These studies have made important contributions to arousal and disgust of, typically disgust-inducing stimuli and tasks (Borg & de Jong, 2012). That sexually aroused women are less disgusted by, and less avoidant that might otherwise be disgusting (Ariely & Loewenstein, 2006), and arousal increases reported willingness to engage in sexual behaviors wise sexually repellent stimuli (Stevenson et al., 2011); that sexual individuals experience temporarily suppressed disgust in response to other-2011). This research has shown, for example, that sexually aroused indi-

Despite successes in the field of disgust and mating, these domains of research remain largely disconnected (for exceptions, see Borg & de Jong, 2012; Fleischman & Fessler, 2011; Gangestad & Simpson, 2000; Haidt, McCauley, & Rozin, 1994; Navarrete & Fessler, 2006; Rozin & Fallon, 1987; Schaller, Miller, Gervais, Yager, & Chen, 2010; Tybur, Lieberman, Kurzban, & DeScioli, 2012). Despite successes in the fields of disgust and mating, these domains of research remain largely disconnected (for exceptions, see Borg & de Jong, 2012; Fleischman, 2014; Lee, Dubbs, Von Hippel, Brooks, & Zietsch, 2014; Tybur & Gangestad, 2011). Extant research on the relationship between disgust and mating has made valuable contributions to understanding the relationship between disgust and the temporary state of sexual arousal (e.g. de Jong, van Overveld, & Borg, 2013; Fleischman, 2014; Stevenson, Case, & Oaten, 2011). This research has shown, for example, that sexually aroused individuals experience temporarily suppressed disgust in response to otherwise sexually repellent stimuli (Stevenson et al., 2011); that sexual arousal increases reported willingness to engage in sexual behaviors that might otherwise be disgusting (Ariely & Loewenstein, 2006), and that sexually aroused women are less disgusted by, and less avoidant of, typically disgust-inducing stimuli and tasks (Borg & de Jong, 2012). These studies have made important contributions to arousal and disgust research, but have focused almost exclusively on immediate, state-level disgust and state-level sexual arousal.

An evolutionary task analysis predicts a connection between disgust and human mating, two important but currently disconnected areas of psychology. Because short-term mating strategies involve sex with multiple partners after brief temporal durations, such a strategy should be difficult to pursue in conjunction with high levels of sexual disgust. On this basis, we hypothesized that individuals with a stronger proclivity for short-term mating would exhibit dispositionally lower levels of sexual disgust. Two independent studies provided strong support for this hypothesis: among both men and women, an orientation toward short-term mating was associated with reduced levels of sexual disgust, but not with suppressed moral or pathogen disgust. Our discussion highlights an unexpected finding and suggests important questions for future research.

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showing how this emotion may be adaptively calibrated in the opposite direction: sexual disgust may be strategically and functionally down-regulated to facilitate the successful pursuit of mating.

1.1. Mating strategy and sexual disgust

Individuals vary in mating strategy—their disposition toward long-term, committed mate choices versus short-term, uncommitted mate choices (Buss & Schmitt, 1993; Gangestad & Simpson, 1990, 2000). Different mating strategies present distinct adaptive challenges, which in turn lead to the evolution of strategy-specific psychological and behavioral solutions. A task analysis (Marr, 1982) of these distinct challenges identifies the problems individuals must solve to successfully implement different mating strategies and leads to hypotheses about the psychological solutions that could have evolved to solve these adaptive problems.

Successful short-term mating strategies typically involve multiple sex partners, desire for sexual variety, and brief intervals of time before sexual intercourse (Buss, 2012). This strategy should be difficult to implement in the presence of high levels of sexual disgust: individuals with high levels of sexual disgust are less likely to be comfortable with casual sex, multiple partners, and sex that occurs before sufficient information can be acquired about the health and hygiene status of potential mates. Consequently, we propose that a crucial component of a successful short-term mating strategy is the downregulation of sexual disgust sensitivity. On this hypothesis, suppressed levels of sexual disgust may be a previously undiscovered design feature of short-term mating strategies.

In contrast, down-regulated sexual disgust is not necessary for the successful pursuit of a monogamous strategy. In fact, higher levels of sexual disgust may facilitate the implementation of committed mating strategies by inhibiting short-term mating and deterring those in committed relationships from sexual infidelity.

This reasoning suggests that sexual disgust should be dispositionally lower among individuals pursuing a short-term mating strategy relative to those pursuing committed mating. We therefore hypothesized that mating strategy calibrates sexual disgust. Specifically, we predicted that a stronger disposition toward short-term mating is associated with reduced sexual disgust sensitivity.

1.2. Mating strategy and physical attractiveness

This task analysis suggests a link between mating strategy and sexual disgust, but leaves a different question unanswered: Why do some individuals exhibit a stronger orientation toward short-term mating than others? Theory and research suggest that the answer lies partly in individual differences in physical attractiveness (Gangestad & Simpson, 2000; Rhodes, Simmons, & Peters, 2005).

Women shoulder the greater minimum obligatory investment in offspring and thereby incur more severe costs from infanticidal mating decisions (Trivers, 1972). Consequently, women have evolved more discriminating mate preferences (Buss, 2003; Trivers, 1972). This sex difference in choosiness is particularly pronounced in the context of short-term mating, which carries greater potential costs for women than for men (Symons, 1979; Trivers, 1972). For example, women face the potential of a costly nine-month pregnancy (Trivers, 1972), are at greater risk of contracting sexually transmitted diseases, and suffer more severe reproductive consequences as a result of these diseases (National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention, 2011).

A female-biased sex difference in the costs of short-term mating is mirrored by a male-biased sex difference in the benefits: ancestrally, success in short-term mating paid greater fitness dividends to men than to women. A large body of research demonstrates that both sexes share a complex repertoire of evolved mating strategies (Buss & Schmitt, 1993), and that there is substantial within-sex variability in mating strategies (Gangestad & Simpson, 1990, 2000). Nonetheless, abundant empirical evidence from dozens of data sources shows that short-term mating looms larger in men’s than in women’s mating psychology (Buss, 2012; Buss & Schmitt, 1993) and is pursued more vigorously by men (Lippa, 2009).

Because physical attractiveness is desirable in a mate (Sugiyama, 2005; Symons, 1979, 1995) and enhances one’s mate value (Buss, 2003), physically attractive individuals should be better able to implement their preferred mating strategy. And because successful short-term mating strategies were more reproductively beneficial for men than women during human evolution (Buss, 2003; Symons, 1979), evolutionary reasoning suggests that physical attractiveness should lead men—but not women—to pursue uncommitted mating.

Researchers have shown that in men, but not women, physical attractiveness and related indices such as fluctuating asymmetry predict number of sex partners, number of affair partners, and other measures of short-term mating (Gangestad & Simpson, 2000; Rhodes et al., 2005). This pattern is mirrored in other species: more attractive male birds devote less effort to parenting when they can translate their physical attractiveness into extra-pair copulations (Johnsen, Delhey, Schlicht, Peters, & Kempenaers, 2005; Møller, 1994; Møller & Thornhill, 1998).

Precisely how physical attractiveness leads to larger numbers of short-term mates remains unknown, however. Extant findings link physical attractiveness to behavioral outcomes such as number of sex partners, but have not assessed whether physically attractive men experience greater activation of underlying short-term mating psychology. The link between physical attractiveness and mating could, in principle, occur via a change in behavior alone or via a shift in both behavior and psychology. Consequently, we sought to replicate this link between male physical attractiveness and short-term mating and investigate whether it applies to underlying psychology as well as manifest behavior.

1.3. The current study

We propose a two-step process in which physical attractiveness calibrates mating strategy and mating strategy calibrates sexual disgust. The first part of this model is sex-differentiated, with physical attractiveness leading to uncommitted mating in men but not women. The second part of this model posits the same relationship for both sexes, with a disposition toward short-term mating leading to reduced levels of sexual disgust sensitivity in both men and women.

2. Study 1

2.1. Methods

2.1.1. Participants and procedure

One hundred forty-four women and 103 men (Mage = 19.49 years, SDage = 2.56, age range = 18–51) were recruited from the psychology subject pool at The University of Texas at Austin. Participants arrived at the laboratory, provided informed consent to participate in the study, and were escorted by a researcher to a private room where they completed an online survey hosted by Qualtrics. Participants received partial course credit for their participation and were debriefed upon completion.

2.1.2. Measures

As part of a larger study on individual differences in disgust sensitivity, participants completed a set of inventories designed to measure mating strategy, physical attractiveness, and disgust.

2.1.2.1. Mating strategy. We operationalized mating strategy with the Revised Sociosexual Orientation Inventory (SOI-R; Penke & Asendorpf, 2008). This enabled us to measure both psychological and behavioral facets of short-term mating; the SOI-R is a nine-item measure of an
individual’s behavioral, cognitive, and attitudinal disposition toward uncommitted sexual relations. Sample items include “With how many different partners have you had sex within the past 12 months?” (behavior), “How often do you experience sexual arousal when you are in contact with someone you are not in a committed romantic relationship with?” (desire), and “I can imagine myself being comfortable and enjoying ‘casual’ sex with different partners” (attitude). Inventory items are summed to form a composite SOI-R score, with higher scores reflecting a stronger disposition toward short-term mating.

2.1.2.2. Physical attractiveness. We assessed participants’ physical attractiveness with the International Personality Item Pool physical attractiveness scale (Goldberg et al., 2006). We elected to use this self-report measure because individuals have direct access to self-represented attractiveness, but not “objective” ratings of attractiveness. The information-processing mechanisms responsible for calibrating mating strategy are therefore expected to operate on self-represented attractiveness, an internal regulatory variable whose value is likely based on multiple sources of information across time (for a discussion of internal regulatory variables, see Lieberman, Tooby, & Cosmides, 2007; Tooby, Cosmides, Sell, Lieberman, & Sznyer, 2008). Sample items on the nine-item Likert-type scale include “Have a pleasing physique” and “Attract attention from the opposite sex.”

2.1.2.3. Disgust. We measured disgust with the Three Domain Disgust Scale (TDDS), a 21-item instrument composed of three seven-item subscales designed to assess pathogen, sexual, and moral disgust (Tybur et al., 2009). The TDDS asks participants to rate how disgusting they find a variety of potentially repellent situations on a 7-point Likert-type scale (0 = not at all disgusting, 6 = extremely disgusting). Sample items from the sexual disgust subscale include “A stranger of the opposite sex intentionally rubbing your thigh in an elevator” and “Performing oral sex.”

We measured all three forms of disgust to determine whether the proposed link between mating strategy and disgust is specific to the sexual domain or permeates other facets of disgust as well. Although our central hypothesis is consistent with either outcome, our a priori reasoning pertains specifically to sexual disgust. Demonstrating the specificity of the link between mating strategy and sexual disgust would therefore provide more discriminating empirical support for the rationale underlying our hypothesis.

2.2. Results

We tested study hypotheses with two different analytic methods. First, zero-order correlations and regression analyses were used to test the predicted relationships between (i) physical attractiveness and mating strategy and (ii) mating strategy and sexual disgust. Second, we conducted exploratory path analyses in which we investigated the possibility of an indirect effect of physical attractiveness on sexual disgust via mating strategy.

2.2.1. Descriptive statistics

Table 1 presents means and standard deviations for the three disgust scales (Cronbach’s α: moral = .87, sexual = .86, pathogen = .80) and the sociosexual orientation inventory (α = .68).

<table>
<thead>
<tr>
<th></th>
<th>Men mean (SD)</th>
<th>Women mean (SD)</th>
<th>Cohen’s d</th>
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<tbody>
<tr>
<td>Sexual</td>
<td>22.85 (8.57)</td>
<td>22.25 (8.25)</td>
<td>1.54***</td>
</tr>
<tr>
<td>Moral</td>
<td>32.89 (9.43)</td>
<td>34.50 (8.81)</td>
<td>.18</td>
</tr>
<tr>
<td>Pathogen</td>
<td>32.99 (7.28)</td>
<td>25.37 (7.71)</td>
<td>.43**</td>
</tr>
<tr>
<td>Mating Strategy</td>
<td>38.80 (14.59)</td>
<td>23.76 (11.30)</td>
<td>1.15***</td>
</tr>
</tbody>
</table>

*p < .05. **p < .01. ***p < .001.

<table>
<thead>
<tr>
<th></th>
<th>Men mean (SD)</th>
<th>Women mean (SD)</th>
<th>Cohen's d</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sociosexual orientation</td>
<td>38.80 (14.59)</td>
<td>23.76 (11.30)</td>
<td>1.15***</td>
</tr>
</tbody>
</table>

Sex differences in disgust followed a similar pattern to those reported by Tybur and colleagues (2009, 2012). Consistent with previous research, women in the current study exhibited stronger pathogen disgust (r(241) = −.33, p < .001) and sexual disgust (r(245) = −.199, p < .001). Whereas Tybur and coworkers (2009, 2011) found stronger female disgust in all three domains, the effect for moral disgust did not reach significance in the current study [r(242) = −.137, ns]. More broadly, these findings replicate the reliable sex difference demonstrated in much of the disgust literature over the last several decades: women exhibit significantly higher levels of disgust than men (e.g., Al-Shawaf & Lewis, 2013; Curtis, Aunger, & Rabie, 2004; Haidt et al., 1994; Fessler, Pillsworth, & Flamon, 2004; Tybur et al., 2009).

2.2.2. Mating strategy and sexual disgust

Our primary hypothesis suggests that short-term mating should be associated with reduced levels of sexual disgust in both sexes. As predicted, short-term mating was inversely related to sexual disgust, and this effect was independent of sex [men: r(97) = −.44, p < .001; women: r(134) = −.46, p < .001; sex×SOI-R interaction: β = −.109, t(233) = −.74, ns.] (Fig. 1, top panel).

Moreover, this relationship between mating strategy and disgust was specific to the sexual domain; mating strategy was not associated with individual differences in moral disgust [men: r(96) = −.07, ns; women: r(134) = −.12, ns] or pathogen disgust [men: r(97) = −.01, ns; women: r(135) = −.16, ns].

To ensure that the relationship between mating strategy and sexual disgust was not merely due to content overlap between the instruments measuring the two constructs, we re-ran the same analyses after removing items of potential overlap from the sexual disgust scale.
(specifically, items 11, 14, and 17 of the TDDS). Short-term mating was still inversely related to sexual disgust [men: \( r(97) = -0.34, p < .001 \), women: \( r(136) = -0.29, p < .001 \)], and this effect was still independent of sex [sex*SOI-R interaction: \( \beta = -0.028, t(233) = -1.16, ns \)]. The fact that these analyses yielded the same substantive results, without exception, unambiguously indicates that the relationship between mating strategy and sexual disgust is not an artifact of instrument overlap.

### 2.2.3. Mating strategy and physical attractiveness

Our secondary hypothesis was that physical attractiveness would be associated with short-term mating disposition among men but not women. Regression analyses supported this hypothesis: physical attractiveness and sex interacted to predict individuals’ SOI scores, \( \beta = -0.657, t(228) = -2.189, p = .03 \). As predicted, men’s inclination toward short-term mating correlated positively with their physical attractiveness, \( r(95) = 0.25, p = .01 \), whereas women’s physical attractiveness was not associated with the pursuit of short-term mating, \( r(133) = 0.00, ns \).

### 2.2.4. Physical attractiveness \( \rightarrow \) mating strategy \( \rightarrow \) sexual disgust

The links observed between a) men’s attractiveness and mating strategy, and b) men’s mating strategy and sexual disgust, raise the question: is there an indirect link between men’s physical attractiveness and sexual disgust via mating strategy? To answer this question, we used a path analysis to model the indirect pathway from men’s attractiveness to sexual disgust through mating strategy (Mplus, version 7).

Modeling this relationship revealed an indirect path from men’s physical attractiveness to their sexual disgust via mating strategy, \( \beta = -0.12, SE = 0.05, p = .02 \) (Fig. 2). Among women, on the other hand, there was no indirect path from physical attractiveness to sexual disgust, \( \beta = 0.00, SE = 0.04, ns \), consistent with the absence of a relationship between women’s physical attractiveness and mating strategy.

### 3. Study 2

To provide a more stringent test of our hypotheses, we subjected our findings to a reproducibility test in a second study with an independent sample.

#### 3.1. Method

Two hundred and three women and eighty men (\( M_{age} = 18.89 \) years, \( SD_{age} = 2.81 \), age range = 18–50) were recruited from the psychology subject pool at The University of Texas at Austin. One participant did not indicate his/her gender and was therefore excluded from analyses. Participants received partial course credit for participation, and completed the same set of materials as those described in study 1.

#### 3.2. Results

##### 3.2.1. Descriptive statistics

Table 2 presents means and standard deviations for the three disgust scales (Cronbach’s \( \alpha \): moral = 0.86, sexual = 0.88, pathogen = 0.83) and the sociosexual orientation inventory (\( \alpha \): 0.65). Sex differences in disgust were similar to those obtained in study 1 and in Tybur et al.’s seminal studies, with women exceeding men in all three domains of disgust [moral: \( t(277) = -2.55, p < .05 \), pathogen: \( t(277) = -4.73, p < .001 \), sexual: \( t(278) = -11.00, p < .001 \)].

##### 3.2.2. Mating strategy and sexual disgust

Replicating study 1’s findings and providing strong confirmatory evidence for our primary hypothesis, short-term mating was associated with down-regulated sexual disgust [men: \( r(76) = -0.51, p < .001 \); women: \( r(190) = -0.61, p < .001 \)], and this effect was independent of sex; sex*SOI-R interaction: \( \beta = -0.174, t(266) = -1.151, ns \) (Fig. 1, bottom panel).

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![Image](Image.png)
3.2.4. Physical attractiveness

Zero-order bivariate correlations between physical attractiveness and sex interacted to predict individuals' SOI scores, and women's short-term mating psychology, physical attractiveness hypothesis that physical attractiveness has differential effects on men's attractiveness, \( r(266) = -0.48, p < 0.001 \), and this effect was again independent of sex [sex*SOI-R interaction: \( \beta = -0.266, t(266) = -1.573, ns \)].

As in study 1, we re-ran these analyses to ensure that the relationship between mating strategy and sexual disgust was not merely due to instrument overlap. We again found the same substantive results, without exception. Short-term mating was inversely related to sexual disgust [men: \( r(76) = -0.48, p < 0.001 \), women: \( r(190) = -0.56, p < 0.001 \)], and this effect was again independent of sex [sex*SOI-R interaction: \( \beta = -0.266, t(266) = -1.573, ns \)].

In sum, across four possible analyses (two independent studies, each analyzed using both the original scales and the scales after removing items of potentially overlapping content), we found the same substantive results without exception. A disposition for short-term mating is associated with reduced levels of sexual disgust, but not with pathogen or moral disgust.

4. Discussion

4.1. Mating strategy and sexual disgust

Our primary hypothesis was that a stronger disposition toward short-term mating would be associated with reduced sexual disgust sensitivity among both men and women. This hypothesis received strong support. In both studies, an orientation toward short-term mating was associated with suppressed sexual disgust, but not with pathogen or moral disgust. This relationship held across independent samples, was robust to substantial modifications of the sexual disgust scale, and was true for both sexes. This provides solid support for our a priori hypothesis that individuals dispositionally oriented toward short-term mating have stably reduced levels of sexual disgust.

Existing research has revealed a connection between state-level sexual arousal and disgust (e.g., Ariely & Loewenstein, 2006; de Jong et al., 2013; Fleischman, 2014; Stevenson et al., 2011), but this study is the first to empirically demonstrate the theoretically predicted connection between mating strategy and dispositional sexual disgust sensitivity.

4.2. Mating strategy and pathogen disgust

At first blush, it seems surprising that mating strategy was unrelated to pathogen disgust. Pathogens and sexually transmitted infections are an important potential cost of short-term mating (e.g., Buss, 2012; National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention, 2011). Why would a proclivity for short-term mating not be associated with reduced levels of pathogen disgust?

A closer examination reveals two reasons for the absence of a relationship between short-term mating and pathogen disgust. First, the construct of pathogen disgust as a whole does include cues that are relevant to short-term mating, such as cues to infection or disease. However, it also contains a variety of cues that have little or no relevance to short-term mating, such as those pertaining to non-parasitic insects, rodents, and spoiled and rotting food. One would therefore expect only a small subset of the entire class of pathogen-relevant cues to trigger reduced desire to engage in short-term mating. The rest of the pathogen cues appear weakly relevant to mating, if at all.

Second, there is a distinction between the construct of pathogen disgust and the current studies' operationalization of this construct, the widely used pathogen sub-scale of the Three Domain Disgust Scale (Tybur et al., 2009, 2012). Perhaps in order to ensure the relative orthogonality of the pathogen and sexual disgust subscales, the pathogen subscale is marked by a general absence of “overlap” cues—cues that would be expected to trigger both sexual and pathogen disgust. As a result, not only does the construct of pathogen disgust include cues that are irrelevant to short-term mating, but the scale for pathogen disgust exacerbates this issue by focusing on “pure pathogen” cues that are unrelated to mating. This combination dilutes whatever true relationship may exist between pathogen disgust and mating strategy, leading to the statistical outcome that mating strategy appears strongly related to sexual disgust, but not at all related, or only weakly related, to pathogen disgust. We expect that an instrument that measured pathogen disgust without limiting scale items to those that do not overlap with sexual disgust would indeed be associated with short-term mating.

Table 2

<table>
<thead>
<tr>
<th>Disgust subscale (TDDS)</th>
<th>Men mean (SD)</th>
<th>Women mean (SD)</th>
<th>Cohen’s d</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sexual</td>
<td>23.76 (9.91)</td>
<td>37.05 (8.79)</td>
<td>1.42***</td>
</tr>
<tr>
<td>Moral</td>
<td>32.17 (10.05)</td>
<td>35.19 (8.42)</td>
<td>0.33**</td>
</tr>
<tr>
<td>Pathogen</td>
<td>34.96 (8.49)</td>
<td>36.92 (7.61)</td>
<td>0.32***</td>
</tr>
<tr>
<td>Mating strategy (SOI-R)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sociosexual orientation</td>
<td>38.14 (14.71)</td>
<td>23.12 (12.48)</td>
<td>1.10***</td>
</tr>
</tbody>
</table>

* \( p < .05 \)
** \( p < .01 \)
*** \( p < .001 \)

Table 3

<table>
<thead>
<tr>
<th>Correlations between men's physical attractiveness and short-term mating.</th>
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<tbody>
<tr>
<td>Sociosexual Orientation Inventory-Revised (SOI-R)</td>
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<tr>
<td>---------------------------------------------------</td>
</tr>
<tr>
<td>Behavior</td>
</tr>
<tr>
<td>Attitude</td>
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<tr>
<td>Desire</td>
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<tr>
<td>Overall</td>
</tr>
</tbody>
</table>

* \( p < .05 \)
** \( p < .01 \)

Table 4

<table>
<thead>
<tr>
<th>Correlations between women's physical attractiveness and short-term mating.</th>
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<tbody>
<tr>
<td>Sociosexual Orientation Inventory-Revised (SOI-R)</td>
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<tr>
<td>---------------------------------------------------</td>
</tr>
<tr>
<td>Behavior</td>
</tr>
<tr>
<td>Attitude</td>
</tr>
<tr>
<td>Desire</td>
</tr>
<tr>
<td>Overall</td>
</tr>
</tbody>
</table>

* \( p < .05 \)
** \( p < .01 \)
* \( p < .001 \)

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4.3. Mating strategy and physical attractiveness

Our secondary hypothesis was that, consistent with existing theory and research, physical attractiveness would be associated with an orientation toward uncommitted mating among men but not among women. As expected, we found that sex and physical attractiveness interacted to predict short-term mating orientation in both studies; the relationship between physical attractiveness and short-term mating was stronger in men.

However, we also found a weak positive association between women’s attractiveness and scores on the SOI-R in study 2. To further investigate this unexpected association, we explored this relationship for each of the SOI-R’s subscales. This closer analysis revealed that the link between women’s physical attractiveness and their SOI-R scores was driven exclusively by the behavior subscale; there was no relationship in either study between women’s attractiveness and their attitudes toward or desire for short-term mating.

This pattern may be revealing, as high scores on distinct subscales have different implications. Physically attractive women may have a larger number of sexual partners (and hence have higher scores on the Behavior subscale) simply because they have a larger number of eager suitors, but not necessarily because they are pursuing a short-term mating strategy. The fact that women’s attractiveness was not associated with desire for or positive attitudes toward short-term mating in either study corroborates this proposition. This absence of a connection between women’s attractiveness and short-term mating psychology suggests not that physical attractiveness activates short-term mating among women, but rather that physically attractive women accumulate a larger number of sex partners, perhaps as a side effect of having a larger number of suitors or by commencing sex at an earlier age.

Indeed, previous studies have typically found either 1) no association between women’s physical attractiveness (or proxies thereof) and preferred mating strategy (e.g. Gangestad & Simpson, 2000; Landolt, Lalumière, & Quinsey, 1995), or 2) a relationship between women’s physical attractiveness and exclusively behavioral indices of mating strategy such as number of sex partners or age at first sex (e.g. Hughes, Dispenza, & Gallup, 2004; Rhodes et al., 2005; Wiederman & Hurst, 1998). Some studies have found an association between female physical attractiveness and overall mating strategy (e.g. Clark, 2004), but as the present study reveals, it is possible for such an association to be driven entirely by the behavioral subscale of the SOI-R.

In sum, extant data suggest that physical attractiveness in women may predict behavioral indices of short-term mating such as age at first sex or number of sex partners, but offer no discriminative evidence that physical attractiveness in women activates the pursuit of a short-term mating strategy. Rather, the subscale-specific nature of this relationship suggests that attractive women’s higher scores on behavioral indices of mating activity may be more plausibly accounted for by alternative explanations, such as merely having a greater number of opportunities to mate with high mate value men.

As expected, both studies revealed that the relationship between physical attractiveness and short-term mating was stronger among men. Not only was men’s attractiveness directly related to overall short-term mating disposition in both samples, but unlike women, this relationship applied to both the behavioral and attitudinal domains.

The absence of a relationship between men’s physical attractiveness and their self-reported desire for short-term mating remains open to interpretation. If increased conscious desire for short-term mating is not necessary for physically attractive men to secure a larger number of sex partners, then behavioral attempts at short-term mating without increased desire could enable short-term mating success while simultaneously avoiding the reputational costs of appearing overly desirous of sex. Alternatively, physically attractive men may accumulate more sex partners partly because women more often initiate sex with attractive rather than unattractive men, though this explanation cannot account for the attitude finding. The results presented here cannot conclusively adjudicate between these (non-mutually exclusive) alternatives, so this remains an important question for future research.

At present, we can conclude that physical attractiveness is positively associated with short-term mating among men, with the strongest effect sizes found for manifest behavior and with partial activation of men’s short-term mating psychology.

4.4. Limitations and future directions

4.4.1. Causation and directionality

It seems reasonable to conceptualize sexual disgust as a design feature of short-term mating strategies, whereas the reverse conceptualization is more problematic: it is not evolutionarily sensible to regard a short-term mating strategy as a design feature of sexual disgust. Our reasoning therefore suggests that the link between mating strategy and sexual disgust is directional in nature, with mating strategy calibrating sexual disgust sensitivity, but of course conclusive inferences about causation await experimental tests.

Two important questions for future research concern the nature of the causal relationships between sexual disgust and mating strategy. First, if mating strategy calibrates sexual disgust, we can ask whether lifespan shifts in mating strategy cause shifts in sexual disgust thresholds. Second, we can ask the reverse causal question. If down-regulated sexual disgust facilitates short-term mating, then inducing sexual disgust may suppress interest in short-term mating, affecting, for example, participants’ self-reported sociosexual orientation or ideal number of sex partners. New research can investigate these questions through experimental studies that manipulate mating strategy or sexual disgust, and through longitudinal studies that track whether naturally occurring shifts in mating strategy across the lifespan are accompanied by shifts in thresholds for sexual disgust.

4.4.2. Physical attractiveness and short-term mating

Another unresolved puzzle concerns the means by which physical attractiveness leads to short-term mating. Is the mind designed to activate short-term mating strategies partly on the basis of high levels of physical attractiveness, or do physically attractive people simply accumulate more sex partners as an incidental side effect of factors such as having a larger number of suitors or earlier sexual debut? Uncovering the means by which physical attractiveness leads to short-term mating behavior in men and women remains an important question for future research.

4.4.3. Replications with different samples and convergent methods

Our pattern of results was robust across two independent studies and using both the original and modified versions of the sexual disgust scale. This enhances confidence in the veracity of our findings, but the present research is limited by its sample and its method. Our central hypothesis—that reduced sexual disgust is a design feature of successful short-term mating strategies—has yet to be tested in non-western, non-student populations or with different methods. Showing that these results generalize to different cultures and replicate using convergent methods will bolster support for this hypothesis.

4.4.4. Sexual disgust and long-term mating

This research addresses the relationship between sexual disgust and short-term mating, but has yet to investigate a potential link between sexual disgust and long-term mating. The SOI-R, the instrument most commonly used to assess mating strategy, is a unidimensional scale that taps short-term mating orientation but does not index desire for, or orientation toward, long-term mating (Jackson & Kirkpatrick, 2007). As such, limitations on the scales used in the current study prevent us from revealing a possible link between sexual disgust and long-term mating. This remains an important avenue for future research, especially
5. Conclusion

A robust pattern of evidence confirmed our primary hypothesis: short-term mating orientation is associated with reduced sexual disgust sensitivity, but not lower levels of pathogen or moral disgust. This central finding held across two independent samples, was robust to modification of the scales involved, and was true for both sexes. This represents the first evidence of a relationship between dispositional mating strategy and disgust, building a potentially important bridge between these two areas of human psychology.

We found qualified support for the secondary hypothesis that physical attractiveness activates the pursuit of short-term mating among men but not among women. As expected, and consistent with previous research, the association between physical attractiveness and short-term mating was stronger in men, but a weak association was also present among women. Specific analyses further investigating this unexpected finding revealed a previously undiscovered pattern of results that raise questions about the means by which physical attractiveness leads to short-term mating among both men and women. This remains an important question for future research.

The studies presented here reveal strong preliminary support for the central hypothesis that mating strategy calibrates sexual disgust, and invite further tests of the hypothesis using different samples and methods. The novel discoveries revealed by these studies highlight the predictive power and heuristic value of an evolutionary psychological framework for investigating previously unexplored links between disgust and human mating, and point to new research questions for the integration of these domains of scientific inquiry.

References


