

## **IOHS GENETICS ACTIVITY *Finding Your Genetic Match***

(You can type directly on this sheet.)

### ***Introduction:***

There are numerous traits in humans, but some traits occur more frequently than others. Between 70-90% of the human population have free-hanging earlobes, can roll their tongue, are right-handed, and can taste a chemical called PTC. These traits are called high frequency traits.

### ***Objective:***

Determine the presence of certain high frequency traits in yourself and 6 other friends or family members.













### ***Procedure:***

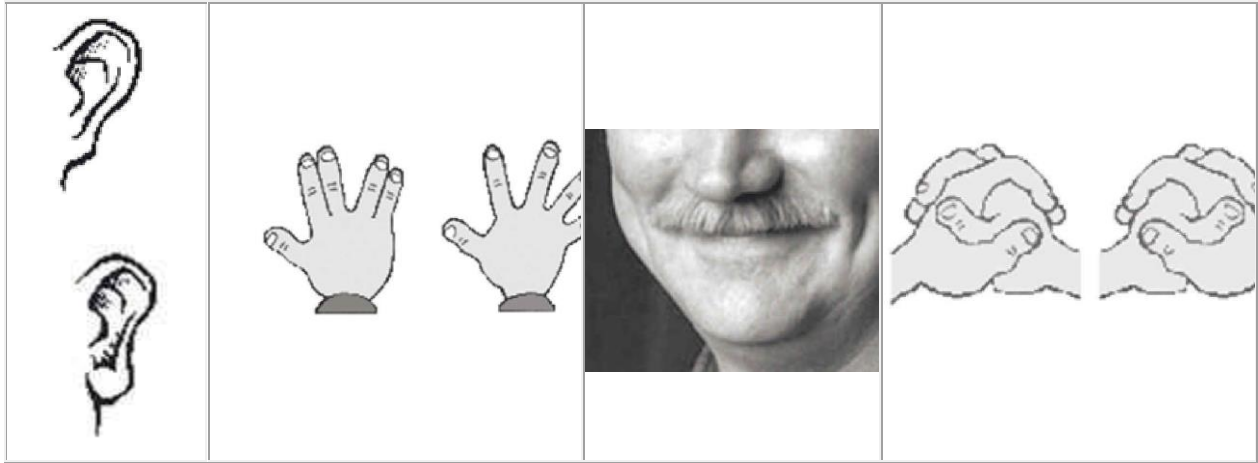
1. Identify which of the following 10 human traits you have by placing a check mark beside that trait.
2. Identify which of the following 10 human traits 6 other people have by placing a check mark beside that trait. (Check off each trait for each of the six people)
3. Compare the traits you have with that of the others and share your findings.

## **Human Trait Inventory**

<b>TRAITS</b>	<b>SELF</b>	<b>PERSON 2</b>	<b>PERSON 3</b>	<b>PERSON 4</b>	<b>PERSON 5</b>	<b>PERSON 6</b>
Tongue Roller						
Non Tongue Roller						
Attached Earlobes						
Unattached Earlobes						
Dimples						
No Dimples						
Right-handed						
Left-handed						
Widow's Peak						

Straight Hairline						
Left Thumb on top when Hands Crossed						
Right Thumb on top when Hands Crossed						
Hair on mid-digit of hand						
No hair on mid-digit of hand						
Bent little finger						
Straight little finger						
Second toe longer than big toe						
Second toe not longer than big toe						
Vulcan (Fingers spread 2 by 2)						
Not Vulcan						
TOTALS						

Tongue Roller	Non Roller	Dimples	No Dimples
			
Attached Earlobes	Unattached Earlobes	Widow's Peak	Straight Hairline
			
Longer Second Toe	Short Second Toe	Bent Little finger	Hitchhiker's Thumb
			
Attached Ear lobes (left) Unattached ear Lobes (right)	"VULCAN" or No "VULCAN"	Dimples	Right/Left Thumb on top



2.) Type a description of your findings. What did you find unusual, interesting, expected, unexpected...?

Blank area for typing a description of findings.