

Dragon Genetics

— Independent Assortment and Genetic Linkage

Herencia both independent assortment and genetic linkage, including the ability to determine which combinations of alleles are possible and the laws governing their frequency. (10-16)

In this activity you will study the patterns of inheritance of multiple genes in (imaginary) dragons. These dragons have two pairs of homologous chromosomes in each cell. You will see that, since genes are carried on chromosomes, the patterns of inheritance are determined by the behavior of chromosomes during mitosis and fertilization.

The Law of Independent Assortment — Inheritance of Genes on Different Chromosomes

In this activity, we will only consider one gene on each chromosome. These genes are described in the following table.

	Dominant Alleles	Recessive Alleles
Chromosome 1	W = long wings	w = no wings
Chromosome 2	H = big horns	h = small horns

The mother dragon is heterozygous for the wing gene (Ww) and the horn gene (Hh). The father is homozygous recessive for the wing gene (ww) and the horn gene (hh). What phenotypic traits will each parent have? (If homozygous traits are the observable bodily characteristics.) Draw the appropriate characteristics for each parent.

Mother



Father



Review of Inheritance of Single Genes

Draw a Punnett Square to show the inheritance of the horn alleles for a mating between this mother and father.

On average, what fraction of the fully dragons will have big horns?

¹ Mendel's experiments used pea plants because they are easy to grow. A similar plant could be used because it would grow in a pot and produce many offspring, and because it has a few pairs of chromosomes. <http://www.ck12.org/section/Genetics%20of%20Peas/>

Genetic Linkage Dragon Answers

Carole Mortimer



Genetic Linkage Dragon Answers:

Teacher's Guide to Using the Next Generation Science Standards With Gifted and Advanced Learners Cheryll M. Adams, Alicia Cotabish, Debbie Dailey, 2021-09-23 A Teacher's Guide to Using the Next Generation Science Standards With Gifted and Advanced Learners provides teachers and administrators with practical examples of ways to build comprehensive coherent and rigorous science learning experiences for gifted and advanced students from kindergarten to high school. It provides an array of examples across the four domains of science: physical sciences, Earth and space sciences, life sciences, and engineering technology and applications of science. Each learning experience indicates the performance expectation addressed and includes a sequence of activities, implementation examples, connections to the CCSS Math and CCSS ELA, and formative assessments. Chapters on specific instructional and management strategies, assessment, and professional development suggestions for implementing the standards within the classroom will be helpful for both teachers and administrators.

Life's Vital Link Y. W. Loke, 2013-05-23 The development of the placenta was a pivotal event in evolution. Without it, we would still be laying eggs instead of giving birth to live offspring. It represents the critical link between the foetus and the mother, but its character is extraordinary; it is in effect a foreign tissue that invades the mother's body. Compared to many other animals, the human placenta represents a particularly aggressive body. But how is it managed and controlled? How did such an organ evolve in the first place? And why is it tolerated by the mother? Y. W. Loke explores the nature of the placenta and what it can tell us about evolution, development, and genetics.

The Answer to Nearly Everything Peter Franklin, 2012-02 The only information we have on Atlantis is from a very ancient Egyptian account that describes it as bigger than all their neighbours combined. Why is this fact ignored by most of the fanciful theories? From Atlantis to our current scientific predictions, the truth about so many things becomes clear and obvious only if all the facts are collected and examined, yet many people just select those that agree with their thinking. The resulting conflict between experience and belief, truth and distortion, or good and bad is only resolved when science, philosophy, and theology are harmonized and examined as aspects of one universal truth.

Sunshine in the Dragon's Heart Jaime Samms, 2018-12-04 When Sunny retires to the northern Ontario wilderness to mourn his parents' deaths, he's hoping the change of scenery will afford him some peace and quiet. His hopes are soon spectacularly dashed. In self-imposed exile, dragon Emile runs across the Fold between his dimension and Sunny's and right into Sunny's arms. Centuries out of touch with human culture, bright, beautiful Emile incinerates any hope Sunny had for an ordinary existence. With dryads and water sprites coming to life all around them, Sunny can't deny the magic Emile brings to his life or his heart. But that same magic leads the unrelenting dragon who would keep Emile captive right to them. To save his love, Sunny will have to reach deep and find some magic of his own.

Vladimir (Russian Dragon Heat 1) Carole Mortimer, 2020-11-27 The Russian Dragon series you've all been asking for. VLADIMIR Russian Dragon Heat 1 is the first book in the much-requested Russian Dragon Heat series. It has passion and

excitement with visits from several characters from my previous dragon shifter series *Dragon Hearts* At a thousand years old Vladimir is the eldest of the seven remaining dragon shifter Romanov brothers Having lived all those years with the hope of one day meeting his fated mate he can't believe it when he realises his mate is the female dragon hunter who tried to kill his brother Vaughn Not only can't Vladimir believe it he fights against accepting it Tanya holds all of the Romanov brothers responsible not only for the deaths of her parents ten years ago but because she and her brother were afterwards sent to one of the notorious Russian orphanages to survive as best they could After months and years of planning Tanya is devastated when her attempt to kill one of the fierce Romanov dragon shifter brothers is unsuccessful Instead she once again finds herself incarcerated against her will this time at the Romanovs winter palace as she waits to learn her fate Tanya knows nothing of a dragon shifter's fated mate but she certainly has no intention of ever becoming that to the arrogant and cold Vladimir Romanov

Be Ready to Answer Michael L. Gowens, 2011-07-01 A Christian apologetic for the person in the pew this volume aims to equip both the young and the more mature believer in defending the faith **Dragon's Heir** Glenn Parris, 2018-08-08 The Efilu archeologist Vit Na is a misfit among her crew En route to Fitu their planet of origin the Efilu research vessel ReQam's important jobs have been assigned to specialists scientists and soldiers Were it not for her intimate relationship with High Commander Tur her Synesprit she would not have been on this expedition at all The ship's complement arrives to a world they never expected a world no longer their own When the invincible ReQam is crippled by the new inhabitants Tur's crew is stranded thousands of light years from home As far as anyone knew all Fitu's abandoned indigenous life forms perished 65 million years ago along with The Keepers followers of the ancient mystic Dragon Due to her petite size for she is nearly as small as the biped mammals they contend with Vit Na is conscripted as an infiltrator and deployed among the hostile mammals who have evolved to resemble the Efilu It soon becomes clear that the vital resource for which Tur's seeks was intentionally tainted to draw the Efilu back of this strange world Vit Na finds herself uniquely prepared to serve as desperately needed advocate to the crafty mammals who filled that vacant Efilu niche and are now in jeopardy Who would have guessed that a daughter of noble house Kemit would be destined to defend vermin long believed extinct after the Efilu Exodus from a world now called Earth

Slaying the Dragon William L. White, 1998 The product of more than 20 years of research *Slaying the Dragon* is the remarkable story of America's personal and institutional responses to alcoholism and other addictions It is the story of mutual aid societies the Washingtonians the Blue Ribbon Reform Clubs the Ollapod Club the United Order of Ex Boozers the Jacoby Club Alcoholics Anonymous and Women for Sobriety It is a story of addiction treatment institutions from the inebriate asylums and the Keely Institutes to Hazelden and Parkside It is a story of evolving treatment interventions that range from water cures and mandatory sterilization to aversion therapies and methadone maintenance Author William White provides a sweeping and engaging history of one of America's most enduring problems and the profession that was born to respond to it publisher website *Bionomics in the Dragon Kingdom* Ugyen

Tshewang, Jane Gray Morrison, Michael Charles Tobias, 2018-11-13 This compact and elegant work equally fitting for both academic as well as the trade audiences provides a readily accessible and highly readable overview of Bhutan's unique opportunities and challenges all her prominent environmental legislation regulatory statutes ecological customs and practices both in historic and contemporary terms At the same time *Bionomics* places the ecological context including a section on animal rights in Bhutan within the nation's Buddhist spiritual and ethical setting Historic contextualization accents the book's rich accounting of every national park and scientific reserve as well as providing up to the minute climate change related hurdles for the country Merging the interdisciplinary sciences engineering and humanities data in a compelling up to date portrait of the country the authors have presented this dramatic compendium against the backdrop of an urgent global ecological time frame It thus becomes clear that the articulated stakes for Bhutan like her neighboring Himalayan and Indian sub continental countries China India Bangladesh and Myanmar are immense as the Anthropocene epoch unfolds affecting every living being across the planet Because Bhutan's two most rewarding revenue streams derive from the sale of hydro electric power and from tourism the complexities of modern pressures facing a nation that prides herself on maintaining traditional customs in what has been a uniquely isolated nation are acute

The Methuselah Gene Sal Destefano, 2000 In New Jersey's Barnegat Bay two boys stumble upon a lethal marine predator that possesses remarkable healing and life extension genes Dr Allen J Johnson a plant geneticist finds that this animal's mutation may save the life of his son who has an inoperable brain tumor But Dr Johnson must first confront a covert government agency determined to keep the life extending genes a secret as well as several ruthless men who will stop at nothing including murder to exploit the animal's mutations for their own selfish purposes

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