Where Do My Emotions Belong? A Study of Immigrants’ Emotional Acculturation

Jozefien De Leersnyder1, Batja Mesquita1, and Heejung S. Kim2

Abstract
The emotional experiences of people who live together tend to be similar; this is true not only for dyads and groups but also for cultures. It raises the question of whether immigrants’ emotions become more similar to host culture patterns of emotional experience; do emotions acculturate? Two studies, on Korean immigrants in the United States (Study 1) and on Turkish immigrants in Belgium (Study 2), measured emotional experiences of immigrants and host group members with the Emotional Patterns Questionnaire. To obtain a measure of the immigrants’ emotional similarity to the host group, their individual emotional patterns were correlated to the average pattern of the host group. Immigrants’ exposure to and engagement in the host culture, but not their acculturation attitudes, predicted emotional acculturation.

Keywords
culture, emotion, acculturation, emotional similarity, implicit measure

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People who live together, interact, or cooperate tend to become more emotionally similar over time: Roommates, romantic couples, teams, and group members grow emotionally more alike (e.g., Anderson, Keltner, & John, 2003; Totterdell, 2000). Thus, people’s emotions become attuned to their enduring social relationships.

Similarly, people who engage in the same cultural contexts share patterns of emotions: The frequencies and intensities of their emotions converge. For instance, research has found that people living in a North American context report high frequencies of socially disengaging emotions (e.g., pride and anger) and relatively low rates of socially engaging emotions (e.g., sympathy and shame), whereas people living in a Japanese context report high frequencies of engaging and low rates of disengaging emotions (Kitayama, Mesquita, & Karasawa, 2006).

Whether a person experiences a specific emotion frequently or rarely seems to be systematically related to his or her culture’s core meanings and practices (Markus & Kitayama, 1994; Mesquita & Leu, 2007). For example, anger (an emotion by which a person claims power and control in a relationship) is readily experienced in cultural groups in which autonomy, independence, power, and control are central (Tiedens, 2001); by contrast, anger is rarely experienced in cultures that value harmony and equality in relationships and that, therefore, consider anger an immature, dangerous, or merely inappropriate emotion (Briggs, 1970). These studies also imply that in addition to the frequency and intensity of experiencing specific emotions, the meaning and association of these emotions differ across cultures. That is, even the same emotion, such as anger, seems to be experienced differently across cultures. In a culture that emphasizes independence and personal control, anger would be experienced with a feeling of being in control, but in a culture that emphasizes interdependence, anger would be experienced with a feeling of guilt. Similarly, high arousal emotions, such as excitement, may be experienced positively in a culture in which personal agency is valued but more negatively in a culture in which social harmony is valued (Tsai, Knutson, & Fung, 2006).

Therefore, people embody cultural ideas in the form of emotions (Bruner, 1996): Their emotional patterns express and reinforce the prevalent meanings and practices in their cultural contexts and, therefore, implicitly signal their sociocultural affiliations. People’s fit with the modal emotional pattern of the culture in which they engage may thus reflect their levels of sharing and participation in the culture’s meanings and practices. We expect that emotional fit may facilitate a person’s...
navigation in his or her social world and thus will benefit that person’s well-being. This is consistent with the findings that emotionally similar teams and groups tend to be closer, happier, and more identified than more divergent groups (Smith, Seger, & Mackie, 2007; Totterdell, Kellett, Briner, & Teuchmann, 1998) and that emotional similarity in married or dating couples is associated with relationship satisfaction (e.g., Anderson et al., 2003). It is also supported by the finding in the research described earlier (Kitayama et al., 2006) that Japanese respondents who reported more socially engaging and American respondents who reported more socially disengaging emotions tended to be happy. Emotional concordance may thus be a measure of (social) adjustment.

The central question of this research is to what extent emotions acculturate: To what degree and under which circumstances do immigrants’ emotional patterns become more similar to the emotional patterns of the majority group of their country? Based on the research that shows that emotional experiences grow more alike among couples, teams, and group members (e.g., Anderson et al., 2003; Totterdell, 2000), we expect that people’s emotional patterns change in response to their engagement in a (new) cultural context. Although there is a large body of research on acculturation (e.g., Berry, Phinney, Sam, & Vedder, 2006; Ryder, Alden, & Paulhus, 2000; Ward, Bochner, & Furnham, 2001), most of it has been concerned with sociocultural and health outcomes and the particular acculturation strategies associated with them (Berry & Kim, 1988; Myers & Rodriguez, 2002). To date, there has been little focus on the acculturation of core psychological processes themselves, such as cognition, motivation, and emotion (for an exception on the acculturation of self-esteem, see Heine & Lehman, 2004). The current research is on emotional acculturation, which, just like other types of psychological acculturation, may consist of “psychological changes and eventual outcomes” that result from a person’s encounters with another culture (Berry & Sam, 1997, p. 293). Emotional acculturation thus refers to changes in emotional patterns due to an immigrant’s exposure to and contact with a new or second cultural context.

We adopt a cultural psychology perspective on acculturation in which psychological processes are seen as mutually constitutive with cultural meanings and practices (Fiske, Kitayama, Markus, & Nisbett, 1998; Markus & Kitayama, 2004; Shweder & Sullivan, 1995). In this view, contact with a new culture may lead to changes in all aspects of people’s psyches: People’s psychological processes themselves, and their emotional experiences in particular, may thus be a function of acculturation. Since emotions imply sociocultural affiliation, the fit or similarity between an immigrant’s emotional pattern and the one typical of the host culture reflects that immigrant’s internalization of the new culture; we refer to this fit as emotional concordance.

We aimed to measure emotional acculturation in an implicit manner. Rather than asking for a self-report of perceived emotional concordance, we measure the actual concordance between immigrants’ emotional patterns and the average emotional pattern of a host culture sample. Thus, although we hypothesize that immigrants who engage in the meanings and practices of the new culture internalize this new culture, immigrants are less likely to be aware of this change. Therefore, emotional acculturation may not be accompanied by changes in the attitudes toward or in the identification with the new culture. “Self-categorization [as a member of the heritage culture] persists long after the individual has made the necessary cultural adaptations for effective living” (Hutnik, 1991, p. 159); conversely, immigrants who claim to be a member of the new (and desired) host group may not have internalized the host culture’s meanings and emotions. It is possible, for instance, that a second-generation Turkish immigrant in Belgium strongly identifies as a member of Turkish culture, whereas her emotional experiences have come to reflect more closely those of fellow Belgians. Thus, our implicit measure of emotional acculturation captures a process of acculturation that is related to yet distinct from more explicit measures of acculturation.

To investigate the phenomenon of emotional acculturation, we measured immigrants’ emotional concordance to the host culture. We examined to what extent this emotional concordance could be predicted by immigrants’ exposure to and engagement in the host culture. A first study focused on Korean immigrants in the United States; a second study focused on Turkish immigrants and biculturals in Belgium. To measure emotional concordance, we developed the Emotional Patterns Questionnaire (EPQ), which prompts immigrants to describe their emotional experience and then compares the patterns of answers with those of an average mainstream sample. The EPQ is an implicit measure of acculturation to the host culture because respondents rate their own emotions without being aware of the average mainstream pattern. The EPQ may, therefore, be less susceptible to self-presentational biases than other acculturation scales, in which respondents are explicitly asked about their attitudes and preferences.

The main hypotheses were that immigrants’ emotional concordance is associated with (a) their exposure to mainstream culture and (b) their engagement in relationships with members of the host culture. Consistent with the literature on emotional similarity in dyads and teams, we expected that more time spent in the new culture and a higher involvement with people from the mainstream culture both predict emotional concordance. Finally, we explored the relationship between our implicit measure of acculturation and explicit measures of adoption of the host culture.2

Study I

In Study I we examined emotional acculturation in Korean immigrants in the United States; European Americans constituted the mainstream standard of comparison. Koreans were selected because (a) East Asian and mainstream European American emotional patterns have been shown to differ markedly (e.g., Kitayama, Markus, & Kurokawa, 2000), rendering any acculturative shifts visible, and (b) Koreans have demographics (education, employment) comparable to those of
mainstream European Americans (Terrazas, 2009), facilitating the comparison.

**Method**

**Participants.** A total of 47 Korean immigrants and 44 European Americans who lived in Southern California communities participated in the study. The samples did not differ in gender composition (46% female) or mean age ($M = 37$, $SD = 14$). However, a higher proportion of Koreans (86%) than European Americans (60%) were college educated, $\chi^2 = 7.166, p = .007$. The majority of Korean participants (72%) consisted of first-generation immigrants who had lived in the United States for an average of 21.41 years ($SD = 16.39$), which was about half of their lives (proportion of life spent in the United States, $M = 0.54$, $SD = 0.34$).

**Materials and procedure: Emotional Patterns Questionnaire (EPQ).** To measure emotional concordance, we developed the EPQ. The EPQ prompts participants to describe a recently encountered situation that elicited one of four classes of emotions (positive engaged, positive disengaged, negative engaged, negative disengaged) that together constitute the domain of emotional experience in both North American and East Asian contexts (Kitayama et al., 2000; Kitayama et al., 2006). Moreover, the EPQ was administered for two relationship contexts: family and work or school. Participants first reported a situation from their recent past that matched the prompt (e.g., “a recent occasion at home or with your family in which you felt good about yourself” as a prompt for positive disengaged emotions in a family context). In each condition, participants then rated the reported experience on the same 20 emotion items ($1 = \text{not at all}, 7 = \text{extremely}$). These 20 items were chosen to represent a broad range of emotional experiences and represented different positions on the valence, arousal, and social engagement dimensions (Kitayama et al., 2000; Russell & Barrett, 1999). A content check confirmed that the situations described were consistent with the prompt. Moreover, a manipulation check confirmed that, in the large majority of cases, the reported emotions matched the one called for in the situation description. This was true for both cultural groups (see Table 1).

Emotional concordance with the host culture was calculated for each type of emotional situation × relationship context (e.g., positive disengaged in family context) separately. We first calculated the average host culture ratings for the 20 individual emotions, the so-called host culture’s emotional pattern. We then correlated each person’s emotional pattern (i.e., the ratings on each of the 20 emotions) to the average host culture’s emotional pattern. This correlation is the person’s emotional concordance score, that is, the similarity between the person’s emotional pattern and the mean pattern of the host group for a particular type of emotional situation in a particular relationship context (see Figure 1 for two examples of emotional concordance). To calculate the emotional concordance of European American respondents, we corrected the average host culture’s pattern by excluding the respondents’ own scores. Because each participant completed two versions of the EPQ—one for each relationship context—we also calculated emotional concordance by respondent, by averaging each respondent’s scores across the two social contexts. To test the hypotheses, we transformed the emotional concordance scores into Fisher’s $z$ scores.

One of the sources of differences in emotional patterns may be that the emotion words included have different meanings across cultures. To check the structural equivalence of the 20 emotion items, we conducted a simultaneous component analysis (Kiers, 1990). Three factors emerged, reflecting (a) positive emotions (interested, strong, proud, close, respect, helpful), (b) negative engaged emotions (guilty, ashamed, afraid, indebted, worthless, embarrassed), and (c) negative disengaged emotions (upset, irritable, bored, ill feelings, resigned). The common factor solution explained 59% and 51% of the variance in the Korean and European American samples, respectively. Based on the factor solution, we recalculated emotional concordance, excluding 3 of the original 20 emotion items from further analyses (i.e., jealous, relying, surprised); these items loaded differently in the Korean and the European American solutions, suggesting cross-cultural differences in their precise meaning.

The results are reported based on this 17-item measure of emotional concordance. Emotional concordance based on 20 items yielded largely the same results; any differences with the 17-item solution are reported in the notes.

**Materials and procedure: Acculturation measures.** Our primary measure of exposure to North American culture was the proportion of life spent in host culture, which we calculated by dividing the number of years spent in the United States by the actual age of the respondent. This measure was chosen because, in contrast to the number of years spent in the host culture, it is meaningful irrespective of the actual age of the immigrant. To increase comparability with other studies on acculturation, we also report analyses that are based on the number of years spent in the host culture and the age of immigration.

A four-item scale measured the degree of social contact with members of the host group ($\alpha = .63$). It consisted of one item on English language use—scale ranging from 1 (I speak Korean all the time) to 5 (I speak English all the time)—and three items on the ethnicity of friends, colleagues, and neighbors—scale from 1 (heritage culture only) to 5 (Euro-Americans only). Korean immigrants in the United States had an average contact level with European Americans of 3.05 ($SD = 0.87$) on a scale from 1 to 5.

Two scales measured attitudes toward adoption of mainstream values and customs (four items, $\alpha = .69$) and attitudes toward social contacts with members of the host group (four items, $\alpha = .83$). The items for these explicit measures of acculturation were taken from the Vancouver Index of Acculturation (VIA; Ryder et al., 2000) and were rated on scales from 1 (totally disagree) to 9 (totally agree). Attitudes toward adoption of mainstream values and customs consisted of the following four items: (a) “I often participate in mainstream North American cultural traditions,” (b) “I often behave in ways that are ‘typically’ North American,” (c) “It is important for me to maintain or develop
Table 1. Manipulation Check: Mean Emotions Across Different Types of Emotional Situations

<table>
<thead>
<tr>
<th>Situational prompt</th>
<th>Emotion scale</th>
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<tr>
<td></td>
<td>Positive</td>
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<tr>
<td></td>
<td>disengaged</td>
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<tr>
<td>Study 1</td>
<td></td>
</tr>
<tr>
<td>Positive engaged</td>
<td>4.22 a</td>
</tr>
<tr>
<td>Positive disengaged</td>
<td>4.70 b</td>
</tr>
<tr>
<td>Negative engaged</td>
<td>3.77 b</td>
</tr>
<tr>
<td>Negative disengaged</td>
<td>3.73 b</td>
</tr>
<tr>
<td>Study 2</td>
<td></td>
</tr>
<tr>
<td>Positive disengaged</td>
<td>4.82 a</td>
</tr>
<tr>
<td>Positive engaged</td>
<td>5.35</td>
</tr>
<tr>
<td>Negative disengaged</td>
<td>3.25 b</td>
</tr>
<tr>
<td>Negative engaged</td>
<td>2.97</td>
</tr>
<tr>
<td>Study 2a</td>
<td></td>
</tr>
<tr>
<td>Positive disengaged</td>
<td>4.62 a</td>
</tr>
<tr>
<td>Positive engaged</td>
<td>5.50 bc</td>
</tr>
<tr>
<td>Negative disengaged</td>
<td>2.80 b</td>
</tr>
<tr>
<td>Negative engaged</td>
<td>2.12 b</td>
</tr>
</tbody>
</table>

Note: Means of emotional experiences on a scale from 1 (not at all) to 7 (extremely). Bold emotion scales match the prompt. Superscripts indicate significant differences at $p < .05$. The means reported for Study 2a include the Belgian student sample only. Within each study, there were no cultural differences except for the negative disengaged situation in Study 1: Korean ratings of negative disengaged emotions were higher than ratings for all other types of emotions; this was not the case for European Americans.

North American cultural practices,” and (d) “I believe in mainstream North American values.” Attitudes toward social contacts with members of the host group included (a) “I would be willing to marry a North American person,” (b) “I enjoy social activities with typical North American people,” (c) “I am comfortable working with typical North American people,” and (d) “I am interested in having North American friends.”

Although adoption of the mainstream culture is a single scale of the VISA, recent research has suggested that attitudes toward values and customs may be acquired at a different stage than attitudes toward contacts with the members of the cultural majority (Snauwaert, Soenens, Vanbeselare, & Boen, 2003). Therefore, we created two scales corresponding to these two aspects of acculturation.

Participants also completed a demographic questionnaire.

Procedure. Questionnaires were translated from English into Korean and back-translated into English by bilingual researchers. Research assistants recruited the participants in public places, such as malls, churches, and coffee shops. Korean respondents were approached by bicultural research assistants. Each participant received two EPQs that both pertained to the same type of emotion (e.g., positive disengaged), one for the work or school context and one for the family context.

Results and Discussion

Group difference in emotional concordance. Emotional concordance can be meaningfully considered a measure of acculturation only if it is higher for mainstream Americans than Koreans. We first checked if this condition was met. To consider the possibility that emotional concordance was, furthermore, moderated either by type of emotion or by relationship context, we conducted a Culture (European American, Korean first generation, Korean later generation) × Valence (positive, negative) × Engagement (socially engaged, disengaged) repeated measures ANOVA with (Fisher-transformed) emotional concordance in each relationship context (school or work, family) as the repeated dependent variables.

The results yielded a main effect of culture, $F(2, 66) = 5.139, p = .007, \eta_p^2 = .139$, which we further analyzed using planned contrasts. European Americans ($M = .75, SD = .054$; mean $r = .64$) were in fact more emotionally concordant than first-generation Korean immigrants ($M = .55, SD = .056$; mean $r = .50$; contrast estimate = −.20, $p = .015$) but did not differ significantly from Korean Americans who were born in the United States ($M = .87, SD = .096$; mean $r = .70$; contrast estimate = .12, $p = .273$). This main effect was further qualified by the type of emotional situation, as indicated by a significant three-way interaction among Culture, Valence, and Engagement, $F(2, 66) = 4.022, p = .022, \eta_p^2 = .109$. Follow-up tests showed that first-generation Koreans’ emotional concordance scores were significantly lower than those of later-generation Koreans and North Americans in positive disengaged ($p < .05$) and negative engaged emotional situations only ($p < .05$). Furthermore, across cultural groups, emotional concordance was higher in positive ($M = 1.05, SD = .058$; mean $r = .78$) than in negative ($M = .41, SD = .059$; mean $r = .39$) situations, $F(1, 66) = 59.491, p \leq .001, \eta_p^2 = .474$. There were no differences in emotional concordance between relationship contexts; these contexts are collapsed in the remainder of the results section.

Emotional concordance and contact with the host culture. To investigate the different predictors of emotional concordance...
Figure 1. Graphical representation of the concordance between emotional patterns of two individual immigrants and the average Belgian emotional pattern.
(proportion of life spent in the United States, number of years in the United States (after controlling for age), age of immigration, and social contact with members of the mainstream culture) among Korean immigrants, we conducted four separate multiple hierarchical regression analyses. In each regression analysis, we controlled for valence and engagement as they were found to interact with the cultural differences in emotional concordance, and for educational attainment because the European American and Korean samples differed with respect to education. In the last step of each analysis, we entered the interactions between the predictor of interest and educational attainment and the predictor of interest and valence (Table 2, Panel A).

This study provided support for the notion of emotional acculturation: Korean immigrants’ concordance with the mean U.S. emotional pattern was associated with the proportion of life spent in the United States (Analysis 1). The emotional concordance of a second-generation (or later) immigrant (proportion of life spent in the United States = 100%) is .56 higher than that of a newly arrived immigrant (proportion of life spent in the United States = 0%). Similarly, for each year the immigrant had spent in the United States, his or her emotional concordance increased with .011 (Analysis 2). Furthermore, the younger the age of immigration, the higher the immigrant’s emotional concordance with the host culture (Analysis 3). Also consistent with our hypothesis, the level of social contact with people from the mainstream culture was positively associated with the immigrant’s emotional concordance (Analysis 4).

Emotional concordance and explicit measures of psychological acculturation. To examine whether emotional concordance was related to explicit measures of acculturation, we conducted another regression analysis, again controlling for valence and engagement (Analysis 5). Although there were no differences between mean levels on these explicit measures of acculturation (attitudes toward the adoption of U.S. values and customs: M = 5.37, SD = 1.33; attitudes toward social contacts with European Americans: M = 5.37, SD = 2.03), r(43) = 0.06, p = .953, positive attitudes toward contact with mainstream people significantly predicted emotional concordance, whereas attitudes toward the adoption of values and customs did not.

Study 2

Study 2 extended Study 1 to Turkish immigrant groups in Flanders, the Dutch-language part of Belgium; Flemish Belgians served as the standard of comparison. We chose to focus on Turkish immigrant groups because (a) there are marked differences between the emotional experiences of Turkish immigrants and those of mainstream people in the European contexts in which they live (Mesquita, 2001) and (b) the majority of Turkish immigrants in Belgium have relatively low status and educational attainment, which increased the contrast with Koreans in the United States. Within the Turkish group, we sampled second-generation immigrants, in addition to first-generation immigrants. Acculturation research typically includes second-generation immigrants (e.g., Berry et al., 2006) because they live at the intersection of two cultures.

Method

Participants. Participants were 59 first- and 85 second-generation Turkish immigrants. A sample of 83 Flemish Belgians was matched to the Turkish groups on education (27% college educated) and gender composition (54% women). The mean age among the three samples differed, F(2, 222) = 18.729, p ≤ .001 (M = 34, SD = 11.9 for Turkish first generation; M = 26, SD = 6.6 for Turkish second generation, and M = 31, SD = 8.8 for Belgians). For the Turkish immigrants these age differences reflected the differences in actual age compositions between the first and second generations. The first-generation immigrants had lived in Belgium for an average of 13 years (SD = 12.5), which resulted in an average proportion of life spent in Belgium of 0.35 (SD = 0.28).

Materials and procedure: EPQ. The EPQ used in Study 2 was identical to the one used in Study 1. Again, the manipulation check confirmed that the reported emotions were in line with the prompts (see Table 1), and this was true for each cultural group separately. As in Study 1, we computed emotional concordance scores based both on the cross-culturally similar emotion items and on all 20 emotion items. This time, the simultaneous component analysis yielded four common factors that corresponded to the ones intended: positive engaged (interested, close, respect, relying, helpful), positive disengaged (strong, proud, surprised), negative engaged (guilty, ashamed, indebted), and negative disengaged (upset, irritable, afraid, bored, ill feelings, worthless). This solution explained 53%, 55%, and 57% of the variance in the Turkish first-generation immigrant, Turkish second-generation immigrant, and Belgian samples, respectively. Across cultural groups, 17 emotions loaded similarly on the four factors; the other three (feeling resigned, jealous and embarrassed) were excluded from further analyses because these items had different loadings in the three separate solutions, suggesting cross-cultural differences in their precise meaning.

Different from Study 1, respondents in this study reported two emotional instances that pertained to the same relational context and valence but that differed with respect to the social engagement dimension. Accordingly, each person received two emotional concordance scores, one for the engaged, and one for the disengaged emotional situation. We also calculated each person’s emotional concordance by averaging his or her scores across the types of engagement.

Similar to Study 1, we calculated the emotional concordance of Belgian respondents after correcting the average host culture’s pattern for the respondents’ own scores. Furthermore, all emotional concordance scores were transformed into Fisher’s z scores before using them in further analyses.

Materials and procedure: Acculturation measures. As measures of exposure to Belgian culture, we included the proportion of
Table 2. Hierarchical Multiple Regression Analyses Predicting Immigrants’ Emotional Concordance with the Average Mainstream Emotional Pattern

<table>
<thead>
<tr>
<th>Predictor</th>
<th>Analysis 1</th>
<th>Analysis 2</th>
<th>Analysis 3</th>
<th>Analysis 4</th>
</tr>
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<tbody>
<tr>
<td>Step 1</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Valence</td>
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<td>.521***</td>
<td>.500***</td>
<td>.503***</td>
</tr>
<tr>
<td>Engagement</td>
<td>–.642***</td>
<td>–.729***</td>
<td>–.708***</td>
<td>–.723***</td>
</tr>
<tr>
<td>Educational attainment</td>
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<td>–.762***</td>
<td>–.747***</td>
<td>–.763***</td>
</tr>
<tr>
<td>Step 2</td>
<td>.001</td>
<td>.001</td>
<td>.002</td>
<td>.002</td>
</tr>
<tr>
<td>Educational attainment</td>
<td>.105</td>
<td>.060</td>
<td>.063</td>
<td>.066</td>
</tr>
<tr>
<td>Step 3</td>
<td>.135***</td>
<td>.017*</td>
<td>.014*</td>
<td>.057*</td>
</tr>
<tr>
<td>Proportion life in US</td>
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<td>.135*</td>
<td>–.122*</td>
<td>.258*</td>
</tr>
<tr>
<td>Total R²</td>
<td>.668***</td>
<td>.543***</td>
<td>.522***</td>
<td>.519***</td>
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<tr>
<td>Step 1</td>
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<td></td>
</tr>
<tr>
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<td>–.742***</td>
<td>–.708***</td>
<td>–.723***</td>
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<tr>
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<td>–.757***</td>
<td>–.747***</td>
<td>–.763***</td>
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<tr>
<td>Step 2</td>
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<td>.001</td>
<td>.002</td>
<td>.002</td>
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<tr>
<td>Educational attainment</td>
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<td>.048</td>
<td>.063</td>
<td>.066</td>
</tr>
<tr>
<td>Age</td>
<td>–.247†</td>
<td>–.085</td>
<td>–.122*</td>
<td>–.110</td>
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<tr>
<td>Step 4</td>
<td>.073*</td>
<td>.026**</td>
<td>–.089</td>
<td>–.110</td>
</tr>
<tr>
<td>Number of years US</td>
<td>.399*</td>
<td>.229**</td>
<td>.238**</td>
<td>.238**</td>
</tr>
<tr>
<td>Total R²</td>
<td>.636***</td>
<td>.562***</td>
<td>.572***</td>
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<td>–.708***</td>
<td>–.747***</td>
<td>–.763***</td>
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<tr>
<td>Engagement</td>
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<td>–.747***</td>
<td>–.763***</td>
<td>–.763***</td>
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<td>Educational attainment</td>
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<td>.063</td>
<td>.063</td>
<td>.066</td>
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<td>–.089</td>
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<td>Total R²</td>
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<td>.572***</td>
<td>.585***</td>
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<td>Step 1</td>
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<tr>
<td>Valence</td>
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<td>–.723***</td>
<td>–.763***</td>
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<tr>
<td>Engagement</td>
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<td>–.763***</td>
<td>–.763***</td>
<td>–.763***</td>
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<td>.000</td>
<td>.003</td>
<td>.057*</td>
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<tr>
<td>Social Contact</td>
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<td>–.112</td>
<td>–.069</td>
<td>–.112</td>
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<td>Step 4</td>
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<td>.606***</td>
<td>.519***</td>
<td>.585***</td>
<td>.585***</td>
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</table>
(continued)
Panel B: Turkish immigrants in Belgium

Study 2A

Study 2

translated from English into both Dutch and Turkish by bilingual
traditions; Analysis 5: predictors of interest are the direct measures of acculturation, namely, members from the host group; Analysis 3: predictor of interest is the culture, and the age of immigration.

The same scales as in Study 1 were used to measure attitudes toward adoption of mainstream values and customs (Cronbach's $\alpha = .75$) and attitudes toward social contacts with members of the host group (Cronbach's $\alpha = .63$).

The social contacts with members of the host culture scale (Cronbach's $\alpha = .76$) differed from the one used in Study 1 and consisted of seven items on the language used in different social contexts (e.g., with colleagues, neighbors, friends, siblings, children [if they had children], in the street, in shops). Respondents chose from three answer alternatives: 1 = only Turkish, 2 = both Turkish and Dutch, and 3 = only Dutch. Since (a) Belgians do not have any knowledge of Turkish language, (b) Turkish immigrants share no other common language with Belgian people, and (c) Turkish is the language spoken among Turkish immigrants, this scale is an indirect measure of the degree to which one’s social relationships are embedded in mainstream cultural contexts. On average, the level of contact of Turkish immigrants was 2.00 ($SD = .046$).

Procedure. The questionnaires used in Study 1 were translated from English into both Dutch and Turkish by bilingual researchers and then back-translated. Belgian respondents were recruited at a community college, which made it likely that they matched the Turkish respondents in terms of their socioeconomic level. A small part of the Turkish immigrants (20%) came from the same community college; the remaining Turkish participants responded to bilingual flyers they received in their mailboxes, in which they were invited to join one of the research meetings held at a community center in their (multiethnic) neighborhood. A research team consisting of mainstream Belgian and bicultural Turkish research assistants explained and administered the questionnaires. As in Study 1, respondents received a package including two different versions of the EPQ together with demographic and acculturation questionnaires.

Results and Discussion

Group difference in emotional concordance. To allow for the possibility that cultural differences in emotional concordance were moderated by social context or type of emotion, we conducted a Culture (Turkish first generation, Turkish second generation, Belgian) × Valence (positive, negative) × Relationship Context (work or school, family) repeated measures ANOVA with two levels of (Fisher-transformed) emotional concordance (engaged, disengaged situations) as the repeated dependent variables. Similarly to Study 1, there were cultural differences in emotional concordance, although the effect was only marginally significant, $F(2, 199) = 2.772$, $p = .065$, $\eta^2 = .027$. Planned contrasts revealed, however, that emotional concordance was significantly higher for Belgians ($M = .72$, $SD = .040$; $\Delta R^2 = .543$, $p = .045$) than for Turkish participants ($M = .54$, $SD = .039$, $\Delta R^2 = .482$, $p = .053$) and for Turkish second generation ($M = .59$, $SD = .033$, $\Delta R^2 = .506$, $p = .038$) than for Turkish first generation ($M = .52$, $SD = .041$, $\Delta R^2 = .456$, $p = .076$).

Panel A: Korean immigrants in the US

Study 1

Note: None of the interactions between predictors of interest and Educational attainment were significant. Only Valence and Social Contact interacted significantly in the Turkish sample in Belgium. For these reasons, we do not report these non-significant results of the fourth step in the analyses.

Analysis 1: predictor of interest is the proportion of life spent in the host culture; Analysis 2: predictor of interest is the number of years spent in the host culture, after controlling for age; Analysis 3: predictor of interest is the age of immigration; Analysis 4: predictor of interest is the amount of social contact with members from the host group; Analysis 5: predictors of interest are the direct measures of acculturation, namely, attitudes towards the adoption of values and traditions and attitudes towards social contact with people from the host group.

The βs presented here are the ones from the final regression model, i.e., the latest step that significantly contributed to the explained variance.

$\Delta R^2$ and $\beta$'s presented here are the ones from the final regression model, i.e., the latest step that significantly contributed to the explained variance. $\hat{\beta}$ The βs presented here are the ones from the final regression model, i.e., the latest step that significantly contributed to the explained variance.

$\dagger p < .10, * p < .05, ** p < .01, *** p < .001$
mean \( r = .61 \) than for Turkish first-generation immigrants \((M = 0.59, SD = 0.045; \text{mean } r = .53; \text{contrast estimate} = -.132, p = .029)\). Emotional concordance of Turkish respondents who were born in Belgium \((M = 0.65, SD = 0.037; \text{mean } r = .57)\) only marginally differed from the mean emotional concordance for Belgians \((\text{contrast estimate} = -.099, p = .072)\). Furthermore, there was a main effect of valence, \(F(1, 199) = 235.716, p \leq .001, \eta^2 = .542\), showing that emotional concordance was higher in positive \((M = 0.97, SD = 0.034; \text{mean } r = .75)\) than in negative \((M = 0.33, SD = 0.033; \text{mean } r = .32)\) situations. This main effect of valence was further qualified by a significant interaction of the within-subject variable of engagement and valence \((\text{Pillai’s Trace} = .034), F(1, 199) = 7.033, p = .009, \eta^2 = .034\), indicating that in positive situations emotional concordance was higher for engaged situations whereas in negative situations emotional concordance was higher for disengaged situations. Relationship context did not affect the level of emotional concordance.

**Emotional concordance and contact with the host culture.** To test the hypotheses, we followed the same data-analytic strategy as in Study 1. In all regression analyses pertaining to the Turkish immigrants, we controlled for valence and educational attainment and added the interactions between the predictor of interest and educational attainment and the predictor of interest and valence in the last step of each regression analysis (details of the analyses can be found in Table 2, Panel B). Consistent with our hypothesis, the proportion of life an immigrant had spent in Belgium was associated with the immigrant’s emotional concordance (Analysis 1). The number of years an immigrant had spent in Belgium, after controlling for his or her actual age, was a predictor of emotional concordance as well: For each year the immigrant had spent in Belgium, his or her emotional concordance increased by 0.013 \((\text{Age} \times \text{Belgium}, F(1, 199) = 4.11, SD = 0.034)\), \((\text{Table 2, Panel B}).\) Analysis 5). A paired \(t\)-test showed that Turkish immigrants in Belgium had more positive attitudes toward social contacts with Belgians \((M = 4.88, SD = 1.17)\) than toward the adoption of Belgian values and customs \((M = 4.11, SD = 1.37)\), \(t(142) = -7.178, p \leq .001\). However, in a partial replication of Study 1, Study 2 did not yield a significant association between attitudes toward adoption of values and traditions and emotional concordance, nor was there an association between attitudes toward social contacts with Belgians and emotional concordance.

**Study 2a**

Study 2a was an extension aimed to test if the results from Study 2 would hold given a standard based on Belgian university students rather than on a sample matching the immigrants. Since community samples tend to be characterized by large within-group variability, Study 2a aims to establish replicability of the results when the Belgian emotional patterns were derived from a relatively homogeneous student sample.

**Method**

Participants. As part of a course requirement, 188 Belgian university students (age \(M = 20, SD = 1.9\); 88% female) participated in the study.

Materials and procedure. The EPQ used in Study 2a was identical to the ones used in the first two studies. Due to time constraints, students were allocated to one of eight conditions \((Valence \times Engagement \times Relationship Context)\) in which they completed one version of the EPQ \((e.g., \text{“a situation in which you felt bad about yourself at school”}).\) The manipulation check confirmed that the students’ reported emotions were in line with the prompts (see Table 1). The simultaneous component analysis on the emotion items yielded four common factors and explained 53%, 55%, and 62% of the variance in the Turkish first-generation, Turkish second-generation, and Belgian student samples, respectively. The same 3 emotions as in Study 2 \((i.e., \text{jealous, resigned, embarrassed})\) emerged as cross-culturally different in meaning \((i.e., \text{in different cultural contexts they loaded on different factors})\). Therefore, emotional patterns in Study 2a were computed on the basis of 17 cross-culturally equivalent emotions, as they were in Study 2. Participants’ emotional concordance was computed in the same way as in Study 2; the only difference was that the reference point was the average student emotional patterns. Although students ended up with only one emotional concordance score per person \((they reported only one emotional situation)\), all immigrants ended up with two since they had completed two versions of the EPQ. To test our hypothesis, we calculated an emotional concordance score per respondent. For the Turkish immigrants this meant that we averaged across disengaged and engaged emotional situations. Hypotheses were tested based on Fisher-transformed concordance scores. Other acculturation measures, such as those on attitudes or context, were similar to the ones used in Study 2.

**Results and Discussion**

**Group difference in emotional concordance.** An ANOVA with the emotional concordance score as dependent variable and culture, valence, and context as predictors explained 54% of
the variance in emotional concordance scores. There was a significant main effect of culture, $F(2, 330) = 22.550, p \leq .001$, $\eta^2 = .120$; subsequent analyses demonstrated that both the first-generation ($M = 0.54, SD = 0.047$; mean $r = .49$) and the second-generation ($M = 0.62, SD = 0.043$; mean $r = .55$) immigrant groups showed lower emotional concordance scores than Belgian students ($M = 0.87, SD = 0.029$; mean $r = .70$). Similar to Studies 1 and 2, there was a highly significant main effect of valence, $F(1, 330) = 45.484, p \leq .001$, $\eta^2 = .471$, showing that, across cultural groups, emotional concordance was higher in positive ($M = 1.08, SD = 0.032$; mean $r = .79$) than in negative ($M = 0.27, SD = 0.034$; mean $r = .27$) situations. A main effect of context, $F(1, 330) = 4.499, p = .035$, $\eta^2 = .013$, revealed that emotional concordance was higher for work or school contexts ($M = 0.73, SD = 0.034$; mean $r = .62$) than for family contexts ($M = 0.63, SD = 0.033$; mean $r = .55$). However, pairwise comparisons revealed that this difference was significant for Belgian students only, mean difference $= .085$, $F(1, 330) = 7.998, p = .372$ for Turkish first-generation immigrants; mean difference $= .074$, $F(1, 330) = .745, p = .389$ for Turkish second-generation immigrants; and mean difference $= .139$, $F(1, 330) = 5.779, p = .017$ for Belgian students, which may have to do with the fact that these respondents were all classmates.

**Emotional concordance and contact with the host culture.** Contact with the host culture predicted emotional concordance, irrespective of whether the measure for emotional concordance was based on the Belgian students’ emotional patterns or on the emotional patterns of the community samples. The only difference yielded by the two measures of concordance pertained to the age of immigration, which predicted emotional concordance when it was based on similarities with the community sample but not with the student sample. Details of these analyses can be found in Table 2, Panel B, Study 2a. Similarly to Study 2 with the Belgian community emotional patterns as the standards, we found in Study 2a that the interaction of social relationships with valence was significant. Consistent with Study 2, simple slopes analyses subsequently revealed that the number of social relationships with Belgians was positively associated with emotional concordance in negative emotional situations only, simple slope for negative situations $= .20$, $t(132) = 2.25, p$ (one-tailed) $= .013$, simple slope for positive situations $= -.07$, $t(132) = -0.85, p$ (one-tailed) $= .20$.

**Emotional concordance and explicit measures of psychological acculturation.** Consistent with Study 2, emotional concordance was predicted neither by immigrants’ attitudes toward the adoption of mainstream values and customs nor by the level of social contact with members of the mainstream.

**General Discussion**

**Emotional Acculturation**

Two studies suggested the existence of emotional acculturation; that is, emotional concordance appeared to be higher for those immigrants who spent more time in the new culture or who engaged more in relationships with host group members. Thus, emotional concordance could be predicted by the immigrants’ exposure to the host culture. Emotional acculturation regards the patterns of emotions rather than the mean levels of intensity. Exposure to the mainstream culture predicted neither immigrants’ mean score on the emotion scales nor mean levels of individual emotions.

Differences in emotional patterns emerged against the backdrop of comparable emotional situations. The matching of situations was accomplished by asking participants to describe an event from their own daily life that met the description of an emotional situation in a particular prompt (e.g., “some situations at your school or work make you feel good about your relationships with others”). Prompts were standardized with respect to a small number of situational dimensions that in the literature have been used to classify emotional situations: valence (e.g., Russell & Barrett, 1999; Watson & Tellegen, 1999), engagement (Kitayama et al., 2000), and relationship context (Oishi, Diener, Scollon, & Biswas-Diener, 2004). Since the manipulation checks confirmed that the reported emotions were matching the situational prompts as expected (see Table 1), we have some preliminary evidence that the reported emotional events differ neither across cultural groups nor across acculturation levels; at least they did not differ on these three most important dimensions of emotional situations. Yet patterns of emotional experiences differed in ways that may be considered evidence for emotional acculturation.

The findings of emotional acculturation were replicated across two contexts (United States, Europe) and with two different immigrant groups (Korean, Turkish). Moreover, evidence for emotional acculturation was found for the Turkish immigrants, regardless of whether the Belgian standard of comparison consisted of emotional patterns reported by a community sample or of a sample of college students.

**Positive Versus Negative Emotional Situations**

Across cultural contexts, emotional concordance was higher for the positive than for the negative situations. This may be related to the finding that different emotions covary more in positive than in negative situations. Both in Study 1 and in Study 2 the sum of variances of all individual emotions was higher in the negative (73.6 in Study 1 and 79.7 in Study 2) than in the positive situations (51.6 in Study 1 and 49.2 in Study 2), suggesting that the patterning of emotions in positive situations is relatively simple compared to the patterning of the same emotions in negative situations. It may be easier, then, to learn, and adapt to, the new culture’s emotional pattern in positive than in negative emotional situations.

Emotional concordance might thus be higher for positive than for negative situations because negative situations are more complex. Developmental research corroborates this idea: It takes children longer to master emotion knowledge in the negative than in the positive domain. Although the knowledge of negative emotion words and antecedents was greater for
children in secondary than in primary school, no differences were measured for positive emotion knowledge; primary school children have mastered all there is to know about positive emotion words and antecedents by the time they are in elementary school (Doost, Moradi, Taghavi, Yule, & Dalgeish, 1999).

Although the concordance for positive and negative emotional situations differs, there is no indication that the process of emotional acculturation is different: An immigrant’s emotional concordance is predicted by his or her exposure to mainstream culture, even after controlling for the valence of the emotion. Generally, the interactions with valence did not predict immigrants’ emotional concordance. This justifies the conclusion that, for positive and negative emotions alike, individual differences in emotional concordance are predicted by exposure to the host culture. There is only one exception: For Turkish immigrants, emotional concordance in negative, but not in positive, situations was predicted by social contact with Belgians. Why emotional concordance in Turkish immigrants is facilitated by repeated interactions in negative situations remains a question.

The Role of Culture in Emotions

The current studies also speak to the role of culture in emotions. First, the finding that the proportion of life an immigrant has spent in the host culture predicts emotional concordance suggests that a person’s life experiences continue to shape his or her emotions beyond the first years of socialization. And although it is true that immigration at a younger age increases the chances of emotional concordance to the host culture, this may be true in part because the experience with the heritage culture is, by definition, limited at that point. Similarly, as the number of years an immigrant has spent in the host culture increases, so his or her concordance to the host culture’s emotional patterns increases. The results of the current studies do not favor one particular conceptualization of exposure to the host culture above the other two since the proportion of life spent in the United States explained more variance in Koreans’ emotional concordance than the age of immigration and number of years spent in the host culture, respectively (Study 1), whereas the number of years in the host culture was a better predictor of Turkish immigrants’ emotional concordance than the proportion of life spent in Belgium and the age of immigration, respectively (Study 2).

Second, culture may find its way into people’s emotional experiences through their—intercultural—relationships and interactions. Just like spending time with roommates, partners, and teammates increases emotional convergence (Anderson et al., 2003; Totterdell, 2000), so does spending time with members of the host group predict the immigrants’ emotional concordance. Although the processes underlying emotional convergence have not been studied, the developmental emotion literature (e.g., Saarni, 1997) suggests that “our embeddedness in relationships with others provides the diversity of emotional experience, the challenges of emotional coping, and the immensely rich ways in which we communicate our emotional experiences to others” (p. 38) and, therefore, that emotional patterns may be “negotiated” in these interpersonal relationships. The idea is that interactions with others may produce successive (not end-point-oriented) changes in emotions (Saarni, 2008) that enhance functionality to the particular social context.

Interpersonal relationships do not take place in a vacuum but are rather culturally contextualized. As the emotions that prevail and are normative differ across cultural contexts, so may the emotions modeled and encouraged in the interactions within different contexts (Mesquita, 2010). For immigrants this means that each interaction that takes place in the new cultural context will model and reward emotional patterns that are different from those prevalent and valued in their culture of origin. Each interaction may thus produce successive changes in emotions that incrementally transform the immigrants’ patterns of emotional responding. Naturally, based on the data we cannot claim any knowledge about the direction of the relationship between emotional acculturation and the interactions with host culture members.

What Changes Underlie Emotional Acculturation?

Future research is needed to shed light on the underlying processes of emotional acculturation. Which are the changes that underlie the resulting shifts in emotional patterns? We can conceive of two different paths to emotional acculturation that are not mutually exclusive either. Emotional patterns may change either because immigrants who are introduced in the new culture will experience different situations or because immigrants start appraising the same situations differently. The first mechanism focuses on the external component of acculturation (i.e., changing surroundings), the second mechanism focuses on the internal component of acculturation (i.e., changing psychological processes).

Consistent with the idea that emotional acculturation is related to changes in the external world is the finding in other research that different cultural contexts are characterized by specific “tasks” (Kitayama & Imada, 2010). For example, the ideal general goal state of “independence” that is encouraged and promoted by most North American cultural contexts (e.g., Markus & Kitayama, 1994) can be achieved by performing various tasks, such as expressing one’s unique self (Kim & Markus, 1999), performing personal goal pursuit and self-promotion (Oishi & Diener, 2001), and maintaining high self-esteem (Crocker & Park, 2004).

Emotional acculturation may reflect an immigrant’s level of engagement in the tasks of the host culture. If this explanation of emotional concordance were right, we would expect that the situations reported by immigrants whose patterns of emotions are least concordant with the mainstream culture differ more from the emotional situations reported by mainstream respondents than situations reported by emotionally concordant immigrants. Unfortunately, the situational descriptions collected in...
the studies reported did not allow us to compare the emotional situations in detail.

Alternatively, emotional acculturation may consist of changes in psychological processes, particularly in the ways the same situations are appraised. As appraisals constitute the emotional experience (Barrett, Mesquita, Ochsner, & Gross, 2007) and appraisal tendencies differ across cultures (Mesquita & Albert, 2007; Scherer, 2009), changes in these tendencies may result in the shifts in experience seen in emotional acculturation.

Implicit Versus Explicit Acculturation

Emotional concordance was unrelated to immigrants’ attitudes toward (a) the adoption of values and traditions (Study 1 and 2) and (b) social relationships with members of the mainstream (Study 2). This suggests that emotional acculturation (i.e., acculturation of an implicit psychological tendency) is unrelated to the attitudes toward acculturation (i.e., explicit beliefs). Thus, it is possible to welcome a new culture without being emotionally concordant to it (e.g., new immigrants) or, conversely, to be reluctant to adopt the mainstream culture’s values and yet to be emotionally concordant (e.g., second generation). This finding echoes the recent suggestion of Kitayama and Imada (2010) that “explicit beliefs may be quite independent of implicit psychological tendencies” (p. 186).

This finding has major implications for research on acculturation. It suggests that acculturation is non-monolithic concept (cf. Phinney & Flores, 2002) and that different facets of psychological functioning may acculturate in different directions or at different rates. It is possible that explicit measures of acculturation—measuring attitudes or beliefs—represent the immigrant’s desire to be part of mainstream culture, whereas implicit measures—such as our measure of emotional concordance to the host culture—reflect the degree to which an immigrant’s psychology is actually contingent on the social and reinforcement structures of the host culture.

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Notes

1. Psychological acculturation consists of two dimensions, one reflecting the degree to which a person has adopted mainstream culture and the other referring to the maintenance of the heritage culture (e.g., Ryder, Alden, & Paulhus, 2000). Since we did not include samples of the cultures of heritage, our data offer a comparison of the immigrants to the host culture only and thus shed light on their adoption of the host culture’s emotional pattern but not on their maintenance of the heritage culture’s emotional pattern.

2. We included explicit measures of cultural maintenance as well, despite the fact that we had no predictions with respect to the ways in which cultural maintenance of preferences, attitudes, and so on would relate to the adoption of mainstream patterns of emotion. In fact, the results did not show any systematic correlations, which led us to drop the discussion of these measures from the article.

3. With the 20-item emotional concordance variable as the independent variable in the regression analysis, age of immigration failed to reach significance as a predictor of emotional concordance—although the effect was in the expected direction.

4. The only exception to this was the experience of shame for Korean immigrants in the United States: The more Korean immigrants are engaged in North American culture, the lower their reported levels of shame. This correlation occurred for all measures of acculturation, except for adoption of mainstream values and traditions.

References


