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Genetics Mnemonics

GENETICS

MNEMONICS

DNA: Z vs. B form: which is inactive
ZZZZ is sleeping (inactive). B form is therefore active DNA.

Nucleotides: purines vs. pyrimidines
Guardian Angels are Pure, with two Wings: G and A are Purines, with two Rings.

Nucleotides: purines
AGUA PURa: Adenine and GUAnine are PURines.
· **Agua pura** is spanish for **pure water**.

Hurler Syndrome features HURLER'S:
Hepatospenomegaly
Ugly facies
Recessive (AR inheritance)
L-iduronidase deficiency (alpha)
Eyes clouded
Retarded Short/
Stubby fingers

Nucleotides: which are purines

Pure Silver:

· Chemical formula of Pure silver is Ag. Therefore, Purines are Adenine and Guanine.

Down syndrome features: complete

My CHILD HAS PROBLEM!:

Congenital heart disease/ Cataracts

Hypotonia / Hypothyroidism

Incure 5th finger/ Increased gap between 1st and 2nd toe

Leukemia risk x2/ Lung problem

Duodenal atresia / Delayed development

Hirshsprung's disease / Hearing loss

Alzheimer's disease / Alantoaxial instability

Squint/ Short neck

Protruding tongue/ Palm crease

Round face/ Rolling eye (nystagmus)

Occiput flat/ Oblique eye fissure

Brushfield spot/ Brachycephaly

Low nasal bridge/ Language problem

Epicanthic fold/ Ear folded

Mental retardation/ Myoclonus

Blots: function of Southern vs. Northern vs. Western

SNOW DROP:

· Match up the 1st word letter with 2nd word letter:

Southern=DNA

Northern=RNA

Western=Protein

· The 0's in snow drop are zeros, since there is no Eastern blot.

Down syndrome pathology DOWN:

Decreased alpha-fetoprotein and unconjugated estriol (maternal)

One extra chromosome twenty-one

Women of advanced age

Nondisjunction during maternal meiosis

Pyrimidines nucleotides

CUT the PY (cut the pie):

Cytosine Uracil Thiamine are the PYrimidines

DiGeorge/ Velocardiofacial syndrome: features CATCH 22: Cardiac abnormalities

Abnormal facies

Thymic aplasia

Cleft palate

Hypocalcemia

22q11 deletion

Marfan syndrome features MARFAN:

Mitral valve prolapse

Aortic Aneurysm

Retinal detachment

Fibrillin

Arachnodactyly

Negative Nitroprusside test (differentiates from homocystinuria)

Cell cycle stages

Go Sally Go! Make Children!:

G1 phase (Growth phase 1)

S phase (DNA Synthesis)

G2 phase (Growth phase 2)

M phase (Mitosis)

C phase (Cytokinesis)

Cri-du-chat syndrome:

chromosomal deletion causing it is 5p(-)

What's another name for a cat that's five letters long and starts with a P? (Answer: pussy).

Why is the cat crying? Missing its P.

APKD: genetics

ADult Polycystic Kidney Disease is Autosomal Dominant

· Also, **Polycystic kidney** has 16 letters and is due to a defect on chromosome 16.

Hardy-Weinberg equilibrium: causes for deviations from it

Magc

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Nucleotides: class having the single ring

Pyrimadines are CUT from purines

· Pyrimidines are: Cytosine Uracil Thiamine They are cut from purines so the pyrimadines must be smaller (one ring).

Codons: nonsense mutation

Stop talking nonsense!:

Nonsense mutation causes premature stop.

Tumor suppressor vs. proto-onogene mutations:

recessive vs. dominant

Recess Suppress:

Tumor suppressor mutations are recessive. Proto-oncogenes are opposite (dominant).

Pedigree symbols: gender and affected

Gender: The cIRcle is a gIRl [so boys are squares].

Affected: Black plague was a disease, so black-filled symbol means an affected/diseased person [so non-filled-in is unaffected].

Tay Sach's features SACHS:

Spot in macula
 Ashkenazic Jews
 CNS degeneration
 Hex A deficiency
 Storage disease
 · Extra details with TAY:

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Young death (<4 yrs)

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Chromosome 15 diseases
 Chromosome 15 has its own MAP:
 Marfan syndrome
 Angelman syndrome
 Prader-Willi syndrome

Bartter syndrome: inheritance
 BARTter syndrome is autosomal recessive (AR).

Nucleotides: double vs. triple bonded basepairs
TU bonds (two bonds):
 T-A and U-A have Two bonds. G-C therefore has the three bonds.

Imprinting diseases: Prader-Willi and Angelman
Pray to an Angel:
 Prader-Willi and Angelman are the 2 classic imprinting diseases. · Which disease results, depends on whether 15q deletion is maternal or paternal. Keep them straight by: Paternal is Prader-Willi.

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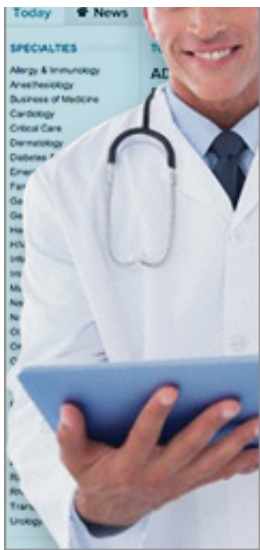
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