**Environmental Influences PSA Activity**

(Topic 8: Environmental Influence)

**Purpose:** Explain the cause-and-effect relationship between environmental factors and expression of a particular genetic trait for the following diseases: lung/mouth cancer, skin cancer, diabetes, PKU, and heart disease.

**Directions:** Using any relevant Internet resources (a list of starting places has been provided), create an infographic (digital poster), thinglink, or video that serves as a public service announcement. You must work in your assigned group. The announcement should include the following information:

* How the disease has been linked to genetics
* How the disease has been linked to environmental factors
* How people can prevent and/or treat the disease through environmental/social factors
* Statistics about the diseases prevalence and prognosis (how many people are affected each year, how many die, etc.)
* Resources that people with the disease could use to find information/help (Ex: American Cancer Society, Cancer Centers of America, etc)
* Bibliography of informational sources used (either linked to the infographic/thinglink or as part of video credits)

Possible Web Resources:

[www.thinglink.com](http://www.thinglink.com) (Thinglink creation)

<https://infogr.am/> (Inforgraphic maker)

<http://piktochart.com/> (Infographic maker)

PKU:

<http://www.indiana.edu/~p1013447/dictionary/interact.htm>

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2705125/>

Lung/Mouth Cancer:

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3875302/>

<http://www.healthline.com/health/lung-cancer-risk-factors#Overview1>

Skin Cancer:

<http://www.clinuvel.com/en/skin-science/skin-sun/skin-cancer/causes-of-skin-cancer>

<http://www.ncbi.nlm.nih.gov/pubmed/10709358>

Diabetes:

<http://www.diabetes.org/diabetes-basics/genetics-of-diabetes.html>

<http://www.who.int/genomics/about/Diabetis-fin.pdf>

Heart Disease:

<http://atvb.ahajournals.org/content/23/7/1190.full>

<http://www.who.int/genomics/public/geneticdiseases/en/index3.html>