

CALIFORNIA STATE SCIENCE FAIR 2017 PROJECT SUMMARY

Name(s)		Project Number
Li F. Meinhold		J2212
roject Title The Mutagenic B	Effects of Gentian Violet	
biastivas/Cools	Abstract	
The objective of this study violet on fruit flies. Iethods/Materials This study used commerci scale, magnifying lens, mi and the mutation rate was	was to determine the mutagenic effect ally available dye, wingless fruit flies a croscope. Flies were divided and expose measured after each generation for thre	as of a common type of dye, gentian and culture kit from pet supply industry, sed to different concentrations of dye, be generations.
Cesults There was measurable mu times that of the control. Conclusions/Discussion This study shows that azo these dyes suggests that fu	tagenic effect that varied with concentration of the state of the stat	ations that was up to two and a half uit flies. This fact, and the prevalence of ial is warranted.
ummary Statement This study demonstrated t	hat gentian violet dye causes mutations	in fruit flies.
Ielp Received I designed this experiment	t myself, attempting to recreate the resu	lts of "Comparative Mutagenic Effects
of Laboratory Dyes on Dr Mondo who helped put the	osophila Melanogaster". I had a half ho e experiment in scientific context.	our interview with graduate student James