 2340. If a human takes antibiotics are all bacteria in the body killed?
- 2341. What causes adenosine build up in the brain when awake?
- 2342. What is the difference between regular blood, a woman's and a virgin's menstrual blood?
- 2343. Why cold water results in cough
- 2344. Are trees the only source of large amounts of oxygen?
- 2345. Why does a coconut have exactly three "holes"?
- 2346. Do you produce more sperm after 1 week of abstinence vs 1 year of abstinence
- 2347. Are humans the only species who drink milk as adults?
- 2348. Why is the heart not in the middle of the body?
- 2349. Does DNA replication in 5' to 3' (leading strand) need RNA primase?
- 2350. How reversible is decerebrate posturing caused by brain stem damage?

- 2351. What causes muscles to generate heat on contraction?
- 2352. Was the mitochondrion or chloroplast first?
- 2353. Can humans survive without consuming life?
- 2354. What is the normal duration of human sexual intercourse?
- 2355. What is the inlet/outlet speed of air going in/out of our mouth during inhalation/exhalation
- 2356. Why do orcas eat only the tongue of whales, liver of sharks, etc.?
- 2357. What is the average speed of human sneeze?
- 2358. Is the swimming pool water harmful to frogs who jump in? If so, how?
- 2359. How do trees use Adhesion and Cohesion to move water against gravity?
- 2360. Why aren't we allowed to refreeze previously thawed breastmilk in refrigerator?
- 2361. How many cell membranes are oxygen and carbon dioxide diffuse through in the lungs?
- 2362. Can you identify these tiny black insects please?
- 2363. Why does plucking nose hair cause tears in the eyes?
- 2364. What is the composition of human feces?
- 2365. Why does the face turn pale in dangerous situations?
- 2366. What is the difference between transverse section and longitudinal section?
- 2367. Calculation of the bacterial growth rate from a spectrophotomer growth curve
- 2368. What is the role of glycine in the running buffer for SDS-polyacrylamide gel electrophoresis
- 2369. Why do we urinate more when we are nervous?
- 2370. No bands show up in gel electrophoresis, not even marker
- 2371. Why does NAD+ become reduced if it gains a hydrogen proton?
- 2372. What is a suicide plasmid?

- 2373. Speciation by polyploidy
- 2374. What percent of your blood can you lose before you need a transfusion
- 2375. Can one die from pain?
- 2376. What is the proper format for genus and species names in latin?
- 2377. Why do toenails grow much slower than fingernails?
- 2378. What effect has changing pH and salt concentration on protein complexes?
- 2379. What is the difference between tonic and phasic firing?
- 2380. What is the ratio of breathing rate to heart rate?
- 2381. How long does a signal from the brain take to reach the limbs?
- 2382. Do Penicillin based antibiotics affect birth control?
- 2383. What is the difference between intrinsic and extrinsic apoptosis?
- 2384. Can humans eat grass?
- 2385. What happens if a non-diabetic receives an injection of insulin?
- 2386. Are blood vessels organs?
- 2387. What is the difference between endomysium and sarcolemma
- 2388. When is Water Produced During Photosynthesis?
- 2389. How do lipid-soluble substances diffuse through the cell membrane?
- 2390. Difference between Category, Rank and Taxon
- 2391. Why does hair grow after trimming but remains at a constant length after a while?
- 2392. What happens to our umbilical cord internally as we age?
- 2393. Is it theoretically possible to treat filaggrin deficiency with a dietary supplement?
- 2394. Origin of term 'confluency' in cell culture
- 2395. What is special about the N3 buffer for Qiagen minipreps?

- 2396. Why does the ring finger not move independently?
- 2397. Why is the DNA helix anti-parallel?
- 2398. What do the signs +/+ +/- mean in this image?
- 2399. Why is coffee a laxative?
- 2400. How many protons are pumped out per pair of electrons from NADH in oxidative phosphorylation?
- 2401. Identification What kind of animal leaves these tracks?
- 2402. What "emotions" can a snake feel?
- 2403. Arm at Heart Level when Measuring Blood Pressure
- 2404. Should I dilute DNA with water or elution buffer?
- 2405. How do archaea relate to eukaryotes and bacteria?
- 2406. Do biological facts determine when a human fetus is considered alive and human?
- 2407. What's the minimum distance of focus for the lens of a human eye to reach maximum flatness?
- 2408. How does a smoker's finger or mustache get yellowish by nicotine?
- 2409. Molecularly, why can you straighten or perm hair?
- 2410. Why do cell membranes have a lipid bilayer instead of a monolayer?
- 2411. What is the anatomical term for a two jointed leg?
- 2412. How do other primates treat their fingernails?
- 2413. What is the number of DNA strands per cell?
- 2414. Age of shells on beach
- 2415. How much nucleoside triphosphate is required to form one peptide bond during protein synthesis?
- 2416. How scientists can be confident that human embryo tail is really a tail?
- 2417. Why do people and animals stretch out their bodies and what is causing this

behaviour?

- 2418. Why does replication require primers while transcription does not?
- 2419. Why is it that cats can jump so high for their size, compared with humans?
- 2420. How does HCl not burn our stomach?
- 2421. What is the exact chemical composition of human body?
- 2422. Laying eggs vs giving birth: is there a connection with internal vs. external ears?
- 2423. Does posture matter while drinking water?
- 2424. Why do Asian people have black hair and Northern people have golden hair?
- 2425. Measuring Gross Primary Productivity (GPP) using Light and Dark Bottle methods: Sample Question
- 2426. Why would the stroma have a higher pH during photosynthesis?
- 2427. What physiological processes within a muscle cause the latent period in a muscle fiber?
- 2428. How is membrane capacitance related to the increased speed of saltatory conduction?
- 2429. What's the worst that can happen from eating too many spicy peppers? Can you die?
- 2430. Why and where do red blood cells die?
- 2431. Fate of erythrocytes after splenectomy
- 2432. Why does RNA adopt an A-form helix?
- 2433. How is ATP involved in muscle contraction?
- 2434. Why do we have no enzyme to digest cellulose?
- 2435. Why is a lack of oxygen fatal to cells?
- 2436. Can humans transdermally absorb minerals from ocean water, and if so how much?
- 2437. Identify fuzzy black quarter sized spider with orange on abdomen, in Minnesota
- 2438. How does isopropyl alcohol disinfect less in higher concentration?

- 2439. What is the minimal focal length of the human eye?
- 2440. Identifying a thin, black, worm-like creature with a hammer-shaped head
- 2441. Can all mammals swim?
- 2442. Why is prothrombin time test not used for heparin
- 2443. Are male and female brains physically different from birth?
- 2444. Difference between going against and going down a concentration gradient
- 2445. How to convert bwa mem output to BAM format without saving SAM file
- 2446. Why do our eyes close when we sleep?
- 2447. Do T-cells express MHC molecules?
- 2448. Why don't rats have a gallbladder, unlike other rodents?
- 2449. Where do birds and squirrels go to die?
- 2450. What is the function of E. coli bacteria in the human gut?
- 2451. Isotropy of sarcomere bands in skeletal muscle cells
- 2452. What is the evolutionary advantage of red-green color blindness?
- 2453. Does photosynthesis occur on cloudy days or does it require direct sunlight?
- 2454. Binomial nomenclature: Why am I seeing different genera with the same species name?
- 2455. Can breathing in helium (from balloons for example) cause damage to the throat in the long term?
- 2456. Why do we have the tibia and fibula (a 2nd bone) in the lower leg?
- 2457. Is consuming proteins different vs. consuming amino-acids and how?
- 2458. Calculating number of amino acids in mRNA
- 2459. Are these birch or aspen trees?
- 2460. What is the difference between taxonomical aids Flora, Manual and Catalogue?

- 2461. Why is my peripheral vision better for seeing in the dark?
- 2462. Are there animals / mammals which only have one eye?
- 2463. Ejaculation without orgasm: is this possible to do it at will without external stimulation?
- 2464. Do plants produce any heat?
- 2465. Why is a magnesium ion essential for ATP activity in enzymic reactions?
- 2466. Difference between Peptone, Peptide and Proteose
- 2467. Why can't ciliary muscles in the human eye relax like other muscles?
- 2468. Why do cells vary in shape and function when they have the same genome and the same organelles?
- 2469. Why are the Galápagos islands so special?
- 2470. What are homologous chromosomes?
- 2471. What is the difference between SOLiD, 454, and Illumina next-gen sequencing?
- 2472. Does the human hand have 27 degrees of freedom?
- 2473. DNA is charged negative. Where is all the positive charge in my body?
- 2474. Why is ATP produced in photosynthesis used to synthesize glucose?
- 2475. Why do human females have permanently prominent breasts?
- 2476. Does darker skin color make it easier to live under sun?
- 2477. Difference between intervertebral and vertebral foramina
- 2478. Explanation of the terms "downstream signaling" and "upstream signaling"
- 2479. Is diabetes mellitus a sex-linked disease?
- 2480. What is an apomorphy? What is a plesiomorphy? Can someone confirm these definitions?
- 2481. Which organs/tissues are defined as "peripheral organs/tissues"
- 2482. What is vascular cambium?

- 2483. What's a mouth ulcer/canker sore "made of", and why do they develop?
- 2484. Which of the cell types commonly found in mammals has the greatest number of mitochondria?
- 2485. How long does a mosquito take to land on a host, bite, and fly off?
- 2486. Does drinking alcohol having UTI may help to kill the bacteria?
- 2487. What is the difference between transformation and transfection?
- 2488. Are there human cells, apart from red blood cells and platelets, without a nucleus?
- 2489. Who are humans' closest relatives, after primates?
- 2490. Are brain cells replaced over time?
- 2491. Is there a difference between polarity and hydrophobicity?
- 2492. Why does it hurt when water touches cuts?
- 2493. How the conjunctivitis virus spread just by seeing a person's eye who is infected
- 2494. Why is Lamarck's evolutionary theory considered incorrect?
- 2495. How does a TOPflash/FOPflash assay work to detect beta-catenin protein expression?
- 2496. What happens when you mix type A with type B blood (and v.v)
- 2497. How do red blood cells survive without a nucleus?
- 2498. Why are viruses considered microbes?
- 2499. Does any organism use both photosynthesis and respiration?
- 2500. How does a Coronavirus "test kit" work?
- 2501. Do cold blooded animals generate any heat?
- 2502. Why is human vision restricted to 400-700 nm?
- 2503. Are there any non-mammalian species known that lactate?
- 2504. Why are transcripts translated from 5' to 3' direction?

- 2505. Can prawns be classified as fish, or is their position ambiguous?
- 2506. How much gas is exchanged in one human breath?
- 2507. Why do plants have green leaves and not red?
- 2508. Are Asian people genetically predisposed to be shorter than Europeans?
- 2509. Why is the brain dependent on glucose?
- 2510. What is the difference between these terms: clade, monophyletic group and taxon?
- 2511. Why does high pH result in the denaturation of DNA?
- 2512. When designing primers how important is the GC clamp?
- 2513. What happens to snakes that swallow rodents as a whole?
- 2514. How many organisms have ever lived on Earth?
- 2515. Is it possible to genetically modify a plant at home?
- 2516. Can white eggs be considered as non-vegetarian?
- 2517. Why is FAD, rather than NAD+, reduced in the succinate dehydrogenase reaction of the Tricarboxylic Acid Cycle?
- 2518. Why do plants fruit?
- 2519. Do male humans have a mons pubis?
- 2520. Constantly wiggling moth pupa will it emerge soon?
- 2521. Why does an electrical shock freeze up muscles?
- 2522. Do beneficial viruses exist? If so, what examples are there?
- 2523. Does cooking or ripening reduce the concentration of solanine in nightshade?
- 2524. What is solitary flower?
- 2525. Can birds suddenly suspend in the air in one position?
- 2526. Time lapse between fresh blood's exposure to air and that same blood turning darker red-brown

- 2527. Thermodynamics of spontaneous protein folding: role of enthalpy changes
- 2528. Why do bad smells make us vomit?
- 2529. What is the purpose of gluconeogenesis?
- 2530. Are acid-fast bacteria Gram-positive or Gram-negative?
- 2531. Why have humans evolved much more quickly than other animals?
- 2532. Dreaming after passing out
- 2533. Why do some bad traits evolve, and good ones don't?
- 2534. How many humans have been in my lineage? Is it almost the same for every human currently living?
- 2535. Difference between facilitated diffusion and secondary active transport in cells
- 2536. How sterile is working next to a bunsen burner?
- 2537. Evolutionarily, why do male rats and horses lack nipples?
- 2538. Why can all animals swim in water without learning to swim but humans cannot?
- 2539. Can the third sex be categorized as Male or Female?
- 2540. What causes fingerprints to form and why is the pattern formed unique?
- 2541. Why is glucose our primary source of energy?
- 2542. Why does sunburn cause fever?
- 2543. How does Bernoulli's Principle apply to the cardiovascular system?
- 2544. Did animals evolve from plants?
- 2545. Which are mobile and immobile elements in plants?
- 2546. How late in a human pregnancy can a zygote split?
- 2547. Why do kefir grains stop growing in soy milk?
- 2548. Why are the sex chromosomes called X and Y?
- 2549. NaCl role in CTAB DNA complex in DNA extraction

- 2550. How many agarose gel bands are typical for circularised DNA
- 2551. What do you see when your eyes are closed?
- 2552. Difference between Genus, Genus sp. and Genus spp
- 2553. Why are not all species hermaphrodites?
- 2554. Why does a fetus drink and urinate into the amniotic fluid?
- 2555. What are the advantages and disadvantages of being ambidextrous?
- 2556. At what temperature do human bones disintegrate?
- 2557. Why is Fast Fourier Transform applied to raw EEG data?
- 2558. Bright green caterpillar with long white stripes, few hairs, no extensions, possibly Noctuidae
- 2559. What is meant by 'individuals do not evolve, populations do'?
- 2560. Why does scar tissue change color?
- 2561. What is the cell matrix?
- 2562. Lifeless Lake in Siberia
- 2563. How is trangender female different from normal female biologically?
- 2564. Why 20 amino acids instead of 64?
- 2565. Why is the opposite of plantar flexion called "dorsiflexion"?
- 2566. Why can't a corn cob have 13 rows of seeds?
- 2567. Serotonin Does being aroused make you sleepy?
- 2568. Why are men stronger than women?
- 2569. What determines if an allele is dominant or recessive?
- 2570. Are there any animals that are both poisonous and venomous?
- 2571. What is the correct model for enzyme-substrate complementarity?
- 2572. Why do different bacteria have different shapes?

- 2573. Why do Type II Restriction Endonucleases cleave at palindromic sequences?
- 2574. Why doesn't recombination occur in male Drosophila?
- 2575. What is the maximum altitude where humans can survive?
- 2576. Can DNA be denatured at acidic pH?
- 2577. Why do bacteria die in a high sugar content environment?
- 2578. Why is it that heterozygous loci appear as two separate bands during gel electrophoresis while homozygous loci appear as one band?
- 2579. Branch length in phylogenetic trees
- 2580. How long does antibiotic-dosed LB maintain good selection?
- 2581. Is lemon water an alkalizing agent in the body?
- 2582. How long can a bee surive in a jar?
- 2583. Why do plants store energy as carbohydrates and not as fats?
- 2584. What does the (-) in the molecule name mean?
- 2585. How do SDS-PAGE gels differ in a Bis-Tris system vs. a Tris-Glycine system?
- 2586. How large is the variability in human bone thickness, and is "big boned" a real thing or not?
- 2587. What type of Insect Egg is this?
- 2588. Formula for number of divisions required to form x number of cells (Mitosis and Meiosis)
- 2589. The number of nipples (breasts) a species has?
- 2590. Origin, or source, of rhesus negative in human blood
- 2591. What does the 'V' stand for in ECG electrode names?
- 2592. Do proteins generally contain phosphorus and sulfur?
- 2593. Why does a high osmotic pressure pull water in, yet a high hydrostatic pressure pushes water out?

- 2594. Why do mice have a higher metabolic rate than humans?
- 2595. On which strand does the promoter sit?
- 2596. What is the functional difference between hemoglobin and ferritin?
- 2597. Does taking a shower have the same effect on muscles as warming up?
- 2598. Why do three nucleotides code for one amino acid? Why not 5 nucleotides?
- 2599. Does an annealing temp higher than primer's Tm contribute to primer dimer?
- 2600. Why is dimethyltryptamine (DMT) released during death?
- 2601. What am I looking at in Franklin's Photo 51 of DNA?
- 2602. Why is the number of PCR cycles limited?
- 2603. Why isn't vomit corrosive?
- 2604. If we add only 1 primer in PCR
- 2605. Equation for accurate prediction of PCR yield
- 2606. RNA polymerase and DNA helicase
- 2607. What is this white/translucent with brown back, larva/worm creature I found, in the UK, on my lettuce?
- 2608. Is cell wall and cytoplasm an organelle?
- 2609. What do the Clustal Alignment Symbols Mean?
- 2610. Why does temperature shock kill fish?
- 2611. What do ants do with human finger nails?
- 2612. How long do the periods of systole and diastole last?
- 2613. How many honeybees are there, and how has the number changed across time?
- 2614. Near point and far point of myopic eye
- 2615. Why do flies leave dirty spots on shiny/glossy surfaces?
- 2616. Why do yeast ferment Equal sweetener

- 2617. Why should evolution not be equated with progress?
- 2618. How many (taxonomic) families are there?
- 2619. Does one parent transmit more DNA to the offspring than the other one?
- 2620. If body temperature is 37°C (98.6°F), why are most people more comfortable at around 21°C (70°F)?
- 2621. Why do we have more sweat glands in our palms?
- 2622. Why doesn't crossing over happen in mitosis?
- 2623. Ratio of bleach to water required to disinfect COVID-19?
- 2624. What is the significance and method behind Ramachandran plots?
- 2625. Presence of MHC on red blood cells
- 2626. Do oysters feel pain?
- 2627. How to protect my mounted insect specimens from ... insects?
- 2628. How does one calculate how to dilute a solution to working strength?
- 2629. Why is glycine considered a nonpolar amino acid but a polar molecule?
- 2630. Do crocodiles age?
- 2631. Why upper surface of leaves is more green and shiny than the lower one?
- 2632. Pathophysiology of pink frothy sputum in pulmonary edema
- 2633. Do all proteins start with methionine?
- 2634. Value of r (intrinsic rate of natural increase)
- 2635. Why does ice reduce swelling?
- 2636. Nerves, Neurons, Axons and Dendrites by Example
- 2637. What makes DNA sticky-ends sticky?
- 2638. Why would taking antibiotics increase stamina and energy?
- 2639. How do I deal with sticky and viscous samples from cell lysates?

- 2640. What is the difference between Founder effect and Bottleneck effect?
- 2641. Why does A pair with T and G with C?
- 2642. What is the difference between a mechanistic and a statistical predictive model?
- 2643. What's the technical difference between fainting (and being unconscious) and falling asleep (and sleeping)?
- 2644. Where does the term "cos site" come from?
- 2645. Why does a blood test show ethanol when no alcohol was consumed?
- 2646. Why do I always close my eyes when someone takes a photo of me using a flash?
- 2647. What's the difference between protein and DNA behaviour during agarose gel electrophoresis?
- 2648. Does muscle get bigger by increase in size of individual cells or increase in number?
- 2649. What is the H+ gradient in mitochondria?
- 2650. Possible genotypes for blood types?
- 2651. What fruits will naturally ferment?
- 2652. What part of the cactus photosynthesizes?
- 2653. Why do human eyes glow red on a photo and dog's eyes green?
- 2654. What does "fit" mean in "survival of the fittest"?
- 2655. Is it painful for the hen to lay eggs?
- 2656. How much heat can a human sustain?
- 2657. Stop codons and exons?
- 2658. Why is PEG important for efficient yeast transformation?
- 2659. Why are potassium channels slower than sodium channels?
- 2660. Is it biologically possible for an adult's eye color to change?
- 2661. Why do I want to urinate when I touch water?

- 2662. Can a carnivorous animal consume plants with no adverse effects?
- 2663. What is the difference between a spore and a cyst?
- 2664. Why does the heart use lipids (and not glucose)?
- 2665. Why don't the apples seeds from grafted trees produce the same kind of apples?
- 2666. What is the concentration of ATP in an average cell?
- 2667. Upon drinking water for the first time in a long time, why do I sweat?
- 2668. Does capsaicin in food kill bacteria?
- 2669. Why are there no organisms with metal body parts, like weapons, bones, and armour? (Or are there?)
- 2670. What are the functions of disulphide bonds?
- 2671. What is the definition of a stringent/relaxed plasmid?
- 2672. Do Archaea have membrane-bound organelles?
- 2673. Why are only 6 water molecules formed in the aerobic degradation of glucose?
- 2674. How many cells are in prophase on this onion root tip slide?
- 2675. Why do pigeons kill their chicks when touched by a human?
- 2676. What is a lip? (upper lip and lower lip)
- 2677. Why does skin sometimes suddenly itch when you stretch it?
- 2678. What was the biological mechanism that allowed Tarrare to eat so much?
- 2679. What effect does vortexing have on a fluid sample that simple mechanical shaking does not?
- 2680. Does bright environment strain eyes more than dim?
- 2681. What is the normal blood water content
- 2682. Are mature erythrocytes prokaryotic?
- 2683. Explanation of the meaning of high-throughput

- 2684. What cells would have the CD3 marker on them (other than T-cells)
- 2685. How come large herbivores have such thin legs?
- 2686. Do bacteria die of old age?
- 2687. Why don't McDonald's fries decompose?
- 2688. What is the purpose of segments in citrus fruit?
- 2689. Why are hybrids infertile?
- 2690. Is there an evolutionary reason for the 5 electron transport complexes in plants and animals?
- 2691. Why does autosomal trisomy have more adverse effects than sex choromosome monosomy or trisomy?
- 2692. Can you consider a human as alive, or is it the cells on the body that are alive?
- 2693. What is the role of TATA box in transcriptional regulation?
- 2694. What is the equivalent of shutter-speed in Human eye?
- 2695. Why is our voice deeper in the morning?
- 2696. Why does it hurt when you take sweets, if you have cavities in your teeth?
- 2697. Do flies actually take off backwards?
- 2698. Why do we sweat after drinking water and running?
- 2699. Bad Eyesight and Evolution
- 2700. RNA or ribosome, which one moves during translation?
- 2701. How to prepare sample for SDS PAGE?
- 2702. Possible? When a pregnant woman suffers an organ damage, fetus would send stem cells to the damage organ to help repair it?
- 2703. What is the difference between absolute and relative fitness?
- 2704. Why is polyploidy much more common in plants than in animals?
- 2705. What happens to blood after a person dies?

- 2706. Does prolonged exposure to low pitch but low volume noise affect hearing or stress?
- 2707. Species Identification: Waterborne larvae, Texas USA
- 2708. What are the differences between how glucagon and cortisol work to increase blood sugar?
- 2709. Confusion on polarity and hydrophobicity of Proline, Tyrosine and Cysteine?
- 2710. Potato with purple veins!
- 2711. Are all dinosaur bones radioactive?
- 2712. Is epimysium same as fascia?
- 2713. How to calculate relatedness in haplodiploid organisms (mainly full sisters and full brothers)?
- 2714. Which blood vessel carries the most impure blood?
- 2715. Do we need to drink less water in humid weather than in dry weather?
- 2716. How would constantly growing nails have aided early human?
- 2717. What makes teeth feel sticky after drinking Coca-Cola?
- 2718. Why do ants live so long?
- 2719. Why are certain baby (water) fowl yellow?
- 2720. What is a pA(2) value?
- 2721. Why is mRNA needed in the Protein translation?
- 2722. Why do humans seem so much more prone to disease than animals?
- 2723. When is the second polar body extruded from the egg nucleus?
- 2724. What concentration of table salt is needed to kill bacteria in sweaty gym clothes?
- 2725. What's the evidence against SARS-CoV-2 being engineered by humans?
- 2726. If I graft two trees together while young, will they grow as one plant?
- 2727. meaning of the "reads" keyword in terms of RNA-seq or next generation sequencing

- 2728. How do trees lift water higher than 10 meters?
- 2729. What are the bare minimum nutrients required to survive as a human?
- 2730. Under what conditions does the body burn fats, proteins and carbohydrates?
- 2731. Why are red blood cells considered to be cells?
- 2732. Does the string "...CATCAT..." appear in the DNA of Felis catus?
- 2733. How do plants get carbon?
- 2734. Genetic linkage greater than 50 centimorgans
- 2735. How to obtain bacteria samples at home?
- 2736. Why is the Trendelenburg position used when placing and removing Central Venous Line catheters in the sub-clavian vein?
- 2737. Does ethanol destroy RNase?
- 2738. Why are there exactly four nucleobases in DNA?
- 2739. What is the explanation for the smaller number of tRNA than codons?
- 2740. Difference between the spinal cord and vertebrae column
- 2741. Why do humans have only two nipples?
- 2742. Does sweat contain DNA information?
- 2743. How can I resuspend a cell pellet without harming the bacteria?
- 2744. Does NADH inhibit gluconeogenesis?
- 2745. What portion of the electromagnetic spectrum do cats see?
- 2746. Does Sansevieria trifasciata really absorb Carbon Dioxide at night?
- 2747. What causes swelling after impact?
- 2748. Do octopuses have better eyes than humans?
- 2749. What is the difference between Reservoir and paratenic hosts?
- 2750. Why are there no known animals with an odd number of legs?

- 2751. What species is this black, blue and white bird?
- 2752. How does the brain's energy consumption depend on mental activity?
- 2753. Why did humans become bipedal?
- 2754. Why does the sweat of children not smell like adults?
- 2755. At what point during an action potential are the sodium potassium pumps working?
- 2756. Multiple start and stop codons in mRNA and pre-mRNA
- 2757. What is the difference between sequence, reads, and contigs of genetic material?
- 2758. How to interpret Percent identity matrix created by Clustal Omega?
- 2759. Does the DNA sequence of a butterfly match that of the caterpillar it used to be?
- 2760. How precisely can we sense temperature differences?
- 2761. Do trap door spiders have 10 legs?
- 2762. Why do parasites sometimes kill their hosts?
- 2763. How does a plant grow before photosynthesis is possible?
- 2764. Why do reptiles still move even after death?
- 2765. Why can't you taste food when you have a cold?
- 2766. Can defibrillation be done with a car battery?
- 2767. What is our skin made up of?
- 2768. What is the difference between the mitotic spindle and microtubules?
- 2769. Why isn't acetyl-coA an entry point for gluconeogenesis?
- 2770. Difference between protein channels, protein carriers and protein pumps?
- 2771. Does donating blood lower testosterone levels?
- 2772. How to increase the shelf life of yogurt without refrigeration?
- 2773. Solving Hardy Weinberg problems

- 2774. Why is DNA antiparallel? Can it be parallel?
- 2775. Cannot see images beyond a certain magnification with a microscope
- 2776. Why does ear wax taste sour?
- 2777. Is there an acceptable term for 'male fox' other than 'dog'?
- 2778. What decides whether a lysogenic cycle or a lytic cycle will take place?
- 2779. Why should I degas my gel solution for polyacrylamide gels?
- 2780. How many genders are there?
- 2781. Why is AUG the initiation codon?
- 2782. Why do cyanide and arsenic smell like almonds and garlic, respectively?
- 2783. Do we consume DNA and proteins of other organisms?
- 2784. How many nucleotide pairs code one gene?
- 2785. How does cholesterol affect the fluidity of a plasma membrane?
- 2786. What are some of the general characteristics of the DH5 alpha strain?
- 2787. My hand was stabbed with a pencil tip 10 years ago why is the graphite still visible?
- 2788. What animal has the longest juvenile period?
- 2789. What are the consequences of voluntary total celibacy?
- 2790. Why can't people talk while inhaling?
- 2791. How do plants get their O, for respiration during the night?
- 2792. Why do Bee stings cause swelling?
- 2793. The alignment of fingers in our hand
- 2794. Why don't we have hair on palms?
- 2795. What is difference between breed, variant, subspecies and species?
- 2796. Why do cells not store glucose?

- 2797. How does the cornea breathe during sleep?
- 2798. Are all action potentials the same shape and amplitude when graphed with respect to time?
- 2799. What is the life cycle of a wart?
- 2800. Why do we produce so many sperm?
- 2801. How tolerant are ants to cold?
- 2802. Why does uncompetitive inhibition decrease the Michaelis constant?
- 2803. Supercomputer Vs Human Brain
- 2804. What is an 'ex vivo' experiment?
- 2805. Bug Identification: Is this small tubular, black bug a bed bug?
- 2806. What are fish seeds?
- 2807. Are sensory receptors neurons?
- 2808. Difference between inbreeding and interbreeding
- 2809. What are the roles of guanidine-HCl and ethanol in binding of DNA to silica?
- 2810. How does a fetus retain a blood group different from its mother?
- 2811. Why does cucumber skin kill ants?
- 2812. Why is the blood thick in Wet Cupping / Hijama
- 2813. Does mixing alcoholic drinks really make you more drunk?
- 2814. What's the difference between a plant and an animal?
- 2815. Why does black and yellow indicate danger?
- 2816. What is the advantage of circular DNA in bacteria?
- 2817. How is the fluoride in toothpaste absorbed?
- 2818. Why are there N's after Sanger sequencing?
- 2819. What is the mIU unit as used in hCG hormone levels?

- 2820. Why does closing one eye in bright light allow me to open the other?
- 2821. Why Doesn't Hypercalcemia Cause Muscle Spasms?
- 2822. Why aren't organelles considered alive?
- 2823. Why do we weigh less in the morning?
- 2824. How do we know the presence of light when our eyes are closed?
- 2825. Health effect of worm in Guava
- 2826. Is there an RGB equivalent for smells?
- 2827. What happens when seeds are refrigerated before planting?
- 2828. If plants benefit from carbon dioxide, why is car traffic something bad?
- 2829. How to convert skin temperature to core temperature?
- 2830. Are all cells organisms?
- 2831. What is/are the molecular differences between HDL and LDL cholesterol?
- 2832. Why do birds move their heads abruptly?
- 2833. Does endo- and (or) exocytosis require energy? Do they belong to active / passive transport?
- 2834. What is the human energy consumption by organ?
- 2835. Is it possible for a person to become "reinfected" with the same strain of a virus?
- 2836. Are gametes diploid or haploid?
- 2837. Does carbon dioxide from carbonated drinks enter the bloodstream?
- 2838. Can the human eye distinguish colors in the periphery?
- 2839. How do warm-blooded animals keep their temperatures constant?
- 2840. Where do transamination and deamination take place?
- 2841. What does the human body use oxygen for besides the final electron acceptor in the electron transport chain?

- 2842. Is there any virus that contains both DNA and RNA in its genome?
- 2843. What are the differences between white and brown adipose tissue?
- 2844. Why do neurons die so fast without oxygen and nutrients?
- 2845. Black/dark-red smooth West African worm, full of red blood
- 2846. What is this black and white worm in a white case?
- 2847. Can a person survive on blood in place of water?
- 2848. Why do some people have cold hands and some have warm?
- 2849. What is the difference between "cistron" and "gene"?
- 2850. Why does having cold hands hurt?
- 2851. What makes a gene dominant or recessive
- 2852. What's the (or some of the) minimum(s) amount of atmospheric carbon dioxide needed by plants?
- 2853. GPCRs: Gi and Gs
- 2854. X Linked Hardy Weinberg Equilibrium Problem
- 2855. How can histidine be classified both as positively charged and hydrophobic?
- 2856. Why shouldn't dogs eat chocolate?
- 2857. What effect does the Barr body have, in relation to female Turner syndrome?
- 2858. What is a group of tortoises called?
- 2859. why does blood when oxidized over time become bluish green?
- 2860. What is the evolutionary reason behind the fragility of teeth?
- 2861. Why don't phospholipid bilayers dissolve?
- 2862. Why do different humans look different?
- 2863. Do camels have nucleated RBCs or enucleated RBCs?
- 2864. Why is beta-mercaptoethanol often added to cell culture media

- 2865. Are we more attracted to people of the same ethnicity?
- 2866. Why does blood come from mouth when people are shot in the chest area?
- 2867. What kind of a microscope do I need to see cell organelles?
- 2868. Difference between mutation and DNA damage
- 2869. What is the difference between hilum of the lung and root of the lung?
- 2870. Are humans more adapted to "light mode" or "dark mode"?
- 2871. When has an organism evolved enough to be called a new species?
- 2872. Why does the intensity of an action potential once generated at the trigger zone remain undistured throught the axon?
- 2873. Is a butterfly one or two animals?
- 2874. How many cyclic and non-cyclic photo-phosphorylation is required to produce one molecule of glucose?
- 2875. Why is the Red Fox colored bright orange?
- 2876. Is there anything that is completely non-toxic to humans at any dose?
- 2877. Why are there both stop and start codons?
- 2878. Which are the best apps and websites for insect identification?
- 2879. Do human cells contain only one copy of the genome?
- 2880. What is the distinction between the terms detrivores, decomposers, saprotrophs and saprozoic organisms?
- 2881. How long will norovirus live?
- 2882. Effect of closed eyes on balance?
- 2883. What is the difference between a species tree, a gene tree and a phylogenetic tree?
- 2884. Why do Guinea Pigs chirp / sing?
- 2885. For the human head, which direction is anterior, and which direction is ventral?
- 2886. Why is polyploidy lethal for some organisms while for others is not?

- 2887. Why is a mosquito feeding on human blood not a parasite?
- 2888. What's the difference between Ki and IC50?
- 2889. Why do most mammals have long snouts?
- 2890. Is there interphase between meiosis I and meiosis II?
- 2891. If human eyes watch an area, what's the shape of its capturing shape? Rectangular? Half spherical?
- 2892. What are the advantages and disadvantages of using beta-galactosidase compared to luciferase as a reporter gene?
- 2893. Why does Edema occur in Kwashiorkor?
- 2894. Why does anxiety cause diarrhea or constipation?
- 2895. How do I measure bacterial growth in agar dishes (either by cell mass or by cell count)?
- 2896. Problem on Probabilty of a restriction enzyme cutting a random DNA sequence
- 2897. Why can action potentials not be initiated at dendrites?
- 2898. What's the difference between stabilizing selection and balancing selection?
- 2899. How do ants know where they are going without eyes?
- 2900. Why have whales and dolphins not evolved to have gills?
- 2901. How should species density be calculated for a clumped distribution?
- 2902. Are all pathogens parasites?
- 2903. What is the difference between muscle fascicle and muscle bundle?
- 2904. Why do pink rain lilies flower only after rains, and not from being watered?
- 2905. Difference between genetic engineering and synthetic biology
- 2906. What is the difference between polar and charged amino acids?
- 2907. How should I ship plasmids?
- 2908. Why can't we feel pain when the eye lid touches the eye ball?

- 2909. difference between neurotransmitters and hormones
- 2910. Blue light in a fridge. Is it really beneficial or just marketing?
- 2911. Where do migratory birds go when it rains?
- 2912. Can I drink warm/hot tap water?
- 2913. How does prolonged exposure to high frequency noise affect hearing?
- 2914. What is the difference between SNP and STR?
- 2915. Why are bald heads so "shiny"?
- 2916. Why doesn't the human skin grow back exactly how it was before being damaged?
- 2917. Do human somatic cells have 46 chromosomes all the time?
- 2918. How many abdominal sclerites would be there in a cockroach?
- 2919. Do trees really get a large share of their mass from the carbon in the air?
- 2920. Stimulating an axon causes impulses to travel both ways?
- 2921. What is the difference between the cellular affix -cyte and -blast?
- 2922. Is it correct that the body only responds to the most painful stimulus?
- 2923. Why is oxygen needed for the electron transfer phosphorylation?
- 2924. How did the first life form on Earth reproduce without DNA?
- 2925. Why do endotherms need more food than ectotherms?
- 2926. Which organisms have introns?
- 2927. Are there any motile plants?
- 2928. Is there any relationship between heartbeat rate and life span of an animal?
- 2929. Biological siblings possible with <9 months age difference?
- 2930. Why do grapes not pea shrink when placed in strong sugar solution?
- 2931. Histidine aromaticity

- 2932. What is the maximum number of babies a human woman can have?
- 2933. Is it known how the first viruses formed?
- 2934. Why extract DNA from certain white blood cells instead of whole blood?
- 2935. How does inorganic phosphate inhibit alkaline phosphatase?
- 2936. How does a pine cone open?
- 2937. How does the body switch between aerobic and anaerobic respiration?
- 2938. Can plants produce oxygen at night (without light)?
- 2939. What are these white spots on a dracena
- 2940. Manual Primer Design for a gene on the reverse strand
- 2941. What do you call that part of the muscle that connects directly to the bone?
- 2942. Reasons why people say that AIDS/HIV doesn't exist
- 2943. Does 1kg of lettuce have more energy than 1kg of beef?
- 2944. Does sample buffer require EDTA for protein separation on SDS PAGE?
- 2945. Multi-nucleated cells: advantages and examples?
- 2946. What is the function of nodes of Ranvier in axons?
- 2947. What is the difference between sinew and tendon?
- 2948. For emphysema, which of the respiratory volumes is affected?
- 2949. What are differences between formation of embryonic disc in chick and mammal embryo?
- 2950. Relationship between turgor pressure and osmotic pressure?
- 2951. Can HIV be transmitted via mosquitos?
- 2952. Strongest muscle of Human Body
- 2953. Why does sex last so long?
- 2954. Is the complement system a part of innate or adaptive immunity

- 2955. How many mosquitoes would it take to "drain" enough blood to put a person into shock?
- 2956. Will humans and animals be harmed by frequencies outside their hearing range?
- 2957. Does the use of "var", "x", and/or "ssp" in a scientific name provide specific information?
- 2958. What does phasing mean?
- 2959. How do marine mammals control buoyancy?
- 2960. What is the role of tracrRNA in CRISPR-cas9?
- 2961. Are there cats with black skin?
- 2962. What does the term 'bioavailability' mean?
- 2963. What are these shrimp-like insects in my cat's water bowl that appear overnight
- 2964. Are spiders part of the study of entomology?
- 2965. Why can cones detect color but rods can't?
- 2966. Is it true that viruses cannot be seen with phase-contrast microscopy?
- 2967. Why sister chromatids and daughter cells but not brother chromatids and son cells?
- 2968. What is the purpose of measuring both VS (volatile solid) and TS (total solid)?
- 2969. What is the difference between "Bisphosphate" and "Diphosphate" in biochemistry?
- 2970. What is genomic imprinting?
- 2971. Why do red blood cells maintain Iron in the Haem group in the +2 (ferrous) oxidation state?
- 2972. Why pick just a single bacterial transformed colony
- 2973. Can cell exist without Ribosomes?
- 2974. Why babies cry after they are born?
- 2975. Why scientific names of animals & plants are made difficult to spell & remember?
- 2976. Why are irises unique?

- 2977. Is evolution a fact?
- 2978. Why do you need you room dark for melatonin release?
- 2979. How did aquatic dinosaurs go extinct?
- 2980. How difficult is to renature a protein?
- 2981. Free software for measuring parts of an image?
- 2982. What are the "minimum requirements" for a single cell?
- 2983. Why do I see the world in blue when I open my eyes?
- 2984. Confusion about resting membrane potential and the Na/K pump
- 2985. How is Hypertonic Urine Produced in a Mammalian Kidney?
- 2986. Green Film Build up in Glass Water Bottle
- 2987. Are Whales More Intelligent Than Humans?
- 2988. How do inward rectifier potassium channels work in the heart?
- 2989. How many ATP molecules are formed?
- 2990. Identify little green long legged bug
- 2991. Small mottled beetle identification
- 2992. Consequence of touching Formaldehyde
- 2993. Are identical twins clones?
- 2994. Apart from nerve cells and muscle cells, what types of cells do not undergo mitosis in adult man?
- 2995. What is this spider? Two black stripes
- 2996. What is the appropriate method to send a strain?
- 2997. What would cause crows to be attracted to a human body?
- 2998. How is Glyceraldehyde 3-phosphate converted into glucose?
- 2999. Diffusion of Hypotonic solution into solution with glucose and starch

- 3000. Why Crocodiles don't eat Hippos?
- 3001. Does animal blood, esp. human, really have similar salinity as ocean water, and does that prove anything about evolution?
- 3002. Are there animals which can see movements better than shapes or colors?
- 3003. Making sense of enzyme Km comparisons
- 3004. Do ants see, have brain?
- 3005. Do Red blood cells(mammals) really have no organelles?
- 3006. Why do some vegetables taste bitter?
- 3007. Why do neurons have only one axon?
- 3008. Questions about insects eating flour and living in the cracks of a wooden cutting boards
- 3009. Photosynthesis: What Powers the Splitting of Water?
- 3010. How is the size of a gene defined?
- 3011. Is Bramble (blackberry bush) carnivorous?
- 3012. What's the effect of oxygen deficit on plants?
- 3013. Is episome a plasmid or a virus?
- 3014. What are housekeeping and constitutive genes?
- 3015. Why do snakes not have eyelids?
- 3016. How does a brain distinguish stimuli?
- 3017. How do scientists kill the bacteria they themselves made resistant?
- 3018. Just how dangerous is ethidium bromide?
- 3019. Why do Hot/Cold drinks taste sweeter once returning to room temperature?
- 3020. Hamming distance between two DNA strings
- 3021. Is Chargaff's rule really applicable?

- 3022. How does boiling water revive cut flowers?
- 3023. How much weight/volume do microbes occupy within the human body?
- 3024. Are the social-distancing measures implemented against SARS-CoV-2 also suppressing the spread of other viruses?
- 3025. Is the promoter region of a gene transcribed?
- 3026. Life without DNA?
- 3027. Unsure about definition of "n" and "C" values in mitosis
- 3028. Why is it beneficial for trees to grow that tall?
- 3029. Average dimensions of the human back (anthropometry)
- 3030. Why is only one primer used for DNA sequencing instead of two?
- 3031. Does human brain produce nicotine?
- 3032. Larger Ant in trail
- 3033. How many molecules NADH are produced in the Krebs Cycle?
- 3034. How do Proteins migrate in MES vs. MOPS
- 3035. Why is the human ear most sensitive to 4000 Hz tones?
- 3036. What is the strand specificity of a reference genome?
- 3037. Why we do not get hurt from HCl secreted in the stomach?
- 3038. Can you answer Ray Comfort's question on Biological Evolution?
- 3039. What causes morning wood?
- 3040. Small yellow bug with black head and three black stripes on the back
- 3041. Separating DNA Fragments by Gel Electrophoresis. Are all the strands for one size the same?
- 3042. How long do your eyes need to adapt to darkness and reach full contrast?
- 3043. Why should benzalkonium chloride (an antifungal agent) be used during your laundry machine's "rinse" cycle, not its "wash" cycle?

- 3044. What causes the colors we see in eyes?
- 3045. What is "enzymatic activity"?
- 3046. How does this headless fish still move?
- 3047. Why does evolution not make our life longer?
- 3048. Preferred Aspect Ratio for Human Eyes
- 3049. Wim Hof Method claims Alkaline Blood is Good. Contradictions? Counterproof?
- 3050. Do male animals visually perceive females as more/less attractive?
- 3051. Given ATP synthase's structure, how can 3.33 protons ultimately synthesize one and only one ATP?
- 3052. How long will a vegetable live for after being harvested?
- 3053. Why haven't prey evolved the ability to always outrun their predators?
- 3054. How different are these terms: Phylloclade, Phyllode, Cladophyll and Cladode?
- 3055. Mechanism of Myosin Head Bending in Cross Bridge Cycle Power Stroke Phase
- 3056. What is exactly a phosphoester bond?
- 3057. How does formaldehyde cause protein-DNA crosslinking?
- 3058. Gel Electrophoresis loading dye and more
- 3059. Why is carbon dioxide produced in alcohol fermentation but not in lactic acid fermentation?
- 3060. How does the human body metabolize gasoline?
- 3061. What is the speed of blood?
- 3062. Photosystem 1 and 2; P680/P700; Chlorophyll a/b
- 3063. Why would a plant evolve to produce an addictive chemical?
- 3064. How fast can a panda run?
- 3065. Difference between viral and human genetic material

- 3066. Why do animals use glycogen for their polysaccharide storage whereas plants use starch?
- 3067. What causes the human body to "jump" when we get a shock?
- 3068. Which hormones can cross the blood brain barrier?
- 3069. Reason for conversion of glucose to fructose in glycolysis
- 3070. What is the function of epidermal ridges on human fingers (that produce fingerprints)?
- 3071. what is the difference between early blight of potato and late blight of potato?
- 3072. Use of amino-acid sequences versus use of nucleotide sequences in phylogenetic analysis
- 3073. Why is the Hydra Biologically Immortal?
- 3074. Why does the stomach ache if you take a brisk walk after lunch or dinner
- 3075. Why do adult insects have 6 legs?
- 3076. Do birds have navels?
- 3077. Why do people sing?
- 3078. Why doesn't the herbicide 2,4-D damage lawn grass?
- 3079. Carbon Monoxide and High-Oxygen-Affinity Varieties of Hemoglobin
- 3080. What causes a 'stuffy' or 'runny' nose when you have a cold?
- 3081. What is the advantage of using starter cultures for growing bacteria?
- 3082. How's the membrane potential restored to resting state after hyper polarisation?
- 3083. Do humans have Coelom?
- 3084. Is it true that cats can drink sea (salted) water?
- 3085. Can a woman give birth to twins with different fathers?
- 3086. What is Pan for in pan-caspase?
- 3087. Is glycolysis the beginning part of fermentation, or does fermentation follow glycolysis?

- 3088. Are transgender people born physically different from others?
- 3089. Solubility of DNA in water
- 3090. What is the benefit of fever during infections?
- 3091. What is the definition of "dry weight" and "dry cell weight"?
- 3092. Difference between Condensin and Cohesin proteins?
- 3093. What is the effect of non-vaccinated people on vaccinated people?
- 3094. Why did abiogenesis only happen once?
- 3095. How to calculate the geometric mean titer (GMT) of titers from a haemagglutination assay (influenza)?
- 3096. Possible reasons for DNA getting stuck in well
- 3097. What is a microsome?
- 3098. Why are H+ ions pumped out instead of in during cellular respiration
- 3099. Why do we like salt?
- 3100. How do lilies sense day and night and open and close their flowers?
- 3101. How are lysosomes formed?
- 3102. Plasmolysis vs Flaccidity in cells
- 3103. Do men and women have the same number of genes?
- 3104. Regulation of Glycolysis and other pathways at 'irreversible' reaction steps
- 3105. How do I clean phenol contaminated RNA without losing any of the sample?
- 3106. Do babies resemble their father?
- 3107. Why isn't a virus "alive"?
- 3108. Difference between Bioscience and Lifescience
- 3109. Explanation for hyenas asymmetric legs length
- 3110. Why do stars disappear when I look at them?

- 3111. What are chiasmata?
- 3112. Why do smaller mammals move intermittently?
- 3113. Why is there more variation in proteins than genes?
- 3114. What sections of the brain can be removed without causing instant death?
- 3115. Is there a medical condition in which you can't cut your hair?
- 3116. How does aspirin "thin" blood?
- 3117. Trauma, blood loss and thirst
- 3118. What is the difference between abiogenesis and spontaneous generation?
- 3119. Why we shiver/tremble/shake while performing some work which requires high accuracy?
- 3120. Why do obese people tire quickly?
- 3121. Why cancer disease is named after sun signs?
- 3122. How does a Plasmodium move?
- 3123. Cause of Crease in Drupe Fruit
- 3124. What is an irreversible reaction?
- 3125. How did the first self replicating organism come into existence?
- 3126. How did the Spanish Flu disappear?
- 3127. Is it better to take a half dose of paracetamol and a half dose of ibuprofen together rather than a full dose of either?
- 3128. What is immunopanning (vs. immunoprecipitation and FACS)?
- 3129. Why does yawning impair hearing?
- 3130. What is the relationship between sexual and natural selection?
- 3131. Can plants suffer from CO2 poisoning?
- 3132. Ammonia smell after physical exercise? What is the explanation?

- 3133. Essential amino acid codons
- 3134. Do the enzymes and compounds in saliva help with stain removal?
- 3135. Do pulled hair from the root grow back?
- 3136. Why isn't the phosphoglycerate kinase reaction of the glycolysis pathway irreversible?
- 3137. How do the first and second law of thermodynamics adhere to breakdown of glucose?
- 3138. What is the difference between second and third generation sequencing
- 3139. Why is the bond between oxygen and iron in hemoglobin at a specific angle?
- 3140. What did we learn with Nazi human experimentation?
- 3141. What would cause bands to appear lower on a nonreduced SDS-PAGE gel?
- 3142. Why do chickens not try to get up if laid on their backs?
- 3143. What does dominant generation mean
- 3144. Can ants sense food from a long distance?
- 3145. Why do people sleep with their eyes open?
- 3146. Is human face more resistant to cold than other body parts?
- 3147. Why are antibiotics prescribed with a viral infection like a cold?
- 3148. What is the difference between a predator and a parasite?
- 3149. How does Golgi's neural histological stain work?
- 3150. Primary function of the enzyme lipoprotein lipase
- 3151. Why is the neuronal plasma membrane more permeable to potassium ions than sodium ions?
- 3152. How does a baby deer stand the day it's born?
- 3153. Why do I still see a bright light after looking directly at it?
- 3154. Do all cells produce the same proteins?
- 3155. Is there any complex organism that is both autotroph and heterotroph?

- 3156. What is the difference between rheobase and threshold?
- 3157. Why do we squint when tasting very sour things?
- 3158. If evolution is not about increased complexity, why does so much complexity evolve?
- 3159. Autosomal Recessive Trait when skipping one generation
- 3160. Ancestral Allele explanation
- 3161. What is the closest species to humans in animal kingdom?
- 3162. Why are plants classified in living things?
- 3163. Is the DNA different in each type of cell? What DNA is passed to offspring?
- 3164. How do people who have lost both of their legs produce red blood cells?
- 3165. What's the name of the fibrous strands that hold the seeds in a pumpkin?
- 3166. What is a focal copy number variation?
- 3167. What is the standing genetic variation?
- 3168. Is cancer caused by vitamin B17 deficiency?
- 3169. Why do we have nerves in our teeth?
- 3170. Isopropanol precipitation of DNA duration and magnitude of cold storage
- 3171. How long does it take for dopamine to reach normal levels after a significant drop?
- 3172. Why are bruises not lethal?
- 3173. Why can't we move our toes and some fingers separately?
- 3174. Breathing becomes harder in certain wind conditions
- 3175. What are the major causes of mutations in DNA?
- 3176. Renin enzyme or hormone?
- 3177. Can any protein be phosphorylated?
- 3178. Is this bedbug or book louse?

- 3179. Why are 6 turns of the Calvin cycle needed to make one molecule of glucose?
- 3180. Can animals like squirrels leave "gifts" or tribute for humans?
- 3181. What does this equation about DNA replication mean?
- 3182. What causes people to feel sleepy due to recycled air?
- 3183. What is the meaning of "E-value" in the BLAST search?
- 3184. What's the reason for isovolumic contraction and isovolumic relaxation?
- 3185. Why do plants need oxygen through their roots?
- 3186. What is meant by a muscle fiber being glycerinated?
- 3187. How do you calculate or predict the charge of a protein at pH 7?
- 3188. Differences between Gradualism and Uniformitarianism
- 3189. Are these cats calico?
- 3190. Can the dendrites of sensory neurons be a meter long?
- 3191. Do aquatic plants have stomata?
- 3192. Definition of "Niche Complementarity"
- 3193. Dark veil when getting up too fast
- 3194. Difference between strand-specific and not strand-specific RNA-seq data
- 3195. What is happening when we get a tan?
- 3196. How much energy does human body fat contain?
- 3197. How to avoid air bubbles while pipetting?
- 3198. How did the cardiovascular system evolve?
- 3199. Why do people feel pleasure when using roller coasters / centrifuges?
- 3200. Is there a purpose for nucleated red blood cells in reptile, avian and fish blood?
- 3201. is there an easy way to remember taxonomy?

- 3202. What is a set of chromosome and what is a pair of chromosome
- 3203. Interpreting graph of mitosis and meiosis
- 3204. Identifying whether amino acids are hydrophobic or hydrophillic
- 3205. Is female the default sex in humans?
- 3206. Can more than one antibody bind the same antigen
- 3207. Why is uracil, rather than thymine, used in RNA?
- 3208. Where does the 'C' in exhaled CO, mostly come from?
- 3209. Why do stomata close in salt water?
- 3210. Cyanobacteria: Gram negative or Gram positive?
- 3211. Identification of small fuzzy flying insect (pic)
- 3212. How to DIY preserve pet DNA today so that it can be used in 20 years
- 3213. Solubility of Amylopectin and Glycogen in water
- 3214. Why aren't drugs delivered directly into arteries, rather than veins?
- 3215. What determines which strand of DNA is transcribed by RNA polymerase?
- 3216. What is splice junction pairs?
- 3217. Difference in length of Okazaki fragments
- 3218. What are tail currents?
- 3219. What is this unusual structure inside this banana?
- 3220. If a mother had a child with her own son, could a paternity test yield positive result for the son's father?
- 3221. When running gels what is the difference between constant volts or constant amps?
- 3222. How is the transcription direction of RNA polymerase determined?
- 3223. Why are there no wheeled animals?
- 3224. What does it mean to have a Y-DNA Haplogroup "R-M512"?

- 3225. Writing methods section on PCR amplication in a paper
- 3226. What determines whether an action potential is inhibitory or excitatory?
- 3227. What is the difference between vegetable and animal fats?
- 3228. Does consuming sodium benzoate (preservative E211) cause problems during pregnancy?
- 3229. Why doesn't nitrogen diffuse into blood?
- 3230. What is a "mechanistic study"?
- 3231. How does paracetamol interfere with immune system?
- 3232. Why is green fur not a thing?
- 3233. Are tendons and ligaments classified under the muscular or bone system?
- 3234. Excretion of various wastes and water requirement
- 3235. Is organ transplantation race dependent?
- 3236. For how long can a person drink sea water?
- 3237. What is the difference between the basal membrane and the basal lamina?
- 3238. Definition of "Effective population size"
- 3239. Difference/similarity between adaptive radiation and species divergence?
- 3240. How does the social structure of lion prides prevent incest?
- 3241. How does ecology differ from biology?
- 3242. Where does my extra blood volume go after giving birth?
- 3243. Genes & Map Units
- 3244. How can alcohol cause blindness?
- 3245. Did cats evolve from monkeys? or vice versa?
- 3246. How to interpret the breeders equation?
- 3247. Difference between protozoa, protists, protoctista?

- 3248. Insect identification Is this a bedbug?
- 3249. Why does getting soap in your eyes cause redness and irritation?
- 3250. Do "shooting" animals exist?
- 3251. What are the advantages of forgetting?
- 3252. Species Identification small insect: is this a bed bug?
- 3253. What is the surface area to volume (SA:V) ratio of a red blood cell?
- 3254. Can an octopus survive if one of its three hearts stops working?
- 3255. Why "Having chlorophyll without photosynthesis is actually very dangerous" and "like living with a bomb"?
- 3256. What is MHC haplotype?
- 3257. Difference between thylakoids and lamellae in a chloroplast?
- 3258. What is difference between High quality and low quality proteins
- 3259. Are human chromosomes connected or separate molecules?
- 3260. Why do tattoos persist if body cells are regularly renewed?
- 3261. What determines the spiral direction of plants?
- 3262. Why does cutting onions cause tears?
- 3263. Why do we grow so much hair on our heads compared to our bodies?
- 3264. How many copies of a gene?
- 3265. Why are some neurones unmyelinated?
- 3266. Can butterflies still fly after their wings are touched?
- 3267. Cross section through the right arm question
- 3268. Why can only small molecules pass through the phospholipid bilayer of the cell membrane?
- 3269. Why do chameleons move back and forth?

- 3270. Why do bananas turn black after some time?
- 3271. Why do I need a flu shot every year, while many other vaccinations last years or even a lifetime?
- 3272. The real definition of carbohydrates
- 3273. Behaviour of chromosomes and genes
- 3274. Can one see flickering of a light bulb at 50 Hz?
- 3275. How does the NAD+/NADH ratio affect lifespan in vertebrates?
- 3276. Why do you die if you cannot breathe?
- 3277. Can plants be grown using lights in the home?
- 3278. Can the human brain be reduced to a binary system?
- 3279. Spider Identification Michigan
- 3280. Why do you need the intrinsic pathway when you have faster extrinsic pathway?
- 3281. Do ants or other insects sleep, and if so why?
- 3282. what is the function of satellite in a chromosome?
- 3283. Single hormone opposite effects
- 3284. Are eukaroytic promoters located in the 5' UTR region?
- 3285. What prevents backflow of blood from right atrium to vena cava during atrial systole
- 3286. How many recombination events are there per generation in humans?
- 3287. DNA topology Linking number vs twist?
- 3288. When did mouth pipetting stop becoming a way to handle liquids in a lab?
- 3289. Why are many fruits sour?
- 3290. What is a DNA-binding domain?
- 3291. How do bile salts affect lipase activity?
- 3292. Can ovulation and menstruation occur simultaneously?

- 3293. List of Asymmetric Animals
- 3294. Difference between mice and rats
- 3295. Difference between negative allosteric regulation and non-competitive inhibition
- 3296. What is the longest-lasting protein in a human body?
- 3297. Names of nerves in hands, shins and face
- 3298. Does one wing of fly contain harmful microbes and the other contain only antibodies?
- 3299. what is the difference between pituitary dwarfism and thyroid dwarfism?
- 3300. Why do sneezes come out the mouth?
- 3301. Can bacteria be killed by purely physical trauma?
- 3302. Is there a difference between "cell line" and "cell strain"?
- 3303. How much energy does a lion contain?
- 3304. What is difference between Incest and Inbreeding?
- 3305. Why does so much variation exist within species?
- 3306. Is there any danger in putting a magnet in your ear (next to your brain)
- 3307. Why do men have nipples?
- 3308. How do ants transport water?
- 3309. Alternatives to trypsin for cell detachment?
- 3310. What is a catalytic domain of an enzyme?
- 3311. Headshot = instant kill?
- 3312. Why does immunity from the flu vaccine appear only after two weeks?
- 3313. Why can I see a light flicker when it's in my peripheral vision?
- 3314. A way to measure ripeness of a fruit
- 3315. What causes "ear rumbling"?

- 3316. Pipetting damage to cells
- 3317. Is it possible that by mutation a human could see infrared or other 'colours'?
- 3318. Purifying a linear plasmid after restriction digest?
- 3319. Why are nitrogenous bases of DNA hydrophobic if they can hydrogen bond?
- 3320. Do trees grow from the bottom or the top, or is that oversimplifying?
- 3321. Why does the pET- expression vector contain a Lacl gene additionally to the one in the genome?
- 3322. Measuring protein concentration, Bradford vs. Nanodrop?
- 3323. What is heteroduplex?
- 3324. What is the evidence that australopithecines were bipedal?
- 3325. What determines the size and shape of a cell?
- 3326. Why do we get bored of certain food items after repeatedly eating them?
- 3327. Doesn't the sarcomere contract during isometric contraction?
- 3328. Crow branch pecking behaviour
- 3329. Has there ever been an attempt to create nutritionally tailored food for adult human consumption?
- 3330. Is there a correlation between total neurons and intelligence?
- 3331. How do viruses or bacteria survive outside the body long enough to spread?
- 3332. Cause of a extra vertebra in the human body
- 3333. Can animals also get Down syndrome?
- 3334. How to read cladograms/phylograms?
- 3335. Is there an advantage to linear chromosomes?
- 3336. Are all mutagens carcinogens?
- 3337. Why do people with type O blood have anti-A and anti-B antibodies?

- 3338. Do tall people have more cells?
- 3339. Why is beta actin commonly used as a control in Western blots?
- 3340. What is the difference between sequence alignment and sequence assembly?
- 3341. Are neural connections one-way?
- 3342. Why does alcohol cause the hemolysis of RBC in a large proportion?
- 3343. Insect identification pantry moth vs clothes moth
- 3344. Cellular Respiration/Fermentation Problem Leading to Lack of Energy
- 3345. Do any animals prepare food?
- 3346. What's the aim of genetically modifying of foods/organisms?
- 3347. When was it discovered XY chromosomes decide the sex of a child in humans?
- 3348. Maximum loading volume for agarose gel with 10 well comb
- 3349. Are 'homeothermic' and 'endothermic' synonymous?
- 3350. Coracoid vs. Coronoid Etymology/Naming Choice?
- 3351. What is the physiological difference between snorting/swallowing cocaine
- 3352. Programming Languages for Bioinformatics
- 3353. Do identical twins have the same fingerprint?
- 3354. What is the purpose of Y-shaped adapters in Illumina sequencing?
- 3355. Is cell membrane living
- 3356. Location of t tubule in muscle
- 3357. How does Artificial Selection work?
- 3358. What are the differences between cancer and tumour?
- 3359. How does soap affect membrane permeability? Which component of the membrane does it affect?
- 3360. What is Biradial Symmetry?

- 3361. How does alum help in blood coagulation?
- 3362. Why is the mosquito a definitive host in malaria?
- 3363. How long does it take for memory to disperse after death?
- 3364. Effects of lactic acid ingestion
- 3365. Growth factors vs. mitogens
- 3366. What does it mean when a patient suffering from malignant tumor (cancer) has been declared cured?
- 3367. Why didn't the polar bear change its color from white to black during evolution to absorb heat?
- 3368. Bigger animals needs bigger amount of oxygen?
- 3369. Can a cancerous cell from outside cause cancer in a healthy person?
- 3370. Are there predators evolved to eat puffer fish?
- 3371. How is a bacterial strain defined?
- 3372. How much of what we eat ends up in the toilet?
- 3373. Why do some animals have 8 Limbs (e.g. Spiders, Octopuses)?
- 3374. Do ants have a "stay away" signal?
- 3375. Is a walnut a nut or a drupe?
- 3376. Do plants absorb toxins from the soil?
- 3377. Who created the codon wheel chart (not as a table)?
- 3378. Why is a slow worm not considered a snake?
- 3379. What is a gene transcript, how is it different from an allele?
- 3380. Do men have significant hormonal cycles?
- 3381. Are there organisms with fewer than 1000 neurons?
- 3382. Besides hemoglobin, what proteins are present in red blood cells?

- 3383. Function of the Auricle in heart
- 3384. How to make µg/ml concentrations of proteinase-K?
- 3385. Why is tRNA called an adaptor molecule?
- 3386. Why can't humans drink sea water?
- 3387. Does osmosis take place in prokaryotic cells?
- 3388. Do all chromosomes in one human body contains same genome?
- 3389. How will rising carbon dioxide levels in the troposphere affect photosynthetic producers?
- 3390. What is the human ear's temporal resolution?
- 3391. Like other animals, why humans don't have species & breeds?
- 3392. Can any plant regenerate missing tissue?
- 3393. Can humans ever directly see a few photons at a time? Can a human see a single photon?
- 3394. What if \$rB=C\$ in Hamilton's rule?
- 3395. Why haven't we cured the common cold yet?
- 3396. Is lysergic acid diethylamide (LSD) metabolized in the body?
- 3397. If I buy a banana at the market, is there any chance that an insect is hiding inside it?
- 3398. Are Young Girls Stronger than Young Boys?
- 3399. Why does a cockroach not die even after decapitation?
- 3400. Are there plants that produce (audible) sound?
- 3401. Does it make sense to classify all humans in a single species?
- 3402. Do body lotions enter into bloodstream of people? And how do they do it?
- 3403. Why don't antiseptic agents kill 100% germs?
- 3404. Cleanliness of cast iron never cleaned between meals

- 3405. If alcohol is a depressant, why does it makes certain people more hyperactive?
- 3406. Why can't we grow more teeth?
- 3407. How many times has SARS-CoV-2 mutated?
- 3408. How to find the concentration of an enzyme?
- 3409. Is there a link between digestion and nightmares?
- 3410. How does a thymidine block halt DNA synthesis?
- 3411. Can a reservoir host act as a vector?
- 3412. Why do some mammals not have testes in a scrotum?
- 3413. Why Did 6 Great Ape Species Survive But Only 1 Hominid Species?
- 3414. Virus cannot survive on surface after certain time period, but why and how?
- 3415. Do humans produce rennin?
- 3416. Identify this smooth-cocoon worm from Southern India
- 3417. Why are some vegetables/fruits seasonal?
- 3418. How do female hormones cause blood to clot?
- 3419. What determines the colors and patterns of a clam shell?
- 3420. How do nutrients get to the cells they need to get to?
- 3421. Do animals get sick from eating dirty food or eating off the floor?
- 3422. What is the mechanism behind "acquired" alcohol tolerance?
- 3423. What determines excrement's caliber?
- 3424. What is the difference between a human being, a Homo sapiens, and a Neanderthal?
- 3425. Do these things contain amylase?
- 3426. How many different kinds of polypeptides, each composed of 12 amino acids, could be synthesized using the 20 common amino acids?
- 3427. Difference between Premature Atrial Contraction and Atrial Fibrillation

- 3428. Why does mint oil feel cold on the skin?
- 3429. What hydrolyses aspirin within the digestive tract and blood stream?
- 3430. What is the difference between cytosol and cytoplasm?
- 3431. Can the dead be brought back to life by viruses?
- 3432. What will happen if a scorpion pierces itself?
- 3433. Can Naegleria fowleri enter through your ear?
- 3434. How are Maggots Sterilized (Disinfected)?
- 3435. Why do only two sexes exist for animals?
- 3436. Species identification; clusters of big plump red bugs in Taipei
- 3437. What's the physical meaning of Svedberg unit?
- 3438. Why do we see better on stretching our eyelids to the side?
- 3439. How are arms different from legs?
- 3440. Causes of monozygotic twins
- 3441. Are Asians more genetically homogenous than other races?
- 3442. Cell evolution: immortality vs reproduction
- 3443. Why are lions the only social cats?
- 3444. Osmolarity vs. Tonicity
- 3445. Why is one phase of a plant dominant (Alternation of generation)?
- 3446. What are hot spots on human body?
- 3447. Why can't our eyes smoothly transition from side to side without focusing on a moving object?
- 3448. Is there a maximum amount of antibodies your body can keep?
- 3449. Why do eyes change colour after death?
- 3450. Bacterial capsule vs. slime wall

- 3451. what is meta-sympathetic nervous system?
- 3452. Why would a single celled organism evolve to be multi-celled?
- 3453. Why would lactate be high in diabetics?
- 3454. polarity of DNA
- 3455. How efficient is the human body at metabolizing food?
- 3456. What are Codominant vs Dominant Genetic Markers?
- 3457. Why does max heart rate decrease with age?
- 3458. what makes our body warm?
- 3459. Why does Penicillin only affect bacterial cell walls
- 3460. What's up with this leaf?
- 3461. Very high 260/230 absorbance ratio of an RNA sample
- 3462. Do the pH and other ions affect the hydrolysis of ATP
- 3463. Thermodynamics of Forming Peptide Bonds
- 3464. Difference between pipette and pipettor
- 3465. How long can one leave sample in lysis buffer for DNA extraction?
- 3466. Why is ATP used as a source of energy rather than glucose?
- 3467. How deep does water have to be so a mosquito can lay viable eggs in it?
- 3468. What is the evolutionary rationale for palm sweating?
- 3469. Are there examples of cells with more than one nucleus?
- 3470. Location of nucleotide synthesis and transport
- 3471. Are there biological reasons why life expectancy is lower for men in most countries of the world?
- 3472. The biggest underground living animal
- 3473. How does lactulose cause the removal of ammonia from the colon?

- 3474. The GUG start codon in E. coli: identity of initiating tRNA and efficiency of translation
- 3475. Do ants feel pain?
- 3476. What is the scientific opinion on plus lens therapy?
- 3477. How does plant grafting work?
- 3478. What exactly are computers used for in DNA sequencing?
- 3479. Can food swallowed when a person is upside down reach the stomach?
- 3480. How can a monocot get so massive?
- 3481. Why are pili more common in Gram negative bacteria than in Gram positive?
- 3482. Are fish and reptilian scales homologous?
- 3483. Why do live crabs in a bucket prevent each other from escaping?
- 3484. Circulation through the liver in light of drug metabolism
- 3485. Why is pepsin able to operate at low pH?
- 3486. What is the point of a runny nose during a cold?
- 3487. How do trees manage to grow equally in all directions?
- 3488. Heterocyst function in cyanobacteria and its localization
- 3489. Will dissolved proteins pass through a 0.2 micron filter?
- 3490. Does DNA polymerase always go the same direction?
- 3491. Gene distance and Recombination Frequency: Mechanism
- 3492. Why is GTP, not ATP, produced in Gluconeogenesis & TCA Cycle?
- 3493. Are SNPs and alleles the same thing?
- 3494. What is the difference between eugenics and evolution by natural selection?
- 3495. Which organism has the smallest genome length?
- 3496. Terminology for parts of the leg

- 3497. How to set up a slow cooling on an AB Veriti thermal cycler?
- 3498. Will the "frog in boiling water not jumping out" work on warm blooded animals
- 3499. Why is the function of lacA (encoding thiogalactoside transacetylase) not clearly understood?
- 3500. Can dead scorpions still sting?
- 3501. What is a "monomeric polypeptide"?
- 3502. Does the lung absorb organic food?
- 3503. What happens to tube nucleus of the pollen tube after fertilisation?
- 3504. Is the Common Cold an Immune Overreaction?
- 3505. Significance of upper-case, lower-case and Ns in UCSC DNA files
- 3506. Surgical vs anatomical neck
- 3507. How long could Earth's oxygen supply last if no new oxygen were produced?
- 3508. What is the ratio of head to waist and waist to floor of the human anatomy?
- 3509. Are there lifeforms that have more than 2 sexes?
- 3510. Do spouses begin to share genes over time?
- 3511. Does human eye lens have a magnification of its own?
- 3512. Evolution- Variations, adaptations and selective advantages
- 3513. Why Is Most Life Symmetrical Externally But Not Internally?
- 3514. After how many generations descendant is not more related to ancestor, than to a random individual in an ancestral population?
- 3515. Light and Dark Reaction of photosynthesis?
- 3516. What is the difference between Crossbreeding, Outbreeding and Outcrossing?
- 3517. RNA isolation- role of pH
- 3518. Are there more/less favourable phases of menstrual cycle to donate blood?

- 3519. Why is the inside of a cell negatively charged
- 3520. What is the distance between the sciatic nerve and the colon at the closest point?
- 3521. What is the role of potassium acetate in plasmid extraction?
- 3522. Mammal body density
- 3523. Is Plasmablast a precursor of Plasma cell?
- 3524. Height and natural selection in humans?
- 3525. What is full form of r and K in r-selection species and K-selection species?
- 3526. At what point is a picked flower considered dead?
- 3527. Are nucleic acids found in cell membranes?
- 3528. Why do we go blind for a few seconds after switching off the light?
- 3529. Why do we need red blood cells?
- 3530. How do bull semen companies get the semen out of the bulls?
- 3531. Is poison venomous and is venom poisonous?
- 3532. Calculating pairwise Fst from allele frequencies
- 3533. Do potassium channel blockers affect the resting membrane potential?
- 3534. Does coloring affect the perception of depth?
- 3535. Why does Rigor Mortis occur after death?
- 3536. Does any animal species have two sexes and more genders?
- 3537. Why would glucocorticoids promote glycogenesis and not glycogenolysis?
- 3538. Optical Density conversion to cfu / ml
- 3539. What are the function(s) of Alu elements in the cell?
- 3540. What causes the development of antibiotic-resistant strains of bacteria?
- 3541. What does conditional analysis of a SNP in a GWA study entail?

- 3542. Are mitochondria dead?
- 3543. Why are goosebumps so ineffective at keeping us warm?
- 3544. Earwax versus Mucus
- 3545. Can the human body create glucose out of fat?
- 3546. Why does it hurt the next day after doing significant exercise?
- 3547. What is the difference between embryology and developmental biology?
- 3548. How do white Caladiums perform enough photosynthesis to support their mass?
- 3549. Is it possible to exclude article types in a PubMed search?
- 3550. Is there a downloadable list of all species along with their traditional classification?
- 3551. How can I preserve hair or saliva for future genome sequencing?
- 3552. Why don't chilli peppers taste as hot in space?
- 3553. How does most of lymph get back into the blood stream? (I don't mean the lymphatic system)
- 3554. On the genetics behind caste marriages
- 3555. What is the difference between a circular and a cat's-eye (slit) pupil?
- 3556. Will ants arriving with travel luggage form a new colony?
- 3557. What is the distinction between F' plasmid and R plasmid?
- 3558. Does class switching occur both in B cells and Plasma cells?
- 3559. Does the hepatic portal system form capillary beds?
- 3560. What is the so called "hepatic glucose production"
- 3561. Growing E. coli at room temperature?
- 3562. What part of the brain controls depth perception?
- 3563. "X" in stock solutions
- 3564. What is the effect of a pure-oxygen environment on a plant?

- 3565. Are the asymmetrical positions of owl ears consistent across species with this trait?
- 3566. Why are proteins always made in N to C direction?
- 3567. What type of white hard thing grows on lobster
- 3568. What is the rest state for eyelids Open or Closed?
- 3569. Do spinal cord reflexes (such as the knee-jerk reflex) continue to function under general anaesthesia?
- 3570. How loud a sound would need to be to wake someone up?
- 3571. Can a human smell through the ears?
- 3572. Scoring matrices (BLOSUM & PAM) in BLAST and other sequence-comparison programs
- 3573. Is heat released during work due to ATP breakdown or a increased blood flow?
- 3574. What is the criticality of the ribosome binding site relative to the start codon in prokaryotic translation?
- 3575. Why do red blood cells contain haemoglobin and not myoglobin?
- 3576. How deep under water can humans open their naked eyes without damaging them?
- 3577. Are mitochondria alive?
- 3578. Is honey in hot green tea unsafe?
- 3579. Fetal development, gastrulation and embryonic disc
- 3580. Depolarization and hyperpolarization in stereocilia of the inner ear
- 3581. "Higher plants" or "vascular plants"?
- 3582. Meaning of units in ELISA based tests?
- 3583. How does the immune system "learn" from a vaccine?
- 3584. How to check if a fastq file has single or paired end reads
- 3585. Should we induce fever to assist healing?
- 3586. What concentration of sugar is optimal for baker's yeast fermentation?

- 3587. Does THC excretion increase if urine volume increases?
- 3588. Does our eyeball increase in size as we grow?
- 3589. What actually happens when my leg 'falls asleep'?
- 3590. What are tendons made of specifically
- 3591. Can rats pass on memories of a maze to their offspring?
- 3592. For how long can a raven stay airborne (a week or more)?
- 3593. Why isn't Fluorine, or Neon, the final electron acceptor in cellular respiration?
- 3594. Are the irises an exact match in a human's set of eyes?
- 3595. Is aquafaba readily digestible?
- 3596. What is the Shine–Dalgarno sequence?
- 3597. How can I accurately measure glucose concentration in culture media?
- 3598. Definition of Cofactor, Coenzyme and Prosthetic Group
- 3599. Deciduous trees in tropical rainforest
- 3600. Enzootic vs Epizootic?
- 3601. Is ovum + ovum fertilization possible for human?
- 3602. Is nicotine toxic to humans?
- 3603. Why do human females have periods?
- 3604. Is sugar absorbed into the bloodstream through the walls of the mouth?
- 3605. How do we know that everybody's DNA fingerprint is unique?
- 3606. What is the name of the bond between phosphate and the sugar in a nucleotide?
- 3607. Examples of enzymes working in reverse?
- 3608. Introductory biology text for an outsider
- 3609. Why are the human knees and elbows bent in an opposite direction

- 3610. How many times did terrestrial life emerge from the ocean?
- 3611. Wearing sunglasses during a solar eclipse
- 3612. How many primary oocytes in human female body at birth?
- 3613. How long does it take for a cricket to die at subzero temperatures?
- 3614. How do you increase eumelanin but not pheomelanin?
- 3615. How long can E. coli stocks be stored at -20°C?
- 3616. How can the child and the mother have different blood types?
- 3617. Is there enough vitamin B12 in lakes, rivers and ponds, for humans not to need to take supplements?
- 3618. Are there species that occupy several roles in the food hierarchy?
- 3619. What is the function of the Moderator band?
- 3620. Dark, long-legged spider with long mouthparts in front, long "pincers" in the back and very short 3rd pair of legs (northern Taiwan)
- 3621. Background correction when reading ELISA with TMB substrate
- 3622. Why did the sensitive plant (Mimosa pudica) evolve its leaf-closing mechanism?
- 3623. What is the genetic basis of blood type (ABO) system?
- 3624. Why does snow not stick to the fur of wolves and some breeds of dogs?
- 3625. Is this a bedbug or a book lice or what?
- 3626. what is the reason for using 70% alcohol (ethanol)!?
- 3627. What is this feather like bug with no legs?
- 3628. Why are vaccines for polio taken orally while vaccines for TB need to be injected?
- 3629. Magnetic-activated cell sorting vs. FACS
- 3630. Why is rabies incurable?
- 3631. Beetle with long, slender iridescent green body and orange legs

- 3632. Where do mushrooms get their energy from?
- 3633. Why do flies fly in circles?
- 3634. Why does the apex of the human heart usually point to the left?
- 3635. Why do we have five fingers?
- 3636. Why does the sacrum fuse together?
- 3637. How does HIV mutate into other strains while keeping their virulent phenotype?
- 3638. How much oxygen does a plant use up at night?
- 3639. Do we know all the possible human hair colors?
- 3640. Why is there a difference in the rotation of the tail fin in fish compared to marine mammals?
- 3641. Which processes are during the latent period of ventricular contraction?
- 3642. What is the "lifecycle" of an average eschar and what types of cells are involved in each stage?
- 3643. Why did humans lose their fur?
- 3644. Do lobsters possess a nervous system to feel pain?
- 3645. Amount of blunt force to kill a person
- 3646. Why are some berries poisonous?
- 3647. What insect is this? Looks like a spider but with six legs and long antennae
- 3648. Are Italians genetically separated from other Europeans?
- 3649. Why is the DNA codon table "equal" to the RNA codon table
- 3650. What do the letters 'p' and 'c' mean in mutation descriptions?
- 3651. Why isolated, recombinant plasmid DNA without any restriction is often detected in agarose gel electrophoresis as three DNA bands?
- 3652. Do colour-blind people see white?
- 3653. What do butterflies eat?

- 3654. Do women experience more bonding hormones than men after sex?
- 3655. Is tyrosine hydrophobic or hydrophilic?
- 3656. What are good resources for self-learning modern molecular biology concepts?
- 3657. What happens to deep sea creatures if they reach the surface?
- 3658. The effect on the efficacy and potency of a non-competetive antagonist binding to the active site of the receptor (dose-response curve)
- 3659. Ill effects of urea and NH *f* on metabolism
- 3660. Why human cannot stand still in one place?
- 3661. Why does crying lead to a running nose and reddened nose tip?
- 3662. Why does vaccine development take so long?
- 3663. How does an amoeba move?
- 3664. How does one determine the sex ratio of a ZZ and ZW cross?
- 3665. Larva in cat's water dish
- 3666. Is ATP Synthase a channel or an enzymatic protein?
- 3667. Doubly-compound leaf examples?
- 3668. Can Blood Types Change?
- 3669. Why does my eyes see a red spot when over exposed to light?
- 3670. How does electrolarynx work?
- 3671. Does the genetic sequence of SARS-CoV-2 end with 33 A's?
- 3672. What is the purpose of back-crossing mice for multiple generations?
- 3673. Why are there no trees in Texas?
- 3674. Why are organs not harvested from deceased cancer patients?
- 3675. How did the endoplasmic reticulum come to be?
- 3676. What is the purpose of the incus?

- 3677. How does protein denaturation work?
- 3678. How can I find a complete human genome file?
- 3679. How does chromosome number get halved in meiosis I?
- 3680. Why did the process of sleep evolve in many animals? What is its evolutionary advantage?
- 3681. How does translational coupling work in prokaryotes?
- 3682. Can you Transfer Cancer Between People via Saliva or other Bodily Fluids?
- 3683. What is the actual storage form of energy in muscles? ATP or Glycogen?
- 3684. Why does the kidney of a cow have lobules, why the kidney of a human hasn't any?
- 3685. What determines testosterone exposure in womb, baby's genetics or mom's body?
- 3686. Is monogamy a human innate behaviour?
- 3687. How long can I store extracted RNA?
- 3688. What is this animal looking like an Axolotl?
- 3689. Should hydrogen peroxide be applied on a bloody nose?
- 3690. Can Squirrels Eat Every Mushroom?
- 3691. How is NAD+ used in lactic acid fermentation after it is oxidized from NADH?
- 3692. Why didn't Escobar's hippos introduced in a single event die out due to inbreeding
- 3693. Is "computational biology" different from "bioinformatics"?
- 3694. Do the right-handed people tend to use the right side teeth of their jaw to chew food more often than the left-handed people?
- 3695. Hardy-Weinberg Color-blind
- 3696. What animal has the strongest immune system?
- 3697. When do the spindle fibers attach to the chromosome
- 3698. if sperm contains only 50% of someone's DNA how can it be used to identify someone?

- 3699. How fast is water transported from roots to leaves?
- 3700. How do animals decide what to eat and what not?
- 3701. How "exactly" is Rabies transmitted?
- 3702. Why are there six reading frames if only one strand of DNA is referred to as the 'coding strand'?
- 3703. Differences between synaptic connections
- 3704. What could cause a forest of bent trees?
- 3705. How does a virus take control over the host cell?
- 3706. Will salting the ground kill insects and spiders?
- 3707. How do download a list of the gene length of all genes?
- 3708. Why can't we see in low light if staring long enough?
- 3709. What is the role of acetylcholine in blood pressure regulation?
- 3710. What percent of the population has some form of synesthesia?
- 3711. What is dental health like in animals?
- 3712. Is it true that bees and wasps don't sting if struck by hand while they are in flight?
- 3713. What implications has the missing 2'-OH on the capability of DNA to form 3D structures?
- 3714. Do large animals experience a meaningful delay when moving their most distant appendages?
- 3715. How do I read a sequence logo?
- 3716. How does waking up from an alarm clock work?
- 3717. Human evolution: Where *exactly* did the first human come from, whose parents were not?
- 3718. What is the best way to clean immersion oil from the microscope lens?
- 3719. How can a drink contain 1.8 kcal energy while 0 g fat/carbs/protein?

- 3720. Transfer of antibodies in breast milk of humans
- 3721. Why Do Ruminants Require A Multi-Compartment Stomach To Digest Food?
- 3722. Which of the two chromosomes in a pair is expressed?
- 3723. A new species of small bird?
- 3724. Why does a gene have two alleles?
- 3725. Name of This Black and White Dove
- 3726. What prevents predator overpopulation?
- 3727. Gene & Protein nomenclature: N-Myc, c-Myc, et. al
- 3728. Are there any solitary species of ant or termite?
- 3729. How many cells does the smallest animal have?
- 3730. Why do crabs spit?
- 3731. Why don't we bleed interstitial fluid?
- 3732. What does static electricity generated by plastic combs do to our hair?
- 3733. Binary fission in amoeba
- 3734. Examples of animals with different number of chromosomes that can interbreed?
- 3735. Is it possible to stop yourself from going into shock?
- 3736. Why do humans seem to be the only mammals that like spicy food?
- 3737. Why are human immune systems comparatively weaker than other animal immune systems?
- 3738. What is the size (diameter) of the SARS-CoV-2 virus?
- 3739. Can two humans with 44 chromosomes produce viable offspring?
- 3740. Is there any use of CO, in human body?
- 3741. Why does wood become darker when it ages?
- 3742. Breathing faster to lose (more) weight?

- 3743. Which surfaces contain no epithelial tissues and which epithelial tissues are vascular?
- 3744. Is there a durable surface that ants can't pass?
- 3745. ECG wave names origin
- 3746. What is the difference between a polysaccharide and a macromolecule?
- 3747. Do male marsupials have a pouch?
- 3748. The probability of indirect human fertilization?
- 3749. Is a DNA molecule a single strand of polynucleotide or two of them linked together?
- 3750. Can beavers control the direction a tree falls?
- 3751. Chitin, homo or heteropolysaccharide?
- 3752. Do animals other than humans have different blood types?
- 3753. How does the Pectoralis Major work when doing a bench press?
- 3754. What is Mendelian Randomization, and how is it used to infer causality in epidemiology?
- 3755. difference between transcriptional activator and general transcription factors?
- 3756. I just saw this bird outside my apartment. Anyone know what it is? (Texas, US)
- 3757. Why do antidepressants have a delayed onset of action?
- 3758. What is the biochemical explanation for tingling and burning sensation in brain due to certain food?
- 3759. What would happen if one eats silica gel?
- 3760. Can species be paraphyletic?
- 3761. Books on population or evolutionary genetics?
- 3762. Albinism inheritance problem: what are the father's alleles if he got an albino kid?
- 3763. Why can hair grow without limit while eyebrow cannot?
- 3764. What is "chain identifier" in PDB?

- 3765. What is 'refractile' cell morphology?
- 3766. What are the differences between isozymes, allozymes and isoforms?
- 3767. What is the fastest marine mammal?
- 3768. Do all sea creatures that have scales have to have fins?
- 3769. fibroblast cells and fibers
- 3770. The pectoral fins of a whale and a shark. Are they analogous organs?
- 3771. Why does ostrich meat look and taste more like beef than chicken?
- 3772. Over winding vs under winding of a DNA
- 3773. Why does a light object appear lighter in your peripheral vision when it's dark?
- 3774. Why are oceans said to have "low productivity" in terms of photosynthesis?
- 3775. DpnI over-digestion
- 3776. Identification of beetle: black with orange stripe and 2 orange dots
- 3777. What is this worm-like creature?
- 3778. Is it possible to move your arms above your head when handcuffed in the back?
- 3779. What made this tiny honeycomb-like structure?
- 3780. Why do we have two eyes?
- 3781. Is it possible to be allergic to the yolk of an egg but not the egg white?
- 3782. What is the significance of and biological mechanisms demonstrated in lac operon?
- 3783. What is the evolutionary advantage of having pubic hair?
- 3784. Species-area relation graph
- 3785. If a gene is located on the X chromosome, does that mean males are never heterozygous for these genes?
- 3786. Why are cell lines frozen in vapor phase?
- 3787. How does Australia fit into 'New World' / 'Old World' dichotomy?

- 3788. What part of food gives the blood red color?
- 3789. Do all parts of a plant contain the same type of cell?
- 3790. Can HIV mutate to become airborne?
- 3791. Is there a reason why human eyesight and plants make use of the same wavelength of light?
- 3792. What is this droplet of liquid that comes out of a mosquito?
- 3793. Species Identification: Small white maggot/larvae, Missouri USA
- 3794. How do dopamine agonists like amphetamine/methylphenidate affect acetylcholine signalling?
- 3795. Do all Gram negative bacteria cause septic shock?
- 3796. Why do we have two kidneys but one liver?
- 3797. How does strength of a pulse related to EKG(ECG)?
- 3798. Can the Monkeypox virus be spread by mosquitoes?
- 3799. Where do the four ADPs come from in the second stage of glycolysis?
- 3800. Why are the genomes of Humans 99.5% the same?
- 3801. Why animals can move and plants cannot in general?
- 3802. Why do bulls have a hump?
- 3803. What are the identifying characteristics of a Jellyfish?
- 3804. Why do we use an autoclave at 121°C (250F)? (Origin)
- 3805. Is there any biological reason that professional swimming is dominated by white people?
- 3806. Identity By Descent vs Identity By State
- 3807. why didn't natives of south america evolve darker skin?
- 3808. How do I get a brighter DNA bands
- 3809. Are these microscopic star-like structures on a dead leaf some sort of organism? If

- so, which one?
- 3810. How the lungs clear themselves?
- 3811. Are pulp cells (in oranges) normal plant cells?
- 3812. Can animals train to be noticeably stronger, faster, more agile... than other animals of the same species?
- 3813. Are human teeth only diphyodont or both diphyodont and monodont?
- 3814. How much time does HIV live outside the body?
- 3815. Was the dodo a dinosaur?
- 3816. How many species have existed on earth?
- 3817. How is eye color in humans inherited?
- 3818. What is the Giemsa staining of chromosomes?
- 3819. What is in the space between neurons in a brain?
- 3820. Why are sugars in whole fruits not digested the same way sugars in juice are?
- 3821. Are there any open plant databases (database/library/collection), containing species information and pictures?
- 3822. Chart of blood pH across different animal species?
- 3823. Do fishes die from old age?
- 3824. What limits the speed of human perception?
- 3825. Does osmosis require a protein channel?
- 3826. The human has 46 double chromosomes or simple chromosomes?
- 3827. What is the brain's preferred energy source? Glucose or ketones?
- 3828. Please help me to identify this red worm
- 3829. Why do organisms excrete nitrogenous wastes?
- 3830. How does evolution produce complex organs

- 3831. Why does DNA have its name?
- 3832. 0.1 M sodium citrate in 10% ethanol and DNA solubility
- 3833. Is the eukaryotic nucleus composed of a single or double membrane?
- 3834. Why do humans suffer anxiety when they view "Trypophobia trigger images"?
- 3835. What is an isolated beta bridge?
- 3836. Where do amino acids get attached to tRNA and where is it synthesized?
- 3837. what is the ancestral relationship between dogs and cats and bears?
- 3838. How does coconut water solidify into hardened coconut meat?
- 3839. Why cytotoxic T cells don't kill dendritic cells when they present antigen?
- 3840. difference between "Petri dishes" and "Petri plates"?
- 3841. Is the Michael Jackson skin pigmentation disease realistic?
- 3842. What is the difference between "lineage restriction" and "differentiated" in terms of stem cell biology
- 3843. Was HindII the first restriction endonuclease to be extracted?
- 3844. How do ants sense imminent rainfall?
- 3845. How does non-homologous end joining (NHEJ) work?
- 3846. Why some eggs are bile stained?
- 3847. Do insects' muscles become stronger with exercise?
- 3848. Using anatomical terms for human organs and parts of plants
- 3849. How can natural selection occur at species level whilst not occuring at the individual level?
- 3850. Why is the Kakapo more attracted to humans than its own kind?
- 3851. Why does depolarisation by high intracellular K+ trigger calcium channels opening?
- 3852. Does pH affect Michaelis constant?

- 3853. Difference between sequential and conformational epitope
- 3854. What gives things their colour?
- 3855. Restriction Mapping of Plasmid Assignment
- 3856. Why do flies "rub" their front legs when resting?
- 3857. Why are there more stomatal openings on the lower surface of a dicot leaf?
- 3858. Clarify pre-column pressure vs. system pressure vs. backpressure for prepacked columns used with the äkta purification system
- 3859. Why doesn't ovulation occur in both ovaries simultaneously?
- 3860. What's the recommended maximum passage number for mammalian cells (NCI-H441)?
- 3861. Transcription and translation of prokaryotic operons
- 3862. Is there an evolutionary purpose to armpit perspiration?
- 3863. Why does supercoiled DNA run faster?
- 3864. Abdominal muscles during inspiration/inhalation
- 3865. How is vitamin B12 stored in the body although it is water-soluble?
- 3866. Complementarity Determining Regions (CDRs)
- 3867. Is there any kind of immortality in plants?
- 3868. Earth overshoot day: is it a sound concept?
- 3869. Why can't amylase break down glycogen?
- 3870. What evolutionary reason is there for having the urinary duct and reproductive organs so close together?
- 3871. Why do my muscles move slowly when cold?
- 3872. Is a stab wound to the back lethal?
- 3873. Can you be immune to a coronavirus?
- 3874. How can grass-fed livestock generate fat?

- 3875. What is the point of Meiosis II, considering Meiosis I already produced haploid cells?
- 3876. Why should a tumor look like a crab?
- 3877. Why do bananas grow curved?
- 3878. What kind of spider is this? Brown with white spots
- 3879. How accurate is facial reconstruction in forensics?
- 3880. Do animals exhibit handedness (paw-ness?) preference?
- 3881. What are two butterflies doing when they fly together, 'hitting' each other?
- 3882. Why are considered to be exceptions to the cell theory?
- 3883. What species is this rabbit-like animal?
- 3884. Why aren't we ambidextrous?
- 3885. How do you break up cell clumps when passaging?
- 3886. Classification and differences between homologous, homoplastic, analogous, derived and ancestral traits?
- 3887. How to interpret dual luciferase assay result (RLU)?
- 3888. Why should we use the NA12878 dataset for benchmarking?
- 3889. What do the names of Immunoglobulin subtypes mean?
- 3890. How to find the amino acid that is bound to a tRNA with the anticodon?
- 3891. Perception of distant lights without glasses
- 3892. How does the counter-current multiplier work in the nephrons?
- 3893. Is it possible to condition the body to reduce bruising?
- 3894. How long do viruses, such as Zika, stay in the body?
- 3895. Transmission of disease from mother to fetus
- 3896. Is death by cyanide the same as suffocation?
- 3897. Is kissing a natural human activity?

- 3898. When contracting a muscle will the muscle spindle stretch or contract?
- 3899. Does scratched Teflon coated frying pans contain carcinogens which can cause cancer?
- 3900. Differentiating Taenia solium and Taenia saginata Infections
- 3901. What is the average Leg-to-Foot Length/Width Ratio?
- 3902. Why don't animals produce alcohol
- 3903. Why are some genes dominant over others? What is the mechanism behind it?
- 3904. Purpose of dilution streaking or streak purification
- 3905. How efficient is the sodium-potassium pump?
- 3906. How is centriole number maintained during meiosis?
- 3907. How does a tree trunk sprout and grow after being cut?
- 3908. Why doesn't glucagon promote glycogenolysis in muscle?
- 3909. What is this brown spider with black and white stripes? (Atlanta, Georgia)
- 3910. How to edit/insert new gene after cutting with CRISPR/cas9
- 3911. What is the difference between multiple allelism and polymorphism?
- 3912. How does this illusion work?
- 3913. Are chromosomes from each parent split between gametes with equal probability (esp. in humans)?
- 3914. What does vitamin B6 and B12 absorption depend upon?
- 3915. How long can Cholera bacteria survive in a dead host?
- 3916. Why is allolactose the Lacl inducer?
- 3917. Are all emerging viral diseases of the past 100 years zoonoses?
- 3918. Crossing white eyed Drosophila with sepia eye
- 3919. What is cytoplasmic localization?

- 3920. Photolysis of Water?
- 3921. What is this insect in Southern California?
- 3922. Why do we get 'bags under our eyes'?
- 3923. Is it impossible for a retrovirus to be lysogenic?
- 3924. Is Pork more prone to carrying higher loads of parasites than Beef?
- 3925. Basic step by step methods for PCR & Gel electrophoresis class
- 3926. Why do humans find baby animals cute?
- 3927. iodine: how did they manage without it in old ages? (People who were living far from the sea)
- 3928. Why aren't nucleic acids on Nutrition labels?
- 3929. What is this stick-like creature?
- 3930. Assume the gene for freckles is dominant. A woman with freckles has a son that does not. What would have to be the genotype of the mother?
- 3931. How long does a tan last?
- 3932. How to identify the age of a "living" person?
- 3933. How many species did Carl Linnaeus classify?
- 3934. Why our body does not produce polyunsaturated fatty acids?
- 3935. What does a diamond symbol actually mean in pedigree?
- 3936. How much do crocodiles eat?
- 3937. Hardy-Weinberg sex linked formula
- 3938. Identification: Creepy 'nope'
- 3939. How does water buffer a sudden drop in temperature?
- 3940. Are fully vaccinated people more likely to not get infected at all with COVID-19?
- 3941. What is the difference between naive and adjusted p-values in a GWAS study?

- 3942. Effects of mRNA vaccines on human body processes
- 3943. Highest Pressure Human Body Can Survive In?
- 3944. What kinds of bacteria live in water bottles?
- 3945. How many species can have the same scientific name?
- 3946. Why is the pituitary gland located in the brain?
- 3947. What are the genus and species name of different breeds of dog?
- 3948. Are Pond Algae Edible for Humans?
- 3949. Orientations of codon and anticodon
- 3950. Do viruses or bacteria have a flavour?
- 3951. Can viruses be toxic?
- 3952. Gibbs free energy and its change for the hydrolysis of ATP
- 3953. Why do living fossils like crocodiles remain so constant and not evolve?
- 3954. Speciation of humans?
- 3955. How does the immune system fight scabies mites?
- 3956. Why do some plant species have lobed leaves, while similar species in the same habitat don't?
- 3957. Where is the line between Anaerobic and Aerobic?
- 3958. Basic Amino Acid Residue Binding Mechanism to DNA
- 3959. More proteins from diet when common cold and flu?
- 3960. Why do most animals never seem to evolve over millenia?
- 3961. Do neurons secrete multiple neurotransmitters, or just one type?
- 3962. Purpose of poly(A)+ RNA?
- 3963. Interpretation of picture of human chromosomes
- 3964. I found a bug on my bedroom floor. Is this a bedbug?

- 3965. Cooperativity of haemoglobin and oxygen dissociation curve of haemoglobin
- 3966. What is the meaning of a reported OD600 value?
- 3967. Do men have more extreme variations than women?
- 3968. Can proteins move outside cells?
- 3969. For how long would a flu-contaminated parcel be an effective disease vector?
- 3970. What kind of microscope should be used to view biological structures (such as spores) roughly 5 µm in length?
- 3971. How do liver and lung metastases cause death?
- 3972. Blood pH at Higher Altitudes
- 3973. Why dogs move their noses when smelling?
- 3974. How to get rid of mosquitoes in a small lake
- 3975. What are the units of Q10 (temperature sensitivity)?
- 3976. How many sensory neurons are in the human body?
- 3977. Does the human ear adapt to noise levels?
- 3978. What happens when cells in your body run out of telomeres?
- 3979. Can adenosine be cleared?
- 3980. Definitions of hermaphroditism, dioecious and monoecious?
- 3981. What is the general term for tree-dwelling animals?
- 3982. Are glycoproteins and glycolipids present only on the cell surface membrane?
- 3983. Why does dehydration lead to low blood pressure
- 3984. pl and pH relationship in context of ion exchange protein purification
- 3985. Why do neurons have a negative resting potential?
- 3986. Origin of the double membrane of mitochondria and chloroplasts
- 3987. Is this a crayfish hole? or wasp nest?

- 3988. Do men have a higher genetic variance than women?
- 3989. How does Pothos grow in only water?
- 3990. Why do apples taste sweeter at the bottom?
- 3991. Help identify this worm-like thing
- 3992. Effect of transpiration on plant growth
- 3993. Are there verbs for "undergo mitosis" and "undergo meiosis"?
- 3994. Are hens and roosters the same species?
- 3995. What species is this grey insect with red antennae and mouthparts?
- 3996. What kind of bug is this on my curtain?
- 3997. How likely is a lack of DNA match with a distant relative?
- 3998. Hot water and bacteria
- 3999. Which predators only eat some parts of their prey? (Warning graphic content)
- 4000. Is secondary follicle or Graafian follicle arrested in the second metaphase of oogenesis?
- 4001. Difference between flexion and contraction?
- 4002. Pharmacokinetics: why do certain drugs follow zero-order kinetics?
- 4003. Online Molecular and Cellular Biology Video Lectures?
- 4004. What are sources for learning bioinformatics for self-learning?
- 4005. What are the consequences of inbreeding?
- 4006. What is the difference between Single Nucleotide Polymorphism (SNP), Mutation and Structural Variation(SV)?
- 4007. Anomalous base pairing of nucleotide tautomers
- 4008. Role of calcium chloride during competent cell preparation
- 4009. What is the name of this red plant?

- 4010. Why is there smooth muscle in our bronchioles?
- 4011. Is the motor cortex identical to the sensorimotor cortex?
- 4012. What is the magnification necessary to see pond life
- 4013. What is the name of this fruit?
- 4014. Explaining a branch with visibly different leaves on Citrus japonica
- 4015. What negative effects can pinhole glasses have on the body?
- 4016. Do plants have distinctive DNA genomes from each other like humans do?
- 4017. What are artifacts in microbiology?
- 4018. What kinds of cells does human saliva contain?
- 4019. How does sodium ion increase blood pressure?
- 4020. How do the lungs act as a sieve to trap blood clots?
- 4021. What is the fastest growing bacterium?
- 4022. Why did life not evolve to use radio?
- 4023. Is each blade of grass an individual plant or not?
- 4024. What happens to lactic acid I eat?
- 4025. At any given moment, how much energy is stored in the human body as ATP?
- 4026. Did predators evolve eyes first?
- 4027. How do birds deal with their eyes drying out at high speeds?
- 4028. Difference between clonal and subclonal mutations
- 4029. How statistically significant was the "sweaty T-shirt" experiment?
- 4030. Black insect with antennas and large abdomen
- 4031. Does breath-holding cause permanent brain damage?
- 4032. Did the Zika virus mutate?

- 4033. Why do we urinate more often in winter compaired to summer?
- 4034. Effect of pH on protein solubilty and denaturation
- 4035. How do I know which molecular structure is glycine's "base state"?
- 4036. Is there a bacterium that became a virus?
- 4037. Why does gaining a hydrogen in biology considered reducing a molecule?
- 4038. Worm in water identification help
- 4039. Why does the affinity of haemoglobin for oxygen increase at higher elevations?
- 4040. Is our genome decaying (see "Genetic Entropy"), and, if so, is this evidence for our genome being "young"?
- 4041. In which direction does ATP synthase rotate?
- 4042. Do birds ever fly in clouds?
- 4043. Why Do Nerve Signals Get Crossed?
- 4044. Effects of Polyphasic vs Monophasic sleep in humans
- 4045. Why does air from the nasal cavity not go into the oesophagus?
- 4046. Why does a distraction cause a longer reaction time?
- 4047. What is the difference between the evolution of fins in whales and fish?
- 4048. For fish, does a bony skeleton have any advantages over a cartilage skeleton?
- 4049. Why do sneezes come in pairs or more?
- 4050. What exactly is the time constant of an ion channel gating?
- 4051. Why is blood removed from meat?
- 4052. Mutation That Loses Stop Codon
- 4053. What are these caterpillars eating a potato plant?
- 4054. Why Lungs can't work in water and gills can't work in air?
- 4055. How exactly does alcohol solution kill or neutralize viruses?

- 4056. Is the rate of photosynthesis higher than the rate of respiration?
- 4057. What is the fibre axis in the Watson and Crick paper?
- 4058. Why do sparrows jump instead of walk when they are not flying?
- 4059. Number of reading frames in nucleotide sequence
- 4060. Why are urban birds still scared of humans?
- 4061. Hardy Weinberg Equilibrium after 5 Generations
- 4062. What is the lowest pressure at which plants can survive?
- 4063. How does the eye know whether to focus further out or nearer in order to bring a blurry object into focus?
- 4064. How can you develop a bacterial infection when taking antibiotics for another area of the body with a bacterial infection?
- 4065. Where to put the gene after eukaryotic promoter for best expression levels?
- 4066. What is the actual chance of sibling incest child suffering from a genetic disorder?
- 4067. Examples of plant families that contain species that are safe for human consumption and species that are poisonous to humans?
- 4068. How can some animals see ultraviolet or infrared light?
- 4069. Standard Free energy of hydrolysis of phosphoenolpyruvate (PEP)
- 4070. What is the actual size of a nucleotide?
- 4071. Why are prions in animal diets not destroyed by the digestive system?
- 4072. Enzyme kinetics; what happens at the peak of the Gibbs energy graph?
- 4073. Is global life expectancy normally distributed?
- 4074. What is the average volume of the hippocampus?
- 4075. Do spiders learn how to build webs?
- 4076. On average how many genes / alleles do people share?
- 4077. What's the difference between blood value units 'mE/l', 'mU/l', 'mIU/l' and 'mEq/l'?

- 4078. Neurons with thousands of connections: where are the extra connections coming from?
- 4079. ATP required for cell processes
- 4080. Why is an HIV infection considered "incurable"?
- 4081. How do proteins 'know' where to go?
- 4082. Does the renal vein have a greater glucose concentration than the renal artery?
- 4083. Is the 6th rib attached to 7th rib, and 7th rib to 8th?
- 4084. Why DMSO is used as a control?
- 4085. What's the difference between male and female?
- 4086. Why do some white blood cells have lobed nuclei?
- 4087. In SDS-PAGE, why are the sample buffer and running buffer different in concentration?
- 4088. Are there animal species that sense infrared light with their eyes?
- 4089. How did the huge dinosaurs cope with gravity and loads on bones, etc.?
- 4090. What percentage of fish are herbivorous vs. carnivorous?
- 4091. Spider Identification: Is this an Arizona Recluse?
- 4092. Are insects attracted to near infrared light?
- 4093. Action potential and sodium channels
- 4094. Why do specifically bananas go brown quicker in the fridge?
- 4095. Can vitamin B17 cure cancer?
- 4096. Structure of adenoids
- 4097. How can CI repressor both activate and repress \$P_{RM}\$ promoter found in \$ \lambda\$ phage?
- 4098. Why are people tired after surgery?
- 4099. What is (probably) the closest living relative of the trilobite?

- 4100. Does "Garbage Enzyme cleaner" contain cleaning enzymes?
- 4101. Molecular cause of cramps, spasms and strengthening in muscles? (incl. intro to muscle contraction)
- 4102. Hundreds of Red Spiders in Individual Webs