



Short Communication

Ethnic congruence of music and food affects food selection but not liking



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ABSTRACT

Research investigating whether hearing a particular type of ethnic music will influence people to choose food from that same culture has found mixed results. Some studies found that when given a selection of different ethnic foods subjects were more likely to choose the food that was typical of the culture whose music was playing. Other studies have found no effect. The present study investigated the effect of instrumental Italian or Spanish music played in a university dining hall on the selection of either an Italian (chicken parmesan) or a Spanish (seafood paella) entrée. On two different nights both the Italian and Spanish entrée were available and students could select from those two entrees or other food choices. Italian music was played on one night and Spanish on another. The number of people who chose the two entrees was recorded on both nights. In addition, the hedonic ratings of the two entrees were obtained when either congruent or incongruent music was being played during the meal. On both nights more people chose the chicken parmesan than chose the seafood paella. However, there was a significant effect of the music on food choice. A significantly greater proportion of diners selected the paella over the chicken parmesan on the night when the Spanish music was played (34%) than on the night when the Italian music was played (17%). There was no effect of the type of music on liking for the food, possibly because the music was not as loud where diners were eating as where they ordered.

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1. Introduction

Music is a part of the “ambience” of a restaurant, along with the décor, lighting, temperature, and other environmental components. Recent research has found that the choice of music played in a restaurant might have a significant impact on the diners in a number of ways. For example, music has been found to affect speed of eating (Caldwell & Hibbert, 2002; Milliman, 1986; Roballey et al., 1985). In addition, classical music increases the amount of money diners spend on food (North & Hargreaves, 1998; North, Shilcock, & Hargreaves, 2003).

The perceived pleasantness of food can also be affected by music. In general, food is rated as more pleasant when it is consumed while listening to music the subject rates as pleasant and food is rated as less pleasant when consumed while listening to unpleasant music (Kantono et al., 2015, 2016). However, what music is considered pleasant might be context specific. Music that is pleasant in a nightclub might not be pleasant in a coffee house. In a similar vein, a certain type of music might be pleasant if it is appropriate for the restaurant in which it is played but unpleasant

if it is inappropriate. Patrons might expect, and enjoy hearing, reggae music in a Jamaican restaurant but not in a French restaurant. These contextual preferences based on ethnicity might affect liking for the food consumed while listening to that music. Listening to Bob Marley might make jerk chicken taste better but coq au vin taste worse. That is, if the music in a restaurant is ethnically congruent with the food served, then liking for that food might be enhanced.

In addition to affecting how much a food is liked, hearing a particular kind of music prior to consumption of food in a restaurant might also affect food choice. Patrons might be predisposed to choose food that is congruent with the music being played. The findings that more expensive food and wine are chosen when classical music is being played (Areni & Kim, 1993; North & Hargreaves, 1998) might be examples of such an effect. Thinking that classical music is associated with having a lot of money might lead one to choose food that one imagines would be eaten by people who listen to such music (i.e., the more expensive things on the menu).

A similar predisposition might occur with ethnic music which might call to mind other aspects of that particular culture (i.e., priming of that culture would occur). In research (Bell, Meiselman, Pierson, & Reeve, 1994) conducted in a restaurant, environmental cues other than music (i.e., an Italian décor and Ital-

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ian food names) increased selection of food rated as more Italian (e.g., spaghetti and macaroni). Music, like décor, which is associated with a particular culture should call to mind other aspects of that culture, including its food, which might increase selection of that particular food. Such effects have been found with selections of either German or French wine in a wine store (North, Hargreaves, & McKendrick, 1997, 1999). People purchased more German wine than French wine when German music was played and more French wine than German when French music was played.

While no studies have looked at the effect of music on food choice in a restaurant setting, a number of laboratory studies have suggested that ethnic music might affect food selection in a restaurant. In one laboratory study conducted with Scottish undergraduates (North, Sheridan, & Areni, 2016, Experiment 1), subjects were asked to choose a dish they would order from a menu containing equal numbers of dishes perceived to be American, Chinese or Indian while background music was playing. They tended to choose a dish that was associated with the same country as the music that was playing when they made their selection. Another laboratory study (Yeoh & North, 2010, Experiment 2) conducted in Malaysia (a country with three distinct ethnic groups – Malay, Indian, Chinese) had subjects choose between a Malay and an Indian snack food as a reward for solving math problems in what they thought was a math study. Subjects choose the Malay snack if they had been listening to Malay music and the Indian snack if they had been listening to Indian music. However, this was only true among the subjects who were ethnically Chinese and not ethnically Malaysian or Indian. Those latter subjects chose foods common to their own culture.

Selecting food that is congruent with the music one is hearing might be caused by priming of the culture from which it comes. This tendency to choose food congruent with the music might lead to diners enjoying the food more than they would have, had they chosen a food not congruent with the music. That is, listening to music congruent with the food might increase liking for the food.

The present study investigated the influence of ethnic music on both food choice and liking for ethnic food in a restaurant setting. The restaurant was a university dining hall in the USA where it is common to have food selections available on the menu from a number of different cultures. The choice of two different entrees (chicken parmesan and seafood paella) from two different cultures (Italian and Spanish) was recorded on nights when either Italian or Spanish music was played. It was predicted that hearing Italian music would increase the proportion of people choosing the Italian entrée and hearing Spanish music would increase the proportion of people choosing the Spanish entrée. In addition, liking for the two entrees among those eating those entrees was recorded when the two different types of music was played. It was hypothesized that the food would be liked more on the night when the ethnically congruent music was played compared to when the incongruent music was played.

2. Method

2.1. Subjects

Subjects in the selection part of the study were 275 Montclair State University students and staff who had dinner on one of two nights (156 on one night and 119 on the other) and chose an entrée of either chicken parmesan or seafood paella. A subset of these subjects, 86 (43 on each night) participated in the hedonic evaluation part of the study. These subjects met the above criteria and also completed and returned a questionnaire concerning their

meal. 36 male, 46 female, and 4 unknown gender subjects participated. Their mean age was 19.4 (SD = 1.5) years.

The dining hall is located in a campus dormitory located near the Music building. The diners in that dining hall are mostly students and staff from that dormitory or students and staff from the Music building. The composition of diners varies little from day to day.

The study was approved by the Montclair State University Institutional Review Board.

2.2. Music

All music was played on an mp3 portable sound system (Ion Tailgater Active stereo) which was positioned near the entrance to the dining hall where subjects ordered their meal. The music for the Spanish-themed night consisted of selections of Spanish Flamenco style guitar music. The music for the Italian-themed night consisted of Sicilian and Venetian music predominantly played on mandolin, guitar and accordion.

2.3. Food

Food was chicken parmesan and seafood paella prepared by the staff at the university dining hall. Both entrees were among the selection of entrees normally served in this dining hall.

2.4. Questionnaire

The questionnaire asked subjects' gender and age. It then asked if they had selected an entrée and if so what it was. They were then asked why they chose the entrée and to rate how much they liked it by giving it a number from a 201-point bipolar hedonic scale where -100 was labeled as "most unpleasant taste imaginable", 0 as "neither pleasant nor unpleasant", and +100 as "most pleasant taste imaginable".

2.5. Procedure

The study took place in the university dining hall on two different nights two weeks apart. The two nights were in the autumn during the middle of the semester. Both the chicken parmesan and seafood paella were available entrees on those two nights along with other options. The two target entrees were listed among the entrees on touch screen ordering kiosks located in the entrance to the dining room. Subjects entered their selection into the kiosk and obtained an electronic buzzer which notified them when their food was ready to be picked up. Although music was not usually played in the dining hall, music was playing near the kiosks in the entrance to the dining room as subjects entered and continued playing throughout the dinner period (4–8 pm). Since the music was novel we only presented Spanish and Italian music on one night each. We were concerned that by presenting the same music with the same foods on two different nights our subjects would figure out the purpose of the music and that would influence our results. Therefore, on the first night Italian music was played and on the second night Spanish music was played. Which type of music played on which night was determined by a coin toss.

Researchers approached diners after they received their entrée and asked them to fill out the questionnaire concerning their dining experience. They were given the questionnaire and a pencil and were asked to return the completed questionnaire and the pencil in a box located at the exit as they left the dining hall. Counts of how many people ordered chicken parmesan and seafood paella on both nights (Italian music and Spanish music nights) was obtained from the kiosk data.

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