Topic		Significar topic?	PhDs	MDs	MD/ PhDs	men	women	<86	86-95	>95	not UChicago	UChicago
Definition	Metastasis is the Spread	0.00070	0.01414		0.00206	0.02641	0.00627	0.00061			0.00159	
	Distant vs. Regional											
	Spread vs. secondary tumor						0.00007					
	Metastasis is the secondary tumor growth Definition depends on Detection						0.00627	-				
	Metastasis in a Multistage Process											
	Definition depends on Steps in the Process											
	Definition depends on Route											
	Metastasis is part of Cancer									1		
	Not clear what it is We don't know											
Tropism factors	Combination of things							0.04165				
	Similar biology in primary & metastatic sites							5.61166				
	Genetic											
	Circulation				0.02576							
	Stickiness	0.00000	0.00044			0.00005	0.04405	0.00004	0.00050		0.00450	0.00545
	Microenvironment Seed and soil	0.00003	0.00041			0.00025	0.04165	0.00061	0.00058		0.00159	0.00545
	Chemical communication											
	Developmental connection											
	Selection											
	Blood supply											
	Other factors	0.00777			0.00570		0.04405			0.04000		
When Metastasis acquired	Early/beginning Early in tumor development	0.02777			0.02576		0.04165			0.01980		
	During/late in tumor development									+		
	In cancer stem cells								†			
	At primary tumor											
	Throughout											
	Selective pressure	0.03067				0.03553						
	Pre-present, changes needed It varies					0.02641						
	Early or after mutation					0.02041						
	After mutations											
	We don't know											
	Other	0.03067				0.03553						
Acquiring Metastasis Depends On	Cell type											
	Tumor type, size, stage	0.02067						0.04165				
	Organ, site Tissue, stroma, microenvironment	0.03067										
	Selection pressure, microenvironment											
	Individual's genetics											
	Individual's environment											
	Mutations, changes											
	Blood supply											
	Random Many factors throughout											
	Don't know											
	Ability to move/invade											
	If evades immune system											
	Pass threshold/barrier	0.03067										
	Suppression loss											
	Signaling FCM provinity											
	ECM proximity Other	0.03067										
nections	Connection between Development and Metastasis	0.03007						0.00627	<u> </u>		0.00159	
	Need to understand connection between							1				
	Development and Metastasis											
	Need to understand connection between											
	Development and Cancer							-	-	1		
our	Cells use existing mechanisms Connection between Development and Cancer											
Developmental Connections	Similarities between Development and	0.00000	0.00005	0.00754	0.00008	0.00000	0.00061	0.00061	0.00000	0.01980	0.00000	0.00013
	Metastasis/Cancer											
	Similarities between Development and Metastasis	0.00070			0.00206	0.00025			0.00058		0.01062	0.02407
	Similarities between Development and Cancer	0.00332	0.01414			0.02641	0.04165	0.04165	0.02902	1	0.00159	
	Differences between Development and Metastasis/Cancer	0.03165	0.01414					0.00627				
	Development is controlled, cancer is not		0.01414									
	Specific issues on control loss		0.01414						†			
	Genetic changes											
ary	General comments in agreement	0.00000	0.01414	0.00054	0.02576	0.00147	0.00061	0.00627	0.00058		0.01062	0.00013
Evolutionary Connections	Natural selection	0.00003	0.00041		0.02576	0.00147	0.00627	0.04165	†	0.00215	0.00159	0.00545
	Other evolutionary connections							<u> </u>		 		
SE									-	+		
	Treatment similar to Evolution		<u> </u>	<u> </u>	<u> </u>					<u> </u>		