

CODOMINANCE WORKSHEET

CODOMINANCE WORKSHEET ARE ESSENTIAL EDUCATIONAL TOOLS USED TO TEACH STUDENTS ABOUT A FASCINATING GENETIC INHERITANCE PATTERN. THESE WORKSHEETS HELP CLARIFY THE CONCEPT OF CODOMINANCE, A FORM OF INHERITANCE WHERE BOTH ALLELES IN A HETEROZYGOUS INDIVIDUAL ARE FULLY EXPRESSED, RESULTING IN A PHENOTYPE THAT DISPLAYS BOTH TRAITS SIMULTANEOUSLY. AS UNDERSTANDING OF GENETICS DEEPENS, THE IMPORTANCE OF EFFECTIVE TEACHING MATERIALS LIKE CODOMINANCE WORKSHEETS BECOMES INCREASINGLY EVIDENT. THEY SERVE TO REINFORCE CORE PRINCIPLES, FACILITATE HANDS-ON LEARNING, AND PREPARE STUDENTS FOR MORE ADVANCED TOPICS IN BIOLOGY.

UNDERSTANDING CODOMINANCE: A FUNDAMENTAL GENETIC CONCEPT

WHAT IS CODOMINANCE?

CODOMINANCE IS A GENETIC PHENOMENON OBSERVED IN CERTAIN INHERITANCE PATTERNS WHERE NEITHER ALLELE IS DOMINANT OR RECESSIVE. INSTEAD, BOTH ALLELES IN A HETEROZYGOUS INDIVIDUAL ARE EXPRESSED EQUALLY AND DISTINCTLY. THIS RESULTS IN A PHENOTYPE THAT DISPLAYS CHARACTERISTICS OF BOTH INHERITED TRAITS SIMULTANEOUSLY.

FOR EXAMPLE, IN THE CASE OF BLOOD TYPE INHERITANCE, THE ABO BLOOD GROUP SYSTEM DEMONSTRATES CODOMINANCE:

- THE A ALLELE AND THE B ALLELE ARE CODOMINANT.
- WHEN A PERSON INHERITS BOTH ALLELES (A AND B), THEIR BLOOD TYPE IS AB, EXPRESSING TRAITS FROM BOTH ALLELES WITHOUT BLENDING.

DIFFERENCE BETWEEN CODOMINANCE AND OTHER INHERITANCE PATTERNS

TO FULLY GRASP CODOMINANCE, IT'S HELPFUL TO COMPARE IT WITH OTHER INHERITANCE PATTERNS:

- COMPLETE DOMINANCE: ONE ALLELE COMPLETELY MASKS THE EFFECT OF THE OTHER (E.G., PEA PLANT FLOWER COLOR).
 - INCOMPLETE DOMINANCE: THE HETEROZYGOTE HAS A BLENDING OF TRAITS, RESULTING IN AN INTERMEDIATE PHENOTYPE (E.G., SNAPDRAGON FLOWER COLORS).
 - CODOMINANCE: BOTH ALLELES ARE FULLY EXPRESSED, LEADING TO A PHENOTYPE THAT SHOWS BOTH TRAITS DISTINCTLY.
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KEY FEATURES OF A CODOMINANCE WORKSHEET

PURPOSE OF A CODOMINANCE WORKSHEET

A CODOMINANCE WORKSHEET IS DESIGNED TO:

- REINFORCE UNDERSTANDING OF THE CONCEPT THROUGH PRACTICE PROBLEMS.
- HELP STUDENTS ANALYZE GENETIC CROSSES INVOLVING CODOMINANT TRAITS.
- ENHANCE CRITICAL THINKING SKILLS RELATED TO INHERITANCE PATTERNS.
- PREPARE STUDENTS TO INTERPRET REAL-WORLD GENETIC DATA.

TYPICAL COMPONENTS OF A CODOMINANCE WORKSHEET

- DEFINITIONS AND EXPLANATIONS: CLARIFY TERMINOLOGY RELATED TO CODOMINANCE.
- GENOTYPE AND PHENOTYPE DIAGRAMS: VISUAL AIDS TO ILLUSTRATE INHERITANCE.

- PUNNETT SQUARE EXERCISES: PRACTICE PROBLEMS FOR PREDICTING OFFSPRING TRAITS.
- REAL-WORLD EXAMPLES: CASE STUDIES INVOLVING BLOOD TYPES, ANIMAL COAT PATTERNS, ETC.
- ANSWER KEYS AND EXPLANATIONS: TO FACILITATE SELF-ASSESSMENT AND UNDERSTANDING.

How to Use a Codominance Worksheet Effectively

STEP-BY-STEP APPROACH

1. REVIEW FOUNDATIONAL CONCEPTS: ENSURE STUDENTS UNDERSTAND BASIC MENDELIAN GENETICS.
2. INTRODUCE THE WORKSHEET: EXPLAIN OBJECTIVES AND KEY TERMS.
3. COMPLETE PRACTICE PROBLEMS: ENCOURAGE INDEPENDENT OR GROUP WORK.
4. DISCUSS ANSWERS: REVIEW SOLUTIONS COLLECTIVELY TO CLARIFY MISUNDERSTANDINGS.
5. APPLY KNOWLEDGE TO REAL-WORLD EXAMPLES: CONNECT THEORY TO OBSERVABLE TRAITS AND PHENOMENA.

TIPS FOR EDUCATORS

- USE VISUAL AIDS LIKE DIAGRAMS AND COLOR-CODED PUNNETT SQUARES.
- INCORPORATE INTERACTIVE ACTIVITIES, SUCH AS MODELING TRAITS WITH COLORED BEADS.
- PROVIDE ADDITIONAL RESOURCES FOR STUDENTS NEEDING EXTRA SUPPORT.
- ASSIGN HOMEWORK THAT INCLUDES CREATING THEIR OWN EXAMPLES OF CODOMINANCE.

SAMPLE PROBLEMS AND EXERCISES IN A CODOMINANCE WORKSHEET

EXAMPLE 1: BLOOD TYPE INHERITANCE

PROBLEM:

A PARENT HAS BLOOD TYPE AB, AND THE OTHER PARENT HAS BLOOD TYPE O. WHAT ARE THE POSSIBLE BLOOD TYPES OF THEIR CHILDREN?

SOLUTION:

USING A PUNNETT SQUARE:

- PARENT 1 (AB): ALLELES A AND B
- PARENT 2 (O): ALLELES O AND O

POSSIBLE OFFSPRING GENOTYPES:

- AO (BLOOD TYPE A)
- BO (BLOOD TYPE B)

ANSWER:

CHILDREN CAN HAVE BLOOD TYPES A OR B, BUT NOT AB OR O.

EXAMPLE 2: ANIMAL COAT PATTERNS

PROBLEM:

IN SOME CATTLE, THE COAT COLOR IS EITHER RED OR WHITE, AND WHEN A RED COW MATES WITH A WHITE COW, THEIR

HETEROZYGOUS OFFSPRING DISPLAY BOTH RED AND WHITE PATCHES EQUALLY. WHAT DOES THIS INDICATE ABOUT THEIR INHERITANCE PATTERN?

SOLUTION:

THIS EXEMPLIFIES CODOMINANCE, WHERE BOTH ALLELES (RED AND WHITE) ARE EXPRESSED IN THE HETEROZYGOUS OFFSPRING, RESULTING IN A SPOTTED COAT.

EXERCISE:

DRAW A PUNNETT SQUARE ILLUSTRATING THIS CROSS AND PREDICT THE GENOTYPIC AND PHENOTYPIC RATIOS.

BENEFITS OF USING A CODOMINANCE WORKSHEET IN EDUCATION

- **ENHANCES COMPREHENSION:** STUDENTS BETTER GRASP COMPLEX INHERITANCE PATTERNS THROUGH ACTIVE PARTICIPATION.
- **DEVELOPS CRITICAL THINKING:** ANALYZING GENETIC CROSSES PROMOTES LOGICAL REASONING SKILLS.
- **PROVIDES VISUAL LEARNING:** DIAGRAMS AND PUNNETT SQUARES CLARIFY ABSTRACT CONCEPTS.
- **PREPARES FOR ADVANCED TOPICS:** SOLID UNDERSTANDING OF CODOMINANCE LAYS THE FOUNDATION FOR STUDYING INCOMPLETE DOMINANCE, MULTIPLE ALLELES, AND POLYGENIC TRAITS.
- **ENGAGES STUDENTS:** INTERACTIVE WORKSHEETS INCREASE MOTIVATION AND INTEREST IN GENETICS.

CREATING YOUR OWN CODOMINANCE WORKSHEET

FOR EDUCATORS INTERESTED IN DESIGNING PERSONALIZED WORKSHEETS, CONSIDER INCLUDING THE FOLLOWING ELEMENTS:

- CLEAR DEFINITIONS OF KEY TERMS.
- STEP-BY-STEP INSTRUCTIONS FOR SOLVING GENETIC PROBLEMS.
- DIVERSE PRACTICE QUESTIONS COVERING DIFFERENT TRAITS AND SCENARIOS.
- VISUAL AIDS LIKE DIAGRAMS AND IMAGES.
- REAL-LIFE CASE STUDIES TO CONNECT THEORY WITH OBSERVABLE TRAITS.

EMPLOYING VARIED QUESTION FORMATS—MULTIPLE CHOICE, FILL-IN-THE-BLANK, MATCHING, AND OPEN-ENDED PROBLEMS—CAN CATER TO DIFFERENT LEARNING STYLES AND DEEPEN UNDERSTANDING.

CONCLUSION: THE IMPORTANCE OF CODOMINANCE WORKSHEETS IN GENETICS EDUCATION

INCORPORATING A WELL-DESIGNED CODOMINANCE WORKSHEET INTO BIOLOGY LESSONS IS CRITICAL FOR EFFECTIVELY TEACHING THIS UNIQUE INHERITANCE PATTERN. THESE WORKSHEETS SERVE AS PRACTICAL TOOLS THAT TRANSFORM THEORETICAL CONCEPTS INTO ENGAGING, UNDERSTANDABLE ACTIVITIES. THEY HELP STUDENTS VISUALIZE GENETIC CROSSES, INTERPRET REAL-WORLD EXAMPLES, AND DEVELOP A COMPREHENSIVE UNDERSTANDING OF HOW BOTH ALLELES CAN BE EXPRESSED EQUALLY IN HETEROZYGOTES.

AS GENETICS CONTINUES TO BE A CORNERSTONE OF BIOLOGICAL SCIENCES, MASTERING CONCEPTS LIKE CODOMINANCE IS VITAL FOR STUDENTS PURSUING CAREERS IN MEDICINE, VETERINARY SCIENCE, AGRICULTURE, AND RESEARCH. BY LEVERAGING EDUCATIONAL RESOURCES SUCH AS CODOMINANCE WORKSHEETS, EDUCATORS CAN FOSTER CURIOSITY, ENHANCE COMPREHENSION, AND INSPIRE THE NEXT GENERATION OF SCIENTISTS AND BIOLOGISTS.

KEYWORDS FOR SEO OPTIMIZATION:

- CODOMINANCE WORKSHEET
- GENETICS WORKSHEETS
- INHERITANCE PATTERNS
- PUNNETT SQUARES
- CODOMINANT TRAITS
- BLOOD TYPE INHERITANCE
- TEACHING GENETICS
- BIOLOGY PRACTICE PROBLEMS
- GENETICS EDUCATION RESOURCES
- UNDERSTANDING CODOMINANCE

FREQUENTLY ASKED QUESTIONS

WHAT IS CODOMINANCE IN GENETICS?

CODOMINANCE IS A GENETIC PATTERN WHERE BOTH ALLELES IN A HETEROZYGOUS ORGANISM ARE FULLY EXPRESSED, RESULTING IN A PHENOTYPE THAT DISPLAYS BOTH TRAITS SIMULTANEOUSLY.

HOW DOES A CODOMINANCE WORKSHEET HELP STUDENTS UNDERSTAND INHERITANCE PATTERNS?

A CODOMINANCE WORKSHEET PROVIDES EXERCISES AND DIAGRAMS THAT ILLUSTRATE HOW BOTH ALLELES ARE EXPRESSED IN HETEROZYGOTES, HELPING STUDENTS VISUALIZE AND DIFFERENTIATE CODOMINANCE FROM OTHER INHERITANCE MODES LIKE DOMINANCE AND INCOMPLETE DOMINANCE.

CAN YOU GIVE AN EXAMPLE OF CODOMINANCE IN REAL-LIFE ORGANISMS?

YES, AN EXAMPLE IS THE ABO BLOOD GROUP SYSTEM IN HUMANS, WHERE BOTH A AND B ALLELES ARE EXPRESSED IN INDIVIDUALS WITH AB BLOOD TYPE, DISPLAYING BOTH ANTIGEN TYPES ON RED BLOOD CELLS.

WHAT ARE COMMON QUESTIONS INCLUDED IN A CODOMINANCE WORKSHEET?

COMMON QUESTIONS INCLUDE IDENTIFYING GENOTYPES AND PHENOTYPES OF OFFSPRING, PREDICTING RATIOS IN PUNNETT SQUARES, AND EXPLAINING THE DIFFERENCE BETWEEN CODOMINANCE AND INCOMPLETE DOMINANCE.

WHY IS UNDERSTANDING CODOMINANCE IMPORTANT IN GENETICS?

UNDERSTANDING CODOMINANCE IS IMPORTANT BECAUSE IT EXPLAINS HOW MULTIPLE ALLELES CAN INFLUENCE PHENOTYPES SIMULTANEOUSLY, WHICH IS ESSENTIAL FOR ACCURATE GENETIC PREDICTION AND UNDERSTANDING GENETIC DIVERSITY.

HOW CAN A TEACHER USE A CODOMINANCE WORKSHEET TO ENHANCE STUDENT LEARNING?

A TEACHER CAN USE THE WORKSHEET TO FACILITATE HANDS-ON PRACTICE WITH PUNNETT SQUARES, ENCOURAGE CRITICAL THINKING ABOUT INHERITANCE PATTERNS, AND REINFORCE CONCEPTUAL UNDERSTANDING THROUGH REAL-WORLD EXAMPLES AND

ADDITIONAL RESOURCES

CODOMINANCE WORKSHEET IS AN ESSENTIAL EDUCATIONAL TOOL DESIGNED TO HELP STUDENTS GRASP THE COMPLEX CONCEPTS OF GENETIC INHERITANCE, SPECIFICALLY THE PHENOMENON OF CODOMINANCE. AS A FUNDAMENTAL TOPIC IN GENETICS, UNDERSTANDING CODOMINANCE ENABLES LEARNERS TO APPRECIATE HOW DIFFERENT ALLELES CAN INFLUENCE PHENOTYPES IN UNIQUE WAYS, BEYOND SIMPLE DOMINANT-RECESSIVE RELATIONSHIPS. A WELL-STRUCTURED WORKSHEET ON THIS SUBJECT NOT ONLY CLARIFIES THEORETICAL PRINCIPLES BUT ALSO PROVIDES PRACTICAL EXERCISES THAT REINFORCE LEARNING THROUGH VISUALIZATION AND PROBLEM-SOLVING.

UNDERSTANDING THE CONCEPT OF CODOMINANCE

DEFINITION AND EXPLANATION

AT ITS CORE, CODOMINANCE DESCRIBES A GENETIC SCENARIO WHERE TWO ALLELES AT A SPECIFIC GENE LOCUS ARE BOTH FULLY EXPRESSED IN A HETEROZYGOUS INDIVIDUAL. UNLIKE COMPLETE DOMINANCE, WHERE ONE ALLELE MASKS THE EFFECT OF THE OTHER, OR INCOMPLETE DOMINANCE, WHERE BLENDING OCCURS, CODOMINANCE RESULTS IN A PHENOTYPE THAT SIMULTANEOUSLY EXHIBITS TRAITS FROM BOTH ALLELES.

FOR EXAMPLE, IN THE CASE OF CERTAIN BLOOD TYPES, THE A AND B ALLELES ARE CODOMINANT. AN INDIVIDUAL WITH GENOTYPE AB EXPRESSES BOTH A AND B ANTIGENS ON THEIR RED BLOOD CELLS, LEADING TO THE AB BLOOD TYPE. THIS CLEAR EXPRESSION OF BOTH ALLELES MAKES CODOMINANCE A FASCINATING AND VISUALLY DEMONSTRABLE CONCEPT, PERFECT FOR EDUCATIONAL WORKSHEETS.

CHARACTERISTICS OF CODOMINANCE

- BOTH ALLELES ARE EXPRESSED EQUALLY IN HETEROZYGOTES.
- THE PHENOTYPE DISPLAYS TRAITS FROM BOTH ALLELES SIMULTANEOUSLY.
- IT DIFFERS FROM INCOMPLETE DOMINANCE, WHERE INTERMEDIATE TRAITS ARE OBSERVED.
- IT IS COMMON IN VARIOUS BIOLOGICAL SYSTEMS, SUCH AS BLOOD TYPES, CERTAIN FLOWER COLORS, AND COAT PATTERNS IN ANIMALS.

FEATURES OF A GOOD CODOMINANCE WORKSHEET

CREATING AN EFFECTIVE CODOMINANCE WORKSHEET INVOLVES SEVERAL FEATURES THAT FACILITATE UNDERSTANDING AND ENGAGEMENT:

- CLEAR DEFINITIONS AND EXPLANATIONS: THE WORKSHEET SHOULD START WITH CONCISE EXPLANATIONS OF KEY TERMS LIKE DOMINANT, RECESSIVE, HETEROZYGOUS, HOMOZYGOUS, AND CODOMINANCE ITSELF.
- VISUAL AIDS AND DIAGRAMS: DIAGRAMS ILLUSTRATING PUNNETT SQUARES, PHENOTYPIC RATIOS, AND GENOTYPIC COMBINATIONS HELP STUDENTS VISUALIZE HOW CODOMINANCE MANIFESTS.
- REAL-LIFE EXAMPLES: INCLUDING EXAMPLES LIKE BLOOD TYPES OR FLOWER COLOR VARIATIONS MAKES THE CONCEPT RELATABLE AND CONCRETE.
- PRACTICE PROBLEMS: A VARIETY OF EXERCISES, FROM SIMPLE PUNNETT SQUARE CALCULATIONS TO MORE COMPLEX INHERITANCE PATTERNS, REINFORCE LEARNING.
- ANSWER KEYS AND EXPLANATIONS: PROVIDING SOLUTIONS HELPS STUDENTS UNDERSTAND MISTAKES AND GRASP THE REASONING BEHIND THE ANSWERS.
- INTERACTIVE ELEMENTS: SOME WORKSHEETS INCORPORATE MATCHING ACTIVITIES, FILL-IN-THE-BLANKS, OR DRAWING EXERCISES TO FOSTER ACTIVE PARTICIPATION.

BENEFITS OF USING A CODOMINANCE WORKSHEET

UTILIZING A DEDICATED WORKSHEET FOR CODOMINANCE OFFERS SEVERAL EDUCATIONAL ADVANTAGES:

- ENHANCED COMPREHENSION: BREAKING DOWN COMPLEX CONCEPTS INTO MANAGEABLE SECTIONS IMPROVES UNDERSTANDING.
- VISUAL LEARNING SUPPORT: DIAGRAMS AND CHARTS CATER TO VISUAL LEARNERS.
- SKILL DEVELOPMENT: PRACTICE QUESTIONS DEVELOP CRITICAL THINKING AND PROBLEM-SOLVING ABILITIES.
- ASSESSMENT TOOL: TEACHERS CAN GAUGE STUDENT GRASP OF THE TOPIC THROUGH WORKSHEET PERFORMANCE.
- PREPARATION FOR ADVANCED TOPICS: MASTERY OF CODOMINANCE LAYS A FOUNDATION FOR UNDERSTANDING MORE COMPLEX GENETICS CONCEPTS LIKE MULTIPLE ALLELES AND POLYGENIC TRAITS.

COMMON TYPES OF ACTIVITIES IN A CODOMINANCE WORKSHEET

1. PUNNETT SQUARE EXERCISES

STUDENTS ARE ASKED TO SET UP AND INTERPRET PUNNETT SQUARES INVOLVING HETEROZYGOUS COMBINATIONS EXHIBITING CODOMINANCE. FOR EXAMPLE, CROSSING A WHITE COW (WW) WITH A RED COW (RR) TO PRODUCE ROAN (RW) OFFSPRING DEMONSTRATES THE CONCEPT VIVIDLY.

2. PHENOTYPIC AND GENOTYPIC RATIOS

EXERCISES INVOLVE CALCULATING EXPECTED RATIOS IN OFFSPRING, HELPING STUDENTS PREDICT OUTCOMES BASED ON PARENTAL GENOTYPES.

3. DIAGRAM LABELING

STUDENTS MIGHT BE TASKED WITH LABELING DIAGRAM THAT SHOW EXPRESSION OF BOTH ALLELES IN A HETEROZYGOTE, REINFORCING VISUAL UNDERSTANDING.

4. REAL-WORLD SCENARIO ANALYSIS

CASE STUDIES OR SCENARIOS INVOLVING BLOOD TYPES OR OTHER TRAITS HELP STUDENTS APPLY THEIR KNOWLEDGE CONTEXTUALLY.

5. CRITICAL THINKING QUESTIONS

OPEN-ENDED QUESTIONS CHALLENGE STUDENTS TO EXPLAIN WHY CERTAIN TRAITS ARE EXPRESSED AS THEY ARE, FOSTERING DEEPER CONCEPTUAL UNDERSTANDING.

LIMITATIONS AND CHALLENGES OF A CODOMINANCE WORKSHEET

WHILE WORKSHEETS ARE VALUABLE EDUCATIONAL TOOLS, THEY ALSO HAVE LIMITATIONS:

- OVERSIMPLIFICATION: WORKSHEETS MAY NOT CAPTURE THE FULL COMPLEXITY OF GENETIC INTERACTIONS IN VIVO.
- LIMITED ENGAGEMENT: STATIC WORKSHEETS CAN SOMETIMES LEAD TO PASSIVE LEARNING IF NOT SUPPLEMENTED WITH DISCUSSIONS OR INTERACTIVE ACTIVITIES.
- POTENTIAL FOR MISINTERPRETATION: WITHOUT PROPER GUIDANCE, STUDENTS MIGHT CONFUSE CODOMINANCE WITH INCOMPLETE DOMINANCE OR OTHER INHERITANCE PATTERNS.

- ACCESSIBILITY ISSUES: NOT ALL STUDENTS LEARN BEST FROM WRITTEN EXERCISES; DIVERSE LEARNING STYLES REQUIRE VARIED TEACHING METHODS.

TIPS FOR EDUCATORS USING A CODOMINANCE WORKSHEET

- COMBINE WITH PRACTICAL DEMONSTRATIONS: USE ACTUAL BLOOD TYPING KITS OR MODELS TO DEMONSTRATE CODOMINANCE IN REAL ORGANISMS.
- ENCOURAGE GROUP WORK: COLLABORATIVE PROBLEM-SOLVING ENHANCES UNDERSTANDING AND COMMUNICATION.
- USE TECHNOLOGY: INTERACTIVE DIGITAL WORKSHEETS OR SIMULATIONS CAN MAKE LEARNING MORE ENGAGING.
- PROVIDE CONTEXTUAL EXAMPLES: RELATE THE CONCEPT TO MEDICAL OR AGRICULTURAL CONTEXTS TO UNDERScore ITS RELEVANCE.
- ASSESS AND FEEDBACK: REVIEW COMPLETED WORKSHEETS CAREFULLY AND PROVIDE CONSTRUCTIVE FEEDBACK.

CONCLUSION

A CODOMINANCE WORKSHEET IS A POWERFUL EDUCATIONAL RESOURCE THAT SIMPLIFIES THE COMPLEX GENETIC PHENOMENON OF CODOMINANCE, MAKING IT ACCESSIBLE AND UNDERSTANDABLE FOR LEARNERS AT VARIOUS LEVELS. BY COMBINING VISUAL AIDS, PRACTICAL EXERCISES, AND REAL-WORLD EXAMPLES, SUCH WORKSHEETS ENHANCE COMPREHENSION, FOSTER CRITICAL THINKING, AND PREPARE STUDENTS FOR MORE ADVANCED GENETIC CONCEPTS. WHILE THEY ARE MOST EFFECTIVE WHEN USED AS PART OF A COMPREHENSIVE TEACHING STRATEGY THAT INCLUDES DISCUSSION AND HANDS-ON ACTIVITIES, WELL-DESIGNED WORKSHEETS REMAIN A CORNERSTONE FOR TEACHING INHERITANCE PATTERNS. EDUCATORS AND STUDENTS ALIKE BENEFIT FROM THEIR STRUCTURED APPROACH, CLARITY, AND FOCUS ON KEY LEARNING OUTCOMES, ULTIMATELY ENRICHING THE UNDERSTANDING OF HOW GENETIC DIVERSITY MANIFESTS IN LIVING ORGANISMS.

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