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12	Fine as North Dakota Wine:
13	Sensory Expectations and the Intake of Companion Foods
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49	Sensory Expectations and the Intake of Companion Foods
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52 52	
55 54	Abstract
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56	Although taste expectations can influence taste evaluation. can such an
57	environmental cue have a referred impact on the intake volume of companion
58	foods? Adult diners who ordered a prix-fixe restaurant meal were given a
59	complimentary glass of wine that had been relabeled to induce either favorable
60	("new from California") or unfavorable ("new from North Dakota") taste
61	expectations. An analysis of plate waste indicated that those who believed they
62 62	had been drinking California wine ate 12% more of their meal than those who
03 64	has a lab study, these results show that environmental quest, such as label
65	induced sensory expectations – can have a far-reaching impact on the food intake
66	of companion foods.
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76	Keywords: food intake, wine, sensory expectations, expectations, labels, taste
77	ratings, sensory halo, halo, environmental cues, quality cues

78 **1. Introduction**

79 Taste expectations can dramatically bias sensory evaluations [1, 2]. These 80 expectations can lead a person to focus on those aspects of taste that confirm (rather than 81 disconfirm) their initial expectation of it [3-5]. Within limits, a food expected to taste 82 good will taste good, and a food expected to taste bad will taste bad [6-8]. What is not 83 known, however, is whether these expectations of one food can have a referred impact on 84 the consumption of companion foods [9]. Investigating this impact on behavior will 85 contribute to the growing interest in the environmental cues that indirectly encourage 86 overconsumption and could contribute to obesity. 87 Consider the sensory-rich context of wine. The evaluation of wine is thought be 88 somewhat subjective to the willing, but untrained palate [10]. As a result, it may be that 89 various cues of quality, such as the origin, name, or label of a wine might influence 90 expected taste. What is of interest is how these expectations would influence intake of it 91 and of accompanying foods. 92 A wine that has won an award or is from a prestigious area such as the Bourdeaux 93 region in France or from California's Napa Valley, might lead one to have favorable taste 94 expectations. These expectations may lead a person to consume more wine and to enjoy 95 the accompanying food more than they would if they had a less favorable taste 96 expectation of a wine (such as if it was from North Dakota – the last American state to produce a commercial wine). Consider three supporting explanations that triangulate on 97 98 how a confirmation bias, instigated by positive expectations of wine, could increase 99 consumption of it and of accompanying foods.

100	First, positive taste expectations of a wine could lead to positive taste expectations
101	of companion foods, which would lead to increased consumption for both. For example,
102	if a served wine is perceived to be "high quality," an assumption may be that any food
103	served with the "high quality" wine is likely to be of similar quality (because it might be
104	thought that "high quality" wine is infrequently matched with a "low quality" food). As a
105	consequence, people will search for and ultimately find confirmatory sensory qualities of
106	both the wine and food ("this wine and food tastes great!"). Finding these positive
107	qualities might encourage higher consumption of the wine and food than if initial
108	expectations of the wine (and its accompanying food) were negative.
109	Second, positive taste expectations of a wine could lead to confirmatory sensory
110	experiences of it ("this wine tastes great!"), leading to more wine intake, and less self-
111	restraint. Decreases in self-restraint have commonly been linked to alcohol intake, which
112	has been shown to increase food consumption [11]. Regardless, this increased intake
113	would have initiated a biased search for confirmatory sensory evidence of the wine
114	(confirmation bias).
115	Third, positive expectations of a wine could lead to confirmatory sensory
116	experiences of the wine, food, and one's enjoyment of the aggregate experience ("this
117	wine tastes great and I am having a great time!"). Increasing the level of enjoyment
118	would lengthen one's mealtime, which – in turn – is correlated with intake [12, 13].
119	These three explanations all involve a biased search for confirmatory sensory evidence of
120	the wine and this eventually influences food intake. In combination, all three possibilities
121	suggest that positive expectations of a wine could encourage greater food consumption

122 than will negative taste expectations.

2. Study 1 -- Pre-Intake Expectations and Post-Intake Evaluations

124 An IRB-approved pre-study of 49 graduate students (63% male; average age of 125 24.6) was first conducted to determine whether expectations generated from wine labels 126 would bias one's subsequent taste of the wine and of a companion food (cheese). Upon 127 arriving at an end-of-year wine and cheese reception, volunteer participants were 128 randomly led to one of two tables on opposite sides of a large room. At one of the tables, 129 participants were individually shown (by the hosts) an inexpensive bottle of Cabernet 130 Sauvignon wine that was relabeled as being from California. Those graduate students led 131 to the other table were shown the same wine that had instead been relabeled as being 132 from North Dakota. The labels of "California" and "North Dakota" were printed in a 133 bold, 20-point font (2.4 inches wide) so that they could be easily read. In addition, the 134 colored labels on all of the bottles had been professionally designed and included a logo 135 of a fictional winery named, "Noah's Winery."

After each participant was shown either the wine from "California" or "North Dakota," they rated how tasty [14] they expected the wine to be on a 9-point scale (1 = not very tasty; 9 = very tasty). Participants were then given one-half ounce (22 ml) of the wine (ostensibly from either "North Dakota" or "California") and a 1.8 cm square cube of unlabeled mild goat cheese. As they ate both, they were asked to rate how tasty both the wine and the cheese was on a 9-point scale (1 = not very tasty; 9 = very tasty). They were then thanked at which time they joined the reception.

143 **3. Study 1 Results**

144 Of the 49 participants, 5 did not want to drink the wine, 3 did not want to not eat 145 the cheese, and 1 did not want to consume either. As illustrated in Figure 1, those who

146	believed a wine was from California had more favorable taste expectations than those
147	drinking wine they believed was from North Dakota (5.14 vs. 2.76; t (47) = 5.9, $p < .01$).
148	As expected, those in the California label condition subsequently rated the taste of both
149	the wine (5.18 vs. 3.68, t (42) = 4.3, $p < .01$) and of the cheese (4.46 vs. 3.31; t (44) = 2.3,
150	p < .05) as higher than those who believed they had drank wine from North Dakota.
151	[Insert Figure 1]
152	In general, these participants were novices with presumably untrained palates.
153	When novices articulate their expectations (such as by writing down their expectation
154	ratings prior to tasting a wine), it may lead to an experimentally-induced bias (a demand
155	effect). Although people naturally create expectations of a food prior to eating it, we
156	usually do not do so in such a salient and potentially obtrusive way [15]. While this
157	study shows that there is a strong expectation-related bias in the lab, we do not know if
158	this bias follows people to less obtrusive environments, such as when they dine out
159	during the evening. For this reason, the main field experiment, Study 2, will focus on
160	unobtrusive measures of consumption (food intake as calculated from plate waste). Such
161	measures are not at risk for being biased by sensory expectation questions.
162 163 164	4. Study 2 Expectations and the Intake of Companion Foods
165	In total, 41 patrons dining at a restaurant at a large Midwestern university
167	participated in this study, which was approved by the Institutional Review Board. Two

168 patrons were not of legal drinking age and were not included in the study. This left 39

patrons (71% male; ages 23 to 71) who were served a glass of wine and who were
included in the data analysis.¹

171 The restaurant used in this study (the Spice Box at the University of Illinois at 172 Urbana-Champaign) was concurrently being used for a university-approved fine-dining 173 course. The restaurant was open one evening a week, and the prix-fixe menu included a 174 pre-selected entrée of a starch and vegetable. On this evening, the prix-fixe meal was 175 plated and pre-weighed so that researchers could calculate how much food was consumed 176 by subtracting the weight of the remaining food from the initial weight of the entree. 177 Patrons typically had a choice of beverages at the restaurant, but on the day of the study, 178 a complimentary glass of wine and a glass of water was all that was provided. 179 Patrons arrived at the University restaurant from 5:30-7:30 p.m. during a winter 180 evening in February $(-3.4^{\circ}C)$. Although 66 reservations had been taken, 15 people were 181 not able to keep their reservations, possibly due to the weather. According to the 182 reservations they had made, patrons were seated in groups of two, three, four, or in one 183 case, nine. Once seated, one of eight servers would approach the table and say, "Thank 184 you for joining us tonight for this special meal at the Spice Box. Because this is the first 185 meal of this new year, we are offering each person at the table a free glass of this new 186 Cabernet from the state of California (or North Dakota)." Both labels included the name 187 of "Noah's Winery" as the source of the wine. The server showed the bottle to each of 188 the people at the table and then poured a predetermined amount of wine (114 milliliters)

¹ One of these patrons ate more than their pre-plated portion (i.e., leftovers from companions). To be able to use this patron's data, we did not include this additional amount of food in the analysis of grams consumed, but did include the total amount of grams that was possible to consume from this pre-plated meal (550 grams).

into each glass. He or she then said, "Please enjoy your complimentary glass of winefrom California (or North Dakota)."

191 Each table was randomly assigned to receive either California- or North Dakota-192 labeled wine. Both the California- and North Dakota-labeled wine was the same 193 inexpensive wine (Charles Shaw Winery -- \$2.99 US). In total, eight different tables 194 were given wine with the California label while eight other tables were given wine with 195 the North Dakota label. If questions were asked of the server about the free wine, they 196 simply said it was part of a promotion for a new winery. If patrons asked for additional 197 wine, servers were instructed to tell patrons that the wine was complimentary and that the 198 restaurant was not given enough bottles to generously serve more than just one glass per 199 person.

Following their meal, their time of completion was noted and patrons were thanked for their patronage. After leaving the restaurant, their entrée was cleared from the table and taken to the kitchen where the weight of the remaining plate waste was recorded. Following this, the weight of the remaining wine was recorded.

204

205 5. Study 2 Results

206 **5.1. The impact of wine labels on food consumption**

207 To initially examine the impact of wine labels on food consumption patterns,

208 independent sample *t*- tests were conducted between those patrons who had been served

209 California-labeled wine and those who had been served North Dakota-labeled wine.

210 Because the pilot study suggested that people's taste expectations were far greater for

211 California-labeled wine than North Dakota-labeled wine, we believed that people

212	drinking California-labeled wine would drink and eat more than those drinking North
213	Dakota-labeled wine. Indeed, patrons who were given California-labeled wine
214	(compared to North Dakota-labeled wine) consumed more grams of their entrée (499.8
215	vs. 439.0 _{gms} ; $t(37) = 2.1$, $p = .02$). This was a 12% increase in food consumed compared
216	to when patrons received a North Dakota labeled wine.
217	[Insert Table 1]
218	When combining the total grams of food and wine consumed, those who received
219	a California-labeled wine also consumed more total grams (entrée and wine combined)
220	during dinner than those receiving a North Dakota labeled wine (600.6_{gms} vs. 549.4 _{gms} ; t
221	(37) = 1.8, p = .08). However, there were no differences in wine consumption across
222	both conditions. As Table 1 indicates, most of the patrons in both conditions consumed
223	nearly all of the wine given to them, $t(37) = 1.52$, $p = n.s$.
224	Those who were poured wine from bottles with California labels lingered at their
225	tables for an average of 64.4 minutes (SD = 19.1) compared to the 54.9 minutes (SD =
226	12.6) spent eating by those who were given North Dakota wine. While this is a 17%
227	increase in table time, it is not clear whether this difference in time can be attributed to a
228	longer dining time or to a longer leisure time at the table. Furthermore, because most
229	individuals leave a restaurant table simultaneously (12), when the analysis is conducted at
230	the table level $(n = 16)$ versus the individual level $(n = 39)$, there is insufficient power for
231	the results to be statistically significant.
232	

5.2. Social facilitation as a potential confounding variable of grams eaten

In social environments, the amount of food one consumes can be influenced by one's eating companions [12]. In this study, it may be how much one ate or drank could be attributed to the people around them in addition to their expectations of the quality of the meal (their confirmation bias). To determine if this was the case, we created two new variables that would allow us to test for this possibility [16].

239 The first variable ("similarity") was created to account for the similarity of eating 240 within tables. This was done by computing the inverse of the standard deviation of grams 241 eaten by individuals at a particular table. Because we took the inverse of the standard 242 deviation, higher values in this variable indicate how similar (rather than how different) 243 consumption is within a particular table. To account for one-person tables, we fixed 244 scores of these individuals in the "similarity" variable to zero, which represents no social 245 facilitation of consumption. However, to be able to specifically test the situation where 246 social facilitation could not occur (1 person at a table) and where it could occur (2 or 247 more people at a table), we created a second variable.

The second variable ("alone") was created to account for the absence of social facilitation or when there was only 1 person eating at a particular table. Whereas the first variable ("similarity") was created to specifically account for how similar or different eating behavior was within a particular table, the second variable ("alone") was created to specifically account for the possibility of social facilitation. This was done by creating a dummy variable that simply coded participants as 0 (more than one person eating at a table) or 1 (1 person eating at a table).

The variables 1 ("similarity"), 2 ("alone": 0=two or more people; 1=one person), 3 ("state":1= ND; 2=CA), were simultaneously regressed on grams eaten along with

267	[Insert Table 2]
266	1.2, p = .34.
265	regression equation with "state," the overall model is not significant, $R^2 = .16$, $F(5, 33) =$
264	eaten. In fact, when "similarity," "alone," "time," and "sex" are included in the multiple
263	nor "sex," $\beta_{sex} = .18$, $t (33) = 1.04$, $p = .31$, were found to uniquely predict grams of food
262	= .55, "alone," $\beta_{alone} = .08$, $t (33) = .47$, $p = .64$, "time," $\beta_{time} = .01$, $t (33) = .04$, $p = .97$,
261	2.25, $p = .03$ (see Table 2). However, neither "similarity," $\beta_{\text{similarity}} =10$, $t(33) =61$, p
260	California labeled-wine in contrast to a North Dakota-labeled wine, $\beta_{\text{state}} = .38$, $t(33) =$
259	possibility of social facilitation ("alone"), patrons still ate more when receiving a
258	for possible associated eating behavior within specific tables ("similarity"), and the
257	"time" (time spent eating) and "sex" (1=male; 2=female). Even after accounting for the

268 A similar analysis was then done with the total grams consumed (food plus wine), 269 and similar results were found. When controlling for possible associated eating behavior within specific tables ("similarity"), the possibility of social facilitation ("alone") and 270 271 other potential confounding variables ("time" and "sex"), the perceived source of the wine predicted total consumption better than any other variable, $\beta_{\text{state}} = .33$, t(33) = -1.8, 272 p = .08 (see Table 2). However, neither "similarity," $\beta_{\text{similarity}} = -.13$, t(33) = -.71, p = .48, 273 "alone," $\beta_{alone} = .10, t (33) = .56, p = .58,$ "time," $\beta_{time} = .03, t (33) = .14, p = .89,$ nor 274 "sex," $\beta_{sex} = .17$, t(33) = .98, p = .34, were found to uniquely predict grams of food eaten. 275 In fact, when "similarity," "alone," "time," and "sex" are included in the multiple 276 regression equation with "state," the overall model is not significant, $R^2 = .12$, F(5, 33) =277 278 .92, p = .48.

279 **6. Discussion**

These findings not only underscore how expectations influence one's taste ratings of an accompanying food (Study 1), they also show how these expectations influence its consumption (Study 2). These two studies suggest how a confirmation bias – instigated by positive expectations based on a quality cue – could increase consumption of a target food and of a companion food.

Environmental cues of quality, such as a wine label, may provide a positive expectation for not only the wine but for accompanying food as well. Based on these expectations, as long as the wine or food were not radically different from expectations of taste [8], patrons may believe the wine and food to be better and subsequently drink and eat more of it. As reported, patrons who were given California labeled wine (as compared to North Dakota labeled wine) generally consumed more total grams during dinner and, specifically, more grams of their entree.

While evidence of this confirmation bias supports the results for food intake, the results for wine intake do not. However, there was a restricted range of how much wine a patron was allowed to drink (one glass). Patrons may have drunk more wine as a function of wine quality cues (CA label) had they been offered the opportunity.

Favorable expectations generated by wine labels could encourage more wine intake, which could lead to less self-restraint and more food intake [11]. Since patrons were offered a restricted amount of wine, further research could lift this ceiling. Allowing for unconstrained wine intake could result in a more sensitive test for understanding if variations in the amount of wine consumed is related to consuming more or less of food because of increased or decreased inhibitions. At least in this study, increased food intake was suggested to be related to higher expectations of wine (created by cues of a

wine's quality) and not significantly decreasing inhibitions because patrons wererestricted to one glass of wine.

305 Favorable expectations created from cues of a wine's quality could also favorably 306 increase expectations of one's dining experience and subsequently lengthen one's 307 mealtime. In a wide range of studies, increased enjoyment with one's dining experience 308 has been shown to be correlated with intake [3]. When examining the amount of time 309 eating dinner, those who believed they were drinking wine from California stayed nearly 310 ten minutes longer for dinner than those who believed they were drinking wine from 311 North Dakota (64.4 vs. 54.9 minutes). This suggests that possibility of high expectations 312 of wine influencing one's enjoyment of the meal resulting in longer meal times.

313

314 6.1. Limitations and Future Research

315 We measured taste expectations and taste experiences with wine and cheese in 316 Study 1 by asking participants to indicate how "tasty" they expected the wine to be, how 317 "tasty" the wine actually was, and how "tasty" the cheese was. Our intent in using the 318 term "tasty" was to obtain a global evaluation of the gustatory expectation and experience 319 with the wine and cheese. This intent may not have been realized. That is "tasty" can 320 have a number of interpretations other than what we intended. "Tasty" can also refer to 321 flavor, which is the combination of gustatory and olfactory experiences with food. Also, 322 "tasty" can refer to affective judgments of a food based upon its flavor. Thus, "tasty" 323 may not be a pure evaluation of a person's gustatory experience with a food. 324 Nevertheless, the term "tasty" does not exclude gustatory experiences with food, but 325 better gustatory evaluative terms could be used in future research.

326 In order to unobtrusively examine food intake, the decision was made to conduct 327 the expectation measurement study independently of the intake study. As a result, Study 328 1 provides evidence of the expectation and evaluation bias, while Study 2 provides 329 evidence of the intake bias. Similarly, it was believed that a post-hoc measurement of 330 initial expectations (one that followed food consumption) might not be an accurate 331 reflection of pre-consumption expectations of wine. Although these patrons received 332 complimentary wine, another way that expectations could have been manipulated is 333 through the price of a wine. While this would be a realistic scenario for a restaurant, 334 such a procedure would have created a selection bias in the lab. Those people who 335 bought the less expensive wine might be very different than those willing to spend more 336 money on a glass.

337 An important issue with all field studies is how social facilitation might influence 338 behavior. In Study 2, social facilitation (as measured by similarity of eating) did not 339 overshadow the influence on expectations on consumption. This is not to say that social 340 facilitation does not play an important part in food consumption, but rather it was not a 341 major influence in this study about expectations. This study included tables of 1 (n = 4), 342 2 (n = 8), 3 (n = 1), 4 (n = 1), and 9 (n = 1). Further research could include larger 343 samples to understand how consumption can be influenced by the interplay between 344 social facilitation and environmental cues (wine labels) that lead to confirming (rather 345 than disconfirming) expectations about a wine and a companion food.

6.2. Conclusion

347 It is well known that physiology influences how much we eat. In addition to348 physiology, psychological processes may also influence how much we eat [4, 17].

349 Expectations piqued by environmental cues can have a referred impact on companion 350 food intake that has not previously been expected. Environmental cues, such as the label 351 on a wine bottle, may bias how much one consumes of companion foods during a meal. 352 These cues of quality can take many forms, including price, labels, appearance, or 353 name. Furthermore, it might be that even unrelated atmospheric cues – such as 354 ambience, lighting, and sounds – can creative expectations and generate an intake bias. 355 Our ever-widening awareness of the range, form, and impact of these environmental cues 356 will become increasingly useful in helping us better predict and improve our behavior as 357 it relates to food intake.

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Diners Given Wine with a "California" Label (n = 24)	Diners Given Wine with a "North Dakota" Label (n = 15)	t - value
499.8 (87.2)	439.0 (89.2)	2.1**
100.8 (23.3)	110.4 (9.0)	-1.5
600.6 (84.9)	549.4 (90.2)	1.8*
	Wine with a "California" Label (n = 24) 499.8 (87.2) 100.8 (23.3) 600.6 (84.9)	Wine with a "California" Label $(n = 24)$ Wine with a "North Dakota" Label $(n = 15)$ 499.8 (87.2)439.0 (87.2)100.8 (23.3)110.4 (23.3)600.6 (84.9)549.4 (90.2)

	State (ND/CA)	Similarity	Alone	Time	Sex	R ²
Entrée Consumed (g)	.38**	15	.10	.01	.18	.10
Total Consumption (g) *p < .10; **p < .05	.33*	13	.10	.03	.17	.12

Figure 1. Wine Labels Can Bias Expectations and Tastiness Ratings of Both Wine and Cheese

