Across
2. neurological condition found almost exclusively in Arabian horses that causes the death of neurons 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 Friesians 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
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