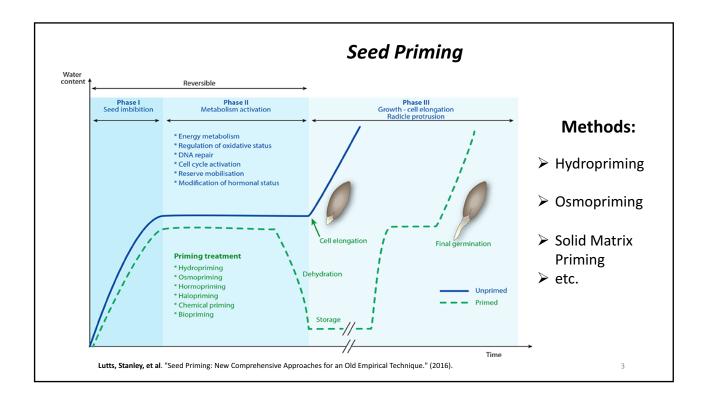
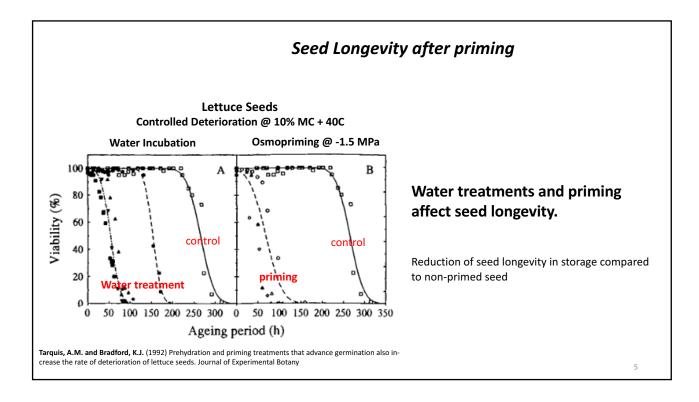
## Seed Priming Effects on Longevity

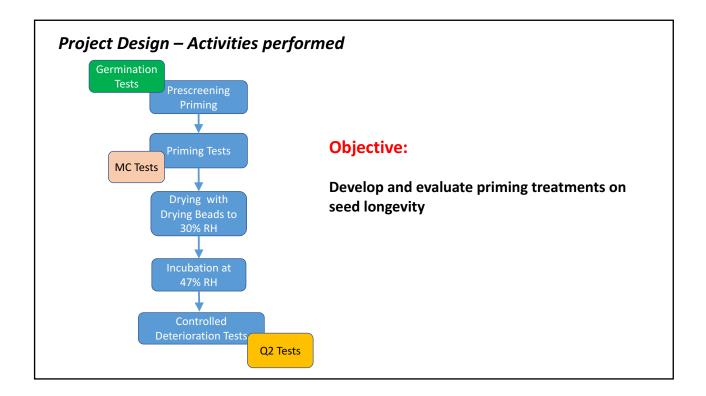
Zhi Li Department of Environmental Horticulture University of Florida

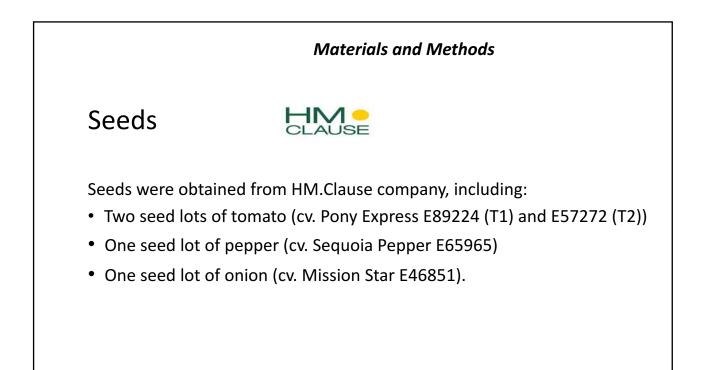
Overview			
	1.	Introduction	
		Seed Priming	
		Seed Longevity	
	2.	Project Overview	
	3.	Materials and Methods	
		Seeds	
		Solid Matrix Priming	
		Q2 Analysis	
	4.	Results	
			2
			~

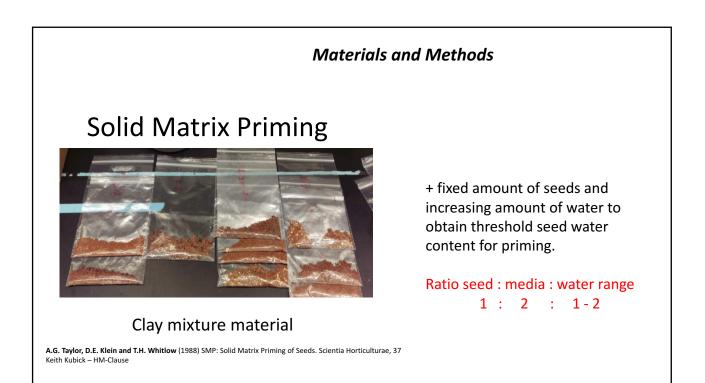


Seed Priming						
Effects of priming:	Factors affect priming:					
<ul> <li>Increase germination rate and uniformity</li> </ul>	Temperature					
<ul> <li>Develop seedling root systems rapidly</li> </ul>	Water potential					
<ul> <li>Break dormancy, overcome some adverse</li> </ul>	<ul> <li>Priming duration</li> </ul>					
conditions, e.g. high temperature	"Hydrothermal priming time" Model					
<ul> <li>Reduce seed longevity, especially at high moisture content</li> </ul>						

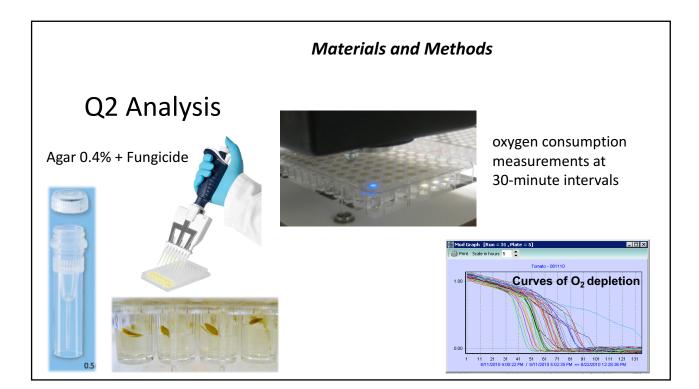


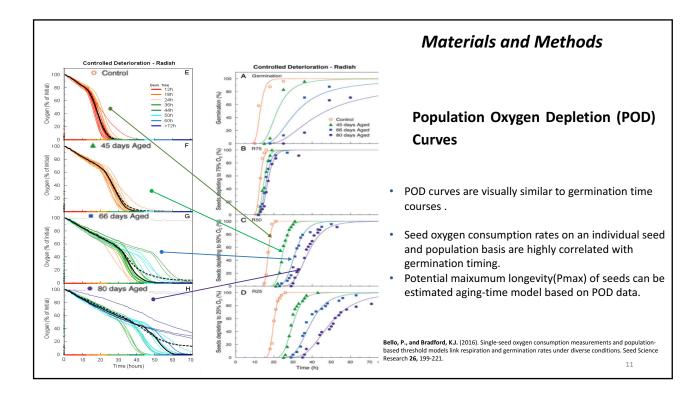


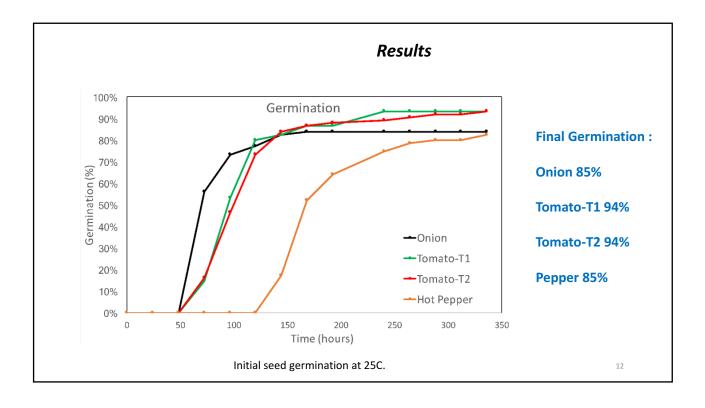












	Days for germination						
Water added (ml)	Pepper	Onion	Tomato-T1	Tomato-T2			
2.5	None	None	None	None			
2.75	None	None	None	None			
3	None	None	None	None			
3.25	Day 7	Day 6	Day 10 (few)	Day 6 (few)			
3.5	Day 5	Day 6	Day 5	Day 5			
3.75	Day 5	Day 3	Day 4	Day 4			
4	Day 5	Day 2	Day 3	Day 2			
4.25	Day 4	Day 2	Day 2	Day 2			
4.5	Day 4	Day 2	Day 2	Day 2			
4.75	Day 4	Day 2	Day 2	Day 2			

## **Results - Prescreening of Priming**



2.5g of seed + 5g of clay media + different amount of water.

13

Amount of days required to start of germination adding increasing amount of water on bags (2.5-4.75ml). 3ml chosen for priming on all species.

