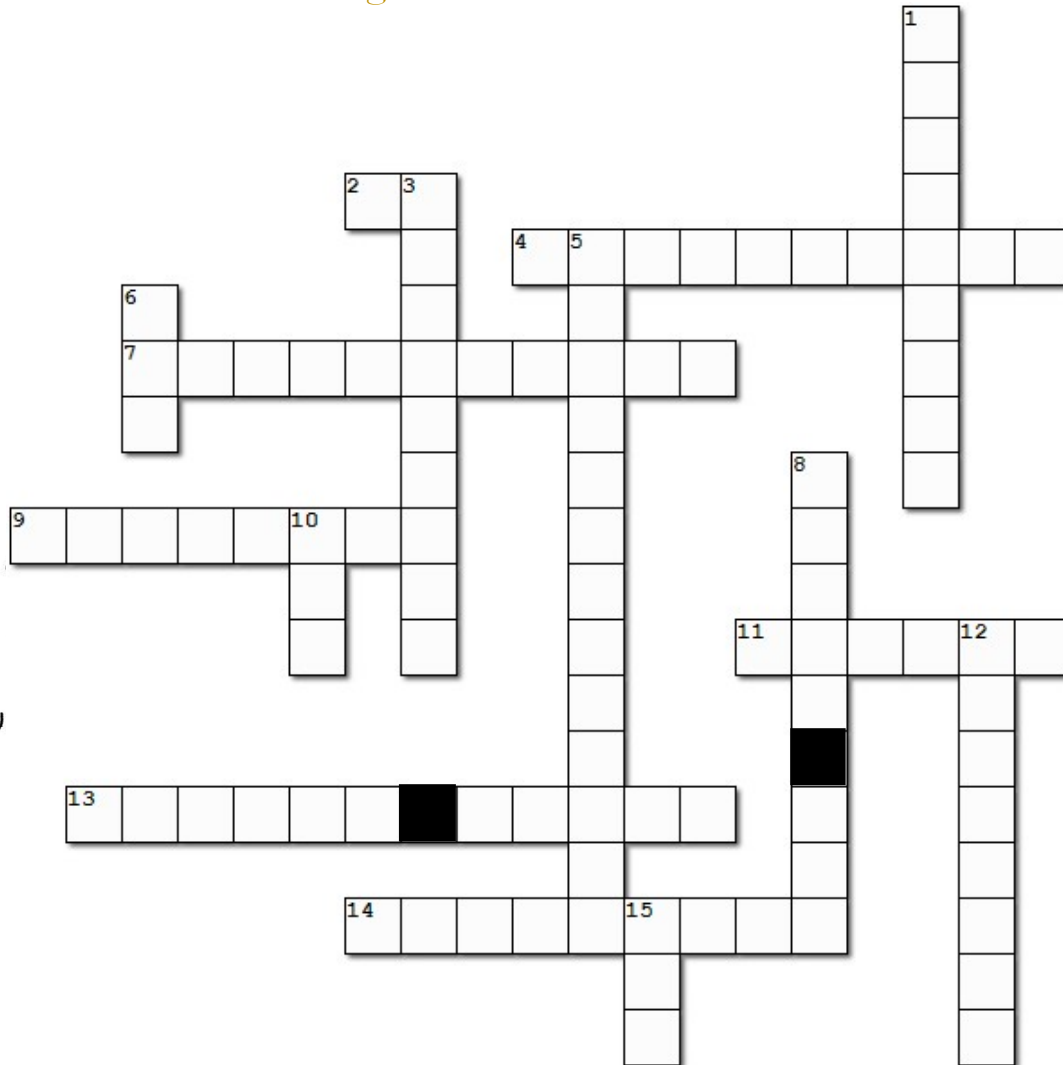


Equine Genetics Crossword

vgl.ucdavis.edu



Across

2. neurological condition found almost exclusively in Arabian horses that causes the death of neuros on the cerebellum of affected foals (acronym)
4. gene-carrying structures composed of DNA & protein
7. building blocks of DNA & RNA
9. disproportionate growth in Fresians with reduced bone length of limbs & ribs while the size of the head & length of the back are normal causes by a mutation in the β -1,4-Galactosyltransferase 7 gene
11. complete set of genes/all genetic material present in a cell/organism
13. the shape that 2 linear strand of DNA take when bonded together
14. a trait that is expressed only when a genotype is homozygous

Down

1. a set of observable characteristics of an individual resulting from interaction of its genotype with the environment
3. any chromosome that's not considered a sex chromosome or is not involved in sex determination
5. recessive condition characterized by excessive accumulation of fluid in the brain that results in severe cranial distension
6. double-helix molecule that contains instructions organisms need to develop, live, and reproduce (acronym)
8. a dilute iris color characterized by a yellow, amber, or bright orange color in Paso Fino horses
10. an autoimmune disease that causes a rapid onset of muscle atrophy & severe muscle damage at rest in Quarter Horses & related breeds (acronym)
12. heritable change in nucleotide sequences in a gene or chromosome
15. the second most common type of tumor in horses & most frequent tumor of the horse's eye; studied by VGL on Haflinger & Belgian horses (acronym)

KEY

Across

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|------------|------------------|---------------|-------------|
| 2. CA | 4. chromosome | 7. nucleotide | 9. dwarfism |
| 11. genome | 13. double helix | 14. recessive | |

Down

- | | | | |
|--------------|--------------|------------------|---------|
| 1. phenotype | 3. autosomal | 5. Hydrocephalus | 6. DNA |
| 8. Tiger Eye | 10. IMM | 12. mutation | 15. SCC |

