Continuation/Research Progression Projects Form (7)
Required for projects that are a continuation/progression in the same field of study as a previous project. This form must be accompanied by the previous year's abstract and Research Plan/Project Summary.

Student's Name(s)

Sara Mc Sweeney

To be completed by Student Researcher: List all components of the current project that make it new and different from previous research. The information must be on the form; use an additional form for previous year and earlier projects.

Components	Current Research Project	Previous Research Project: Year: 2018	
1. Title	Increasing the Desiccation Tolerance of Eragrostis tef through Exogenous Application of Absisic Acid to Ensure Food Security	The Effects of Abscisic Acid on the Drought Tolerance of Arabidopsis thaliana: a Dose-Response Study	
Change in goal/ purpose/objective	Does exogenously applying ABA to Eragrosits tef increase the desiccation tolerance of the seedlings	Finding a concentration of ABA that would lead to the healthiest plant after exposure to desiccation	
3. Changes in methodology	- three treatments: Control, Water, and ABA (20µM) - experimental organism: Eragrostis tef	- six treatments: 0µM, 5µM, 10µM, 15µM, 20µM, and 1mM - model organism: Arabidopsis thaliana - four strands: wildtype (WT), ABA deficient (ABAd), ABA resistant (ABAr), and drought resistant (DR)	
4. Variable studied	Eragrostis tef	Arabidopsis thaliana	
5. Additional changes	- stressor assays: relative water content, electrolyte leakage, chlorophyll and carotenoid content	- percent germination, relative water content, electrolyte leakage	

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☑ Abstract and Research Plan/Project Summary, Year 2018

I hereby certify that the above information is correct and that the current year Abstract & Certification and project display board properly reflect work done only in the current year.						
Sara Mc Sweeney	sara la	Juleney	12/9/19			
Student's Printed Name(s)	Signature	1	Date of Signature (mm/dd/yy)			