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1	Quantitative Research Study: Genetically Modified Organisms:
2	A College Student's Perspective
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Abstract 7

material has been manipulated ?artificially? in a laboratory through genetic engineering. This 8 relatively new science creates unstable combinations of plant, animal, bacterial, and viral

- 9
- genes that do not occur in nature or through traditional crossbreeding methods (Non-GMO 10 Project, 2015). With so many food options available, the aim of this study is to explore food
- 11 purchasing trends of college students to determine how awareness of GMOs affects their
- 12 likelihood of buying non-GMO products. Data were collected from 214 students at a southern 13
- university, using an electronic questionnaire. Results showed that even prior to survey 14
- completion; students had a relatively good knowledge of GMOs. They also felt this 15
- information would increase their likelihood of buying non-GMO products. In terms of cost, 16
- the majority agreed they would purchase non-GMO products if prices were lower. 17
- Additionally, most respondents disagreed when asked whether gender affected their perception 18 of GMOs. Ideasfor further research were also explored. 19
- 20

Index terms—genetically modified organisms/gmos, perceptions, health, expectancy. 21

1 Introduction 22

Volume XVI Issue V Version I t is an issue that has sparked a wave of controversy on a global scale. 23 Should consumers be privy to ingredients in the foods they purchase, specifically those that are genetically 24 modified? In simple terms, genetically modified organisms (GMOs) are those whose genetic material has been 25 manipulated "artificially" in a laboratory through genetic engineering. This relatively new science creates unstable 26 combinations of plant, animal, bacterial, and viral genes that do not occur in nature or through traditional 27 crossbreeding methods (Non- GMO Project, 2015). While some may tout GMOs as being harmless, Geib 28 (2012) stresses how they are linked to complications such as Morgellons disease, allergies, immune reactions, 29 and sterility. From an agricultural perspective, Smith (2008) shares the following GMO example: "A gene from 30 the soil bacterium called Bt (for Bacillus thuringiensis) is inserted into corn and cotton DNA, where it secretes 31 the insect-killing Bt-toxin into every cell. About 19% of GM crops produce their own pesticide. Another 13% 32 produce a pesticide and are herbicide tolerant" (para. 6). 33

2 Ι 34

In 2013, the World Health Organization announced the transfer of the antibiotic-resistant genes inserted into GM 35 36 (genetically modified) foods could also be absorbed into human cells. This news heightened negative attitudes regarding the contamination of crops, land, and water from pesticides and chemicals (Fromartz, 2006). 37

In our society, even the most conscious consumer may still face a conundrum because it is quite difficult 38 to determine whether many products are "truly" non-GMO. Peterson (2011) attests, "You put one non-GMO 39 certified ingredient into the mix and place the non-GMO certification stamp on the front label" (para. 3). Even 40

Mark Squire (2015) of the non-GMO Project admits products cannot be verified as completely GMO free due to 41

seed and crop contamination. 42

⁴³ 3 a) Purpose of Study and Theoretical Application

44 Realistically, there are still uncertainties surrounding GMO and non-GMO products (Van Dijk, Van Kleef, Owen, 45 & Frewer, 2012). With so many food options available, what is a consumer to do? The purpose of this pilot study 46 is to explore specific purchasing trends of college students at Pensacola State College in Pensacola, Fla. Will 47 an awareness of GMO products increase their likelihood buying non-GMO items, or could other circumstances 48 impact their decisions?

Victor Vroom's (1964) expectancy theory of motivation will offer insight into how these choices may be influenced by additional elements, whether personal or societal. The theory proposes a person decides to behave in a certain way, selecting one behavior over another, based on the "expected" result of the particular behavior (Harris & Reynolds, 2003;Lim & Dubinsky, 2004). The motivation behind a chosen behavior is determined by the desirability of the expected outcome ??Zhu, Nakata, Sivakumar, & Grewel, 2013;Hemamalini & Washington, 2014). For this study, it could be expressed in relation to GMO versus non-GMO food consumption.

55 Abstract-Genetically modified organisms (GMOs) are those whose genetic material has been manipulated 56 "artificially" in a laboratory through genetic engineering. This relatively new science creates unstable combinations of plant, animal, bacterial, and viral genes that do not occur in nature or through traditional 57 58 crossbreeding methods (Non- GMO Project, 2015). With so many food options available, the aim of this study is to explore food purchasing trends of college students to determine how awareness of GMOs affects their likelihood 59 of buying non-GMO products. Data were collected from 214 students at a southern university, using an electronic 60 questionnaire. Results showed that even prior to survey completion; students had a relatively good knowledge of 61 GMOs. They also felt this information would increase their likelihood of buying non-GMO products. In terms 62 of cost, the majority agreed they would purchase non-GMO products if prices were lower. Additionally, most 63 respondents disagreed when asked whether gender affected their perception of GMOs. Ideas for further research 64 were also explored. 65

Although some farmers have chosen not to embrace GMOs, the global numbers are still rising (Jagadeesan,
 2011). Smith (2008) reveals how many people digest the proteins more slowly from genetically modified foods
 because they also reduce the digestive enzymes in mice.

⁶⁹ Furthermore, at expectancy theory's core is the cognitive process of how an individual processes the different

70 motivational elements (Fu, 2009;Hemamalini & Washington, 2014). This processing is done before an individual

⁷¹ makes the final choice (Stankovic, 2013). The expected result is not the sole determining factor in the decision of

72 how to behave ? because the person has to predict whether or not the expectation will be fulfilled **??**Boundless,

73 2014). This leaves room for influence, something this study will explore in great detail. Data will be gathered 74 and analyzed to determine which variables impact college students' decisions to purchase non-GMO products or

75 avoid them altogether.

76 **4** II.

77 5 Literature Review

Overall, the issue of GMOs has generated a great deal of interest and debate. When consumers lack a clear
understanding of the GM (genetically modified) food industry, they often struggle to make informed decisions
regarding the safety of foods they eat (Knight, 2007). Interestingly, for college students, reactions tend to vary.
From a consumer standpoint, some researchers contend college students' perceptions of GMOs can determine
the success of current products, including those launched in the future (Hugher, McDonagh, Prothero, Shultz, &

Stanton, 2007).
Finkle and Kim (2003) conducted a GMO study consisting of Korean and American college students. Although
the majority of both groups were concerned about health risks from GM foods, the proportion of Korean students
(87%) was much higher than American students (58%). Their findings revealed "women and students who were
more likely to invest in health through nutrition and exercise were also more likely to be concerned about GM

⁸⁸ foods" ??Finkle & Kim, 2003, p. 191).

Lauk, Mosher and Freeman (2010) explored GMO perceptions at an undisclosed research university in the U.S. Surveys were administered to American and international college students to determine factors that may affect their perceptions of GM food products. Results indicated students born outside the U.S. had increased

92 negative opinions about GM foods, a sharp contrast in the attitudes of American-born students. Meanwhile, 93 those enrolled in physical sciencebased curriculums had more favorable opinions of GM foods, compared to those

94 in other programs.

Research conducted at Sultan Qaboos University in India yielded mixed findings. Al-Rabaani and Al-Shuaili (2014) surveyed 460 randomly-selected students from eight programs of study. The results showed students had some knowledge of organic products, but their awareness of GM foods was poor. They had favorable opinions of organic food products and negative attitudes towards GM foods. While males had a higher level of awareness about both times of food formales tonded to favor organic food products are CM optimes.

⁹⁹ about both types of food, females tended to favor organic food products over GM options.

100 **6 III.**

¹⁰¹ 7 Research Questions

102 IV.

¹⁰³ 8 Methodology a) Participants

Participants for this study consisted of 214 students from Pensacola State College (PSC) in Pensacola, Fla. It is a state-supported school with six campus locations. The student sample included 96 Batrinou, Spiliotis, and Sakellaris (2008) explored the perceptions of college students at a university in Greece. Of the 229 people surveyed, 63% had negative attitudes when viewing products labeled as GM. In contrast, food labels bearing GM and European Union (EU) approved seals were viewed in a more receptive manner. Despite the findings, 28% of all respondents still refused to embrace the idea consuming GM foods.

A study conducted in Italy, Norway, and England investigated what factors influence consumers to pay 110 higher prices for non-GMO products. Miles, Ueland, and Frewer (2005) surveyed participants in each country. 111 They concluded that receiving information about GMO traceability did not increase participants' trust in food 112 regulators. However, specific knowledge about a product's full list of ingredients did. Goktolga and Esengun 113 (2009) conducted similar research in Turkey. They administered questionnaires to 226 households. 114 Their overarching goal was to determine whether families would be willing to pay more for non-GMO tomato crops. 115 Results indicated that "household size and monthly household income had negative effects on the willingness 116 to pay extra" (Goktola & Esengun, 2009, p. 1188). Meanwhile, an investigation of GM attitudes in Croatia 117 revealed media stories used to persuade residents of the benefits of GMOs were losing their momentum. Renko, 118 Brcic-Stipcevic, and Renco (2003) found that increased levels of skepticism by citizens triggered an elevated level 119 of non-acceptance. 120

The aim of this pilot study was to gauge how a college student's knowledge of GMOs would impact their 121 decision to purchase products containing them? or refrain from doing so altogether. Could knowledge "alone" 122 serve as a catalyst for change, or would other factors influence their consumer decisions? Based on previous 123 research, theoretical reasoning, and scarcity in academic literature, the following research questions are posed: 124 RQ1: Does a college student's knowledge of non-GMO products increase their likelihood of buying them? RQ2: Is 125 the desire to eat healthier enough to justify paying higher prices for non-GMO products? The survey (Appendix 126 A) contained 35 questions that addressed the following areas: personal knowledge of GMOs, the likelihood of 127 buying non-GMO products, factors that could hinder the decision altogether, societal knowledge of GMOs, and 128 personal food preferences (e.g., whether GMO or non-GMO). The last section included items that did not tie in 129 directly to the research questions, but could be used later for further data analysis. For example, two questions 130 dealt with educational levels of respondents' parents. Another asked for students' grade point averages (GPAs). 131 All questions were "stand alone," meaning they measured different variables. A majority were Likert-Scale items 132 with a scale of 1-5, ranging from "Strongly Disagree" to "Strongly Agree." 133 134 V.

135 9 Procedure

The survey was created and disseminated via the online survey website, Qualtrics. Advisors from various student organizations at Pensacola State College asked members to participate on a voluntary basis. The Phi Theta Kappa Honor Society spearheaded this initiative. Several advisors also shared the Qualtrics survey link with students in their regular classes. Data VI.

$_{140}$ 10 Results

Collected data were exported from Qualtrics directly into the popular IBM Statistical Package for the Social Sciences (SPSS), which is a software package for statistical analysis. Once the correct measure was applied to the imported variables, a determination was made to use multiple models to analyze the resulting data. The results will be discussed in a structure consistent with the research questions. They measured different variables through both categorical and continuous data. To examine the first research question (RQ1), a chi-square analysis was performed. It explored whether a college student's knowledge of GMO productswould increase their likelihood of buying them.

The findings revealed significant results: x 2 (1) = 8.768, p < .01 (Table ??).

Table ?? : Chi-square Test A crosstab analysis revealed 69% of respondents had prior knowledge of GMOs
before taking the survey. Interestingly, 56% of participants admitted increased knowledge of GMOs would improve
their likelihood of purchasing non-GMO products.

To analyze the second research question (RQ2), a simple regression analysis was performed. It tested whether the desire to eat healthier was enough to justify paying higher prices for non-GMO products. Data shown in Table ?? revealed the following results, supporting the regression model's significance: F = 12.241, df = 1, p <

155 .01.

148

¹⁵⁶ 11 Table 3 : Significance of Regression Model and Mean Square

The proportion of variance in the dependent variable (e.g., justifying paying higher prices for non-GMO products) is R 2 = .053 or 5.3%. The regression equation was formulated using unstandardized coefficients provided in the output (shown in Table 4): Q7 = 4.458 -(.266*Q6). The third research question (RQ3) explored whether gender affects a college student's perception of GMOs. It was analyzed using a t-test. The means were: 2.45 for men and 2.39 for women (Table ??). The Levene's Test for Equality of variances indicated "Equal variances assumed." The end result was not significant: t = .413, df = 212, p = .68; p/2 = .34>.05 (Table 6).

Therefore, gender had no effect on students' perceptions of GMOs. Further examination of data revealed 35% of the respondents elected to take a neutral stance, while 51% disagreed completely. Only 13% stated they believed gender had an impacting difference on college students' perceptions of GMOs.© 2016 Global Journals Inc. (US)

Results from the study indicated respondents from Pensacola State College believed having knowledge of non-GMO products would increase their likelihood of buying them (RQ1). Through expectancy theory, Vroom (1964) argued the anticipated result is not the "sole" determining factor in the way a person behaves. It is up to the individual to determine whether or not that specific expectation will be fulfilled (Stankovic, 2013). Since there was not a 100% favorable response rate in relation to the likelihood of purchasing non-GMO products in RQ1, it is yet another indicator that our individual perceptions can be impacted by other factors instead of the "desire" to do something.

Vroom's (1964) theoret ical assumption was also addressed through specific survey questions that dealt with product labeling. A resounding 57% attested non-GMO product packaging led to the fulfillment of their expectation making a non-GMO purchase. In reference to public knowledge about the dangers of GMOs, 91% agreed food manufacturers should take a proactive approach by labeling their products (e.g., either GMO or non-GMO). However, the expectation and the implementation of such labeling are "two" separate things. This is because all too often, the intentions of regulators are overshadowed by those who remain skeptical about manufacturers of GM foods on grocery store shelves (Renko et al., 2003).

Meanwhile, findings from RQ2 indicate a college student's desire to eat healthy would be enough to justify 181 paying higher prices for non-GMO products. When asked if they earned enough money to buy non-GMO products, 182 42% conveyed a neutral stance, while 22% admitted they made enough to make such purchases. The majority of 183 respondents (52%) earned less than 25,000 annually. In terms of purchasing power, this revelation shed light on 184 who could possibly be buying non-GMO foods in households. As Vroom (1964) contended, desire can be expressed 185 through conversations or other means? and later translated into expectancy. However, financial obstacles can 186 also pose problems. This situation lends credence to the idea that for these college students? parents, spouses, 187 188 friends, or others could be helping them in their quest to avoid GMOs. The survey also addressed additional 189 factors regarding food choices. Although many (35%) admitted reading product packaging before making grocery 190 store purchases, 36% revealed the thought rarely crossed their minds. In relation to fast food

¹⁹¹ 12 Expanded Study

A larger study would entail addressing the impact of GMOs across generations, dealing specifically with Baby Boomers, Generation X, and Generation Y. Through a series of correlation analyses conducted among specific age groups, the intent would be determine whether age and gender have a significant impact on a person's likelihood of purchasing non-GMO products.

The survey would be administered electronically through a network of colleges and universities across America, both public and private. College faculty and administrators would also be prospective respondents.

In this refined study, Mannheim's (1927) Theory of Generations would be used. It suggests generations change swiftly in response to major events (DeChance, 2014). This theory can be summarized by the idea that "people resemble their times more than they resemble those of their parents" ??McCrindle, 2007, p. 4). In reference to non-GMO products, it would be interesting to see if it held true for this expanded study.

²⁰² **13** VIII.

203 14 Summary

Results from this study showed that even prior to survey completion, students at Pensacola State College had 204 a relatively good knowledge of GMOs. They also felt this information would increase their likelihood of buying 205 non-GMO products. In terms of cost, the majority agreed they would purchase non-GMO products if prices were 206 207 lower. Additionally, most respondents disagreed when asked whether gender affected their perception of GMOs. 208 restaurants, 73% agreed consumers should know whether their items contain GMOs. Upscale restaurants were not excluded, as a majority of respondents (74%) also felt they should do the same. In relation to motivation 209 and time, it was interesting to read how respondents made food choices. Of the 214 participants, 131 agreed 210 they normally ate fast food while in a hurry, compared to 165 who attested they preferred making their own 211 meals at home. Interestingly, only 2% shopped primarily at whole foods/organic markets, while the majority 212 (60%) frequented regular grocery stores (e.g., Food Lion or Publix). Although the desire to eat healthy may have 213

resonated in the minds of many, the final decision was not always non-GMO. On average, 50% admitted eating at fast food restaurants at least once per week.

Results indicated RQ3 was not supported, meaning respondents did not think gender affected a college student's perception of GMOs. Of the 214 respondents, there were 96 males and 118 females. While 51% disagreed, 35% took a neutral stance. Of this sample, 78% were single, while only 16% were married. The fact that there were so few married participants was intriguing. Pensacola, Fla., is a huge military city, with both Air Force and Naval bases. It would have been interesting to see how a larger sample for this pilot study could have changed the scope of these specific differences.

Research questions aside, the last item on the GMO survey (Q35) addressed whether respondents "really" read the paragraph that described the nature of GMOs. A whopping 78% maintained they did, while 22% admitted they skipped it entirely. From an ethical standpoint, this question was added for sheer curiosity. It was also included to help gauge survey trends, specifically regarding content and estimated completion times. Going forward, it can help this researcher gauge how such descriptive elements can be integrated successfully in both

227 electronic and hard-copy mediums.

²²⁸ 15 a) Limitations and Proposal for Larger Study

Although this pilot study focused on GMOs and perceptions at one school, it would be beneficial to take this research one step further. With time constraints, lack of funding, and the reliance on one college, this researcher was aware of bias that could have been perceived. The study was limited to college students, many of whom were in their first (40%) or second year (39%). From a cultural perspective, 77% of respondents were Caucasian. It would have been nice to obtain a more "diverse mix" of participants. African American, Asian, and Hispanic American students each comprised 6%. At 31%, Christians (non-denominational) exemplified the highest level of participation. However, there were no respondents from Islamic, Hindu, or Jewish faiths.

236 16 References Références Referencias

²³⁷ 17 Appendix a

Electronic Survey: Genetically Modified Organisms: A College Student's Perspective Thank you in advance for your participation! Online Survey: Health concerns have prompted many consumers to take a closer look at the food items they purchase. However, a desire to eat healthier does not always translate into buying products that are better for us. Numerous factors often come into play. Therefore, the focus of this survey is to better understand the choices college students make when buying food, specifically those items which contain Genetically Modified Organisms (GMOs). Please answer each item as honestly as you can. All answers are anonymous, and results will be used strictly for academic purposes.

Consent: I understand my participation in this study should take approximately 10 minutes. I know that I may refuse to answer any question asked, and that I may discontinue participation at any time. I am aware that I must be at least 18 years of age to participate. My completion of the survey signifies my voluntary participation in this project.

What are GMOs? The following information was obtained from the Non-GMO Project: http://www. 249 nongmoproject.org/learn-more/ GMOs are living organisms whose genetic material has been artificially manipu-250 lated in a laboratory through genetic engineering, or GE. This relatively new science creates unstable combinations 251 of plant, animal, bacterial and viral genes that do not occur in nature or through traditional crossbreeding 252 methods. Virtually all commercial GMOs are engineered to withstand direct application of herbicide and/or to 253 produce an insecticide. Despite biotech industry promises, none of the GMO traits currently on the market offer 254 increased yield, drought tolerance, enhanced nutrition, or any other consumer benefit. Meanwhile, a growing 255 body of evidence connects GMOs with health problems, environmental damage and violation of farmers' and 256 consumers' rights. Most developed nations do not consider GMOs to be safe. In the U.S., the government has 257 approved GMOs, based on studies conducted by the same corporations that created them and profit from their 258 sale. Increasingly, Americans are taking matters into their own hands and choosing to opt out of the GMO 259 experiment. Unfortunately, even though polls consistently show that a significant majority of Americans want 260 to know if the food they're purchasing contains GMOs, the powerful biotech lobby has succeeded in keeping this 261 information from the public.¹

1

RQ3: Does gender affect college students' perceptions of GMOs?

[Note: © 2016 Global Journals Inc. (US) GMO Survey: A College Student's Perspective]

Figure 1: Table 1 :

 $\mathbf{4}$

Coefficients a

[Note: \bigcirc 2016 Global Journals Inc. (US) s]

Figure 2: Table 4 :

 $^{^1 \}odot$ 2016 Global Journals Inc. (US) Quantitative Research Study: Genetically Modified Organisms: A College Student's Perspective

Quantitative Research Study: Genetically Modified Organisms: A College Student's Perspective Quant Q9. I do not make enough money to buy non-GMO products. Q26. Gender:

VolumeYes ? No Q2. Even if you knew information about GMOs beforehand, would this knowledge increase XVI

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17 APPENDIX A

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