

Taste-Bitter

Wednesday, August 22, 2012

9:09 AM

6-n-Propyl Thio Urael

(PTU)

(PROP)

Don't Swallow

put it on front end

front end

no taste, bitter, extremely bitter

then wash out with water

Srijit	Super Taster	21	Saumya, Diksha, Biplob
Saumya	Taster	71	Biplob, Diksha
Biplob	Super Taster	48	Saumya, Diksha
Diksha	Non Taster	49	Biplob, Saumya
Shiven	Non Taster	30	Akshey
Ritu	Taster	33	Prashansa, Saumya
Jopaul	Taster	32	Akhil Rag
Prashansa	Non taster	32	Ritu, Jopaul
Abhishek	Non taster	32	Bhati
Abhinav	Non taster	35	Saumya
Love	Super Taster	32	Abhinav
Akhil Rag	Taster	35	Jopaul
Bhati	Non taster	31	Abhishek
Athira J	Taster	35	Athira N, Amrita
Garima	Taster	35	Neha
Athira N	Taster	25	Athira J, Amrita
Neha	Non taster	47	Garima
Deepanshu	Non taster	34	Akshey
Akhil F	Taster	30	Abhinav
Joy	Non taster	35	Abhinav
Vivek	Non taster	31	Man behind the Mirror
Akshey	Non taster	24	Shiven
Atul	Non taster	16	Vivek (6 times)
Amritha	Taster	17	Athira J

Take a paper,
cut out outside the 1cm square

then cut the inner square

Find the density

Food coloring, blue color

Take a toothpick

take hind end

dip it,

put it on your tongue, paint it

its too light, add some

if its too dark,

Use a different toothpick

In the light, because counts can go completely wrong

Count the darker dots

Shaded is taster

non shaded is non taster

Box is male

Circle female

Both children are males

Order means 1st and 2nd... and so on from the left

next generation

Age dependence

Environment Changes anyway Situation, pointmass on perfectly frictionless surface

Simplest case, the whole thing is controlled by a single locus

Temporarily numb

Suggestive Evidence, Tt, TT, tt

2 different version of alleles

Mundelein genetics

80% variation in the phenotype, can be explained by one locus

one gene on 7th chromosome, TSA2R38

codes for 1002AA

95% have either PAV or AVI variants (amino acids, at 49, at 262, at 296)

G protein, Receptor

Change the binding site

therefore give a better sensation

PAV/PAV => Super Tasters [can become non taster if something goes wrong..]

PAV/AVI => Taster

AVI/AVI => Non Taster [can become tasters..]

78 years ago, in 1930s, workin in a lab, two scientists, tranfer powders

some escaped

one of them is its very bitter,

not bitter the other said

story started from there

toxicity

story hasn't ended

latest paper about this was published 6 months

number of taste buds, seems to be true and not true for some

<no. is not variable (changes over years)

greater proportion of tasters

Range of sensitivity,

ug taste bitter

10 ug taste bitter

numbers distributions etc

receptors themselves are variable

no protein is exactly the same

Poisonous

Score, children are more sensitive, susceptible,

relatives of humans, chimpanzee and gorilla

Human lineage

Probably taste range increases

>why not monkeys

humans became adventurous, (Risk is important! :))

Phylogentica Inertia

Massive Canines

Omni Vores

Chimpanzees go hunting

Gorillas hunt

Pure vegetables weren't available