Side effects of chemotherapy experienced differ between individuals. This is due to the difference in the genetic code that each person has. Hematoxicity is a side effect that destroys red blood cells that can kill the patient. To investigate how the genetic makeup of a person undergoing chemotherapy influences the susceptibility to hematoxicity, we designed a method to understand how the gene interacts with the drugs to produce such a deadly response. By looking at experiments done on mice who were exposed to three chemotherapy drugs, it was found that multiple genes control how hematoxicity is induced and that each drug influences a different gene. This investigation is therefore important in understanding which genes increases susceptibility to hematoxicity and so this will help develop better drugs and treatment methods to treat cancer.

Themes:
Check (highlight) the most applicable theme according to the abstract.

| Innovation and Technology | Health and Wellness | Culture and Society | Sustainability and Conservation |

Comments:

Please cite the statement, “[Hematoxicity] is due to the differences in the genetic code that each person has.” Include more background information. Consider including limitations of this study to understand hematoxicity from chemotherapy treatment. Consider including more information on the method.