

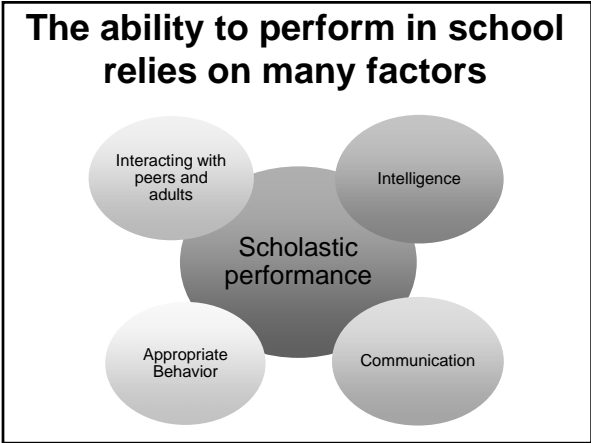
**Research Update:
Scholastic and Behavioral Issues
in Galactosemia**

Judy Fridovich-Keil Emily Ryan

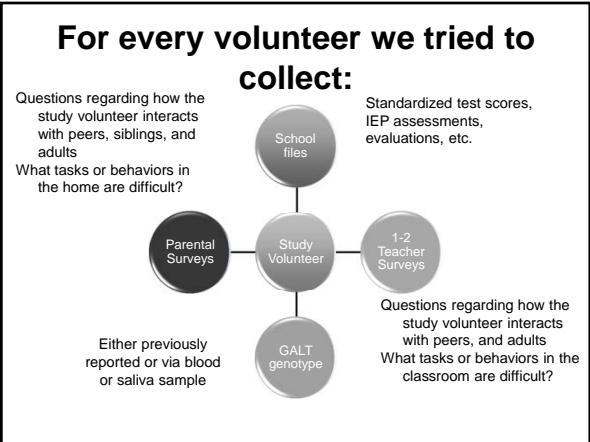
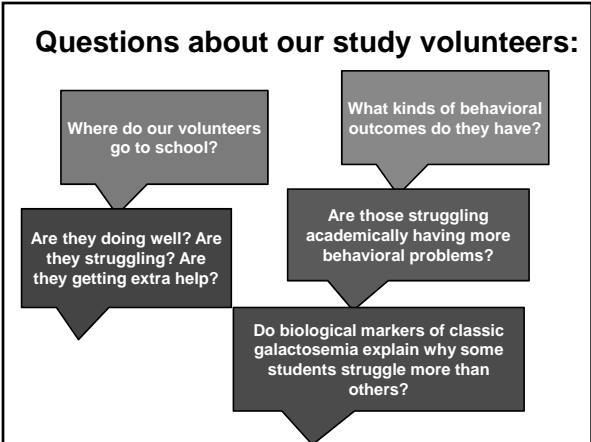
No conflicts of interest to disclose

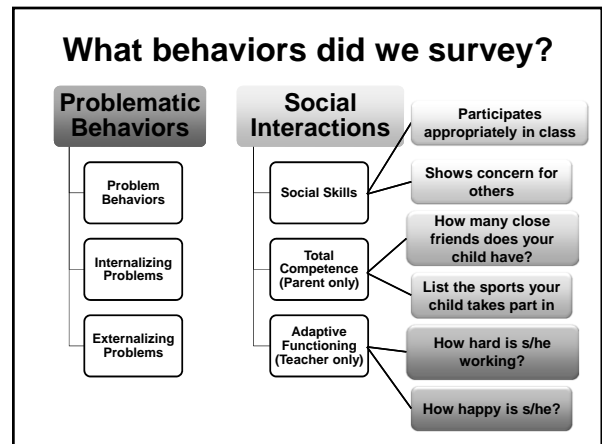
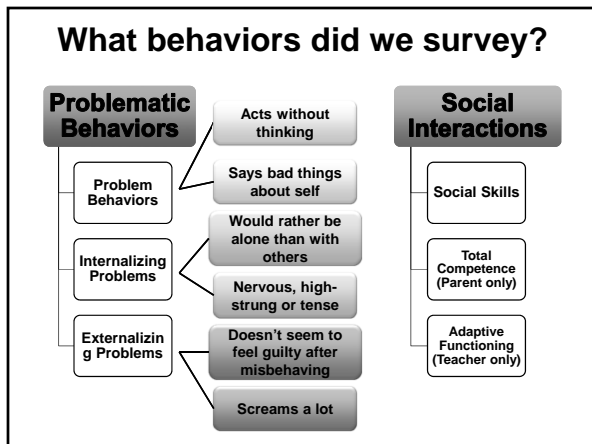
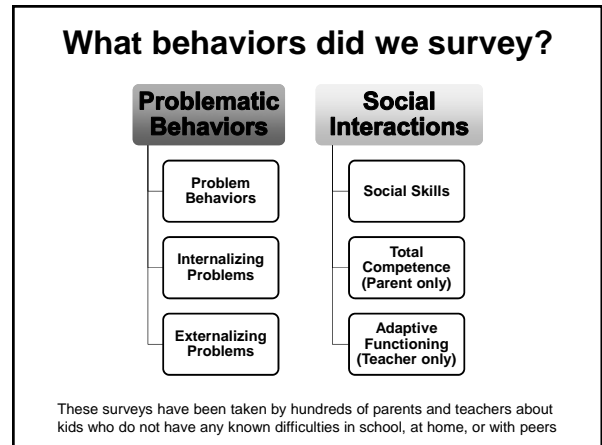
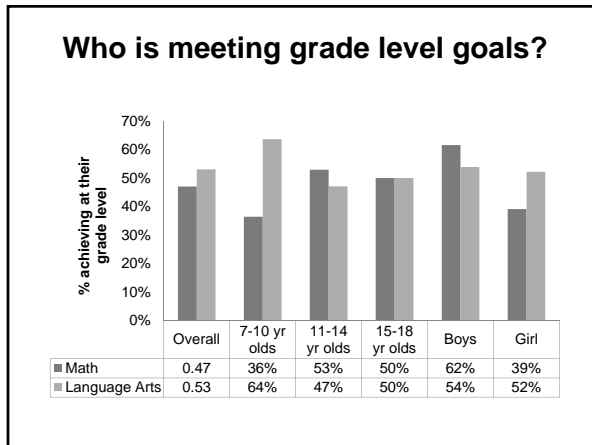
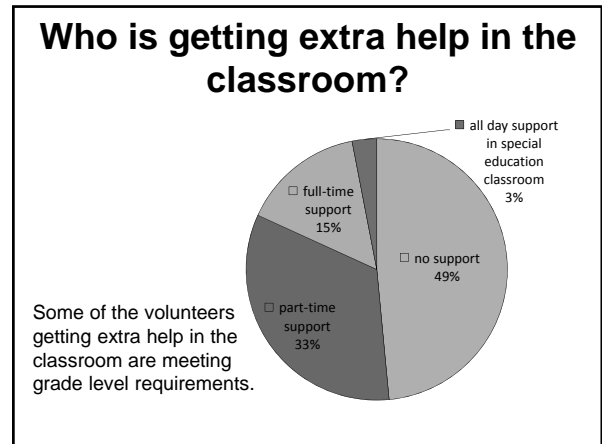
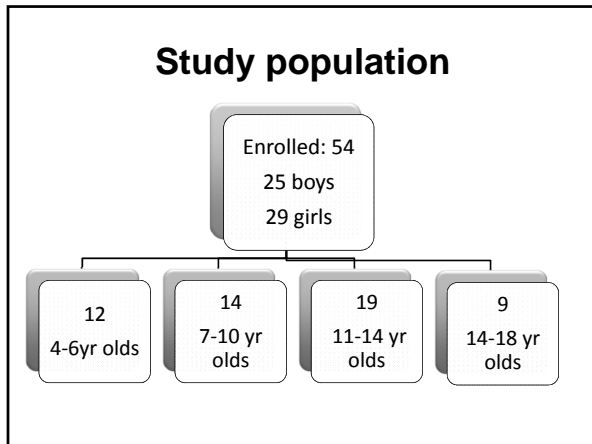
**Without your participation and
assistance we could not do this research**

**THANK YOU FOR PARTICIPATING
IN OUR STUDY!**

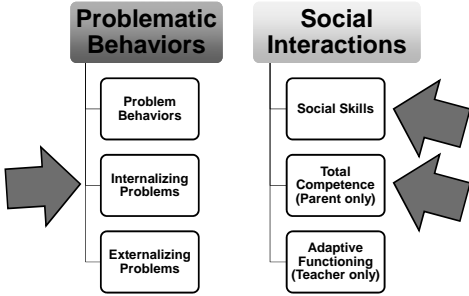


- Previous Research**
- range of IQs but many are below average
 - higher than normal incidence of clinical depression
 - speech difficulties are common
 - anecdotal evidence of difficulty in school
 - does this reflect a cognitive problem?
 - is this secondary to a speech problem?
 - other options....?

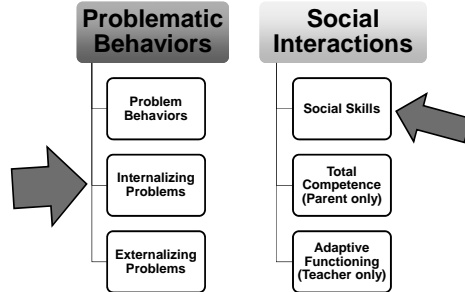




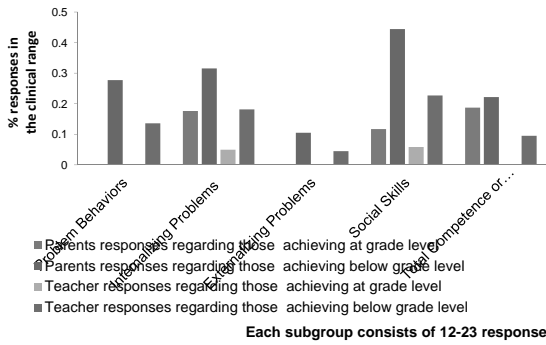
Parents reported our study volunteers had problems with:



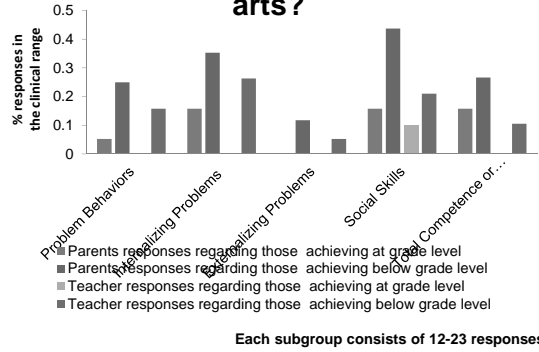
Teachers reported our study volunteers had problems with:



Is there a relationship between behavior and achievement in math?



Is there a relationship between behavior and achievement in language arts?

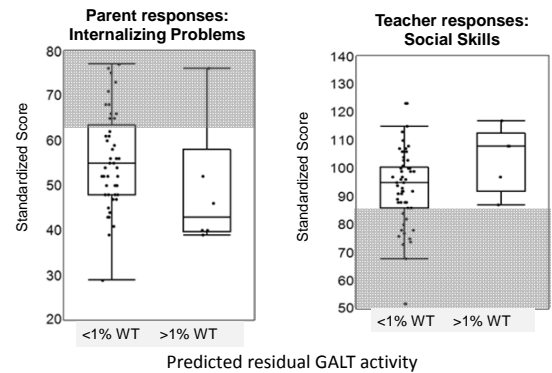


Is residual GALT activity a prognostic indicator of scholastic outcome?

Predicted GALT activity (% of the wild-type hGALT allele)	0-1%	>1%
Overall (n=53)	47	6
Enrolled in special education (n=17)	15	2
Not enrolled in special education (n=15)	12	3
Achieving in Math (n=16)	11	5
Not Achieving in Math (n=19)	18	1
Achieving in Language Arts (n=18)	13	5
Not Achieving in Language Arts (n=17)	16	1

**There are so few study volunteers currently in the study with predicted GALT activity it is hard to determine if there is a difference.

Is residual GALT activity a prognostic indicator of behavioral outcomes?



Conclusions

- What kinds of scholastic and behavioral outcomes are represented in our study population?
 - They vary but there are more problems with behavior and social skills than the general population
- Do the behavioral outcomes co-vary with the scholastic outcomes?
 - Yes, those struggling academically are more likely to experience behavioral challenges
- Does trance GALT activity matter?
 - Maybe, Social skills

**Our Lab says thanks for helping us
with this research!**

