Feeling crowded? Get creative: Crowding cues lead to increases in creative thinking Molly Remondino, Londyn Bull, Marjorie Prokosch, Thomas Blue, & Sarah Hill Texas Christian University, Department of Psychology TCU COLLEGEOF SCIENCE & ENGINEERING



Introduction

While mortality threats have heavily influenced life-history evolution, so too have pressures posed by high population density.

Resource competition in crowded environments promotes:

- Adopting *slower life history strategies* to increase competiveness for existing resources (Reznick, Bryant, & Bashey, 2002).
- *Ex.* Crowding cues lead people to favor investing more in their own development (*e.g.* seeking higher education), and in their children's (Sng, Neuberg, Varnum, & Kenrick, 2017).
- An increase in *divergent* traits, as organisms search for new resource niches to exploit (Bush, 1975; Grant, 1972).
- *Ex.* Humans' high intelligence may have developed, in part, to help generate novel solutions to social resource competition (Flinn, Geary, & Ward, 2005).

Research Question: is creativity - a form of divergent thinking attuned to fluctuations in population density?

- Do crowding cues prompt increases in creative thinking?
- Do resource competition perceptions mediate these increases?

Study 1

Goal: Examine how crowding cues affect openness, a personality trait linked to creativity (McCrae, 1987; Silvia et al., 2009).

Hypothesis: Crowding cues should lead people to report heightened openness, relative to control cues.

Method

- TCU undergraduates (n = 145) viewed a randomly assigned slideshow about population increases or modern architecture
- 2. Next, they completed the Ten Item Personality Measure (TIPI: Gosling, Rentfrow & Swann, 2003)

Results

Table 1. TIPI scores by priming condition

	Crowding		Architecture			Resu
	<u>M</u>	<u>SD</u>	<u>M</u>	<u>SD</u>	<u>t-value</u>	<u></u>
Openness	5.36	0.99	4.99	1.12	2.11*	0.35
Conscientiousness	5.74	1.15	5.41	1.38	1.57	0.26
Agreeableness	4.92	1.14	5.18	1.15	-1.37	-0.23
Extraversion	4.78	1.59	4.21	1.7	2.09*	0.35
Neuroticism	3.38	1.53	3.24	1.5	0.56	0.09
<i>Note.</i> * denotes $p < .6$	05.					

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lts <u>95% CI</u> 0.02 - 0.72 -0.09 - 0.74 -0.64 - 0.12 0.03 - 1.11 -0.36 - 0.64



