Open Library of Affective Foods (OLAF):
Technical Manual and Affective Ratings

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IMPORTANT NOTE: *Most of the theory underlying the Open Library of Affective Foods refers to the International Affective Picture System (Lang, Bradley, and Cuthbert, 2008), whose authors kindly allowed us to include part of their IAPS Tech Report A-8 material (classic SAM scales of valence, arousal, and dominance) and procedures (method and instructions for participants) in the Tech Manual that we provide for the Open Library of Affective Foods.*

For additional information on the IAPS, please contact the IAPS original authors or refer to:

*Lang, P.J., Bradley, M.M., & Cuthbert, B.N. (**2008**). International affective picture system (IAPS): Affective ratings of pictures and instruction manual. Technical Report A-8. University of Florida, Gainesville, FL.*

Introduction

In research on healthy and pathological food cue processing, **food images** are commonly used to prompt subjective, behavioral, and psychophysiological reactions in the laboratory. However, to date most researchers develop and employ their own set of food pictures, making it hard to control experimental stimuli and replicate studies within and across different research laboratories. Notable exceptions, although substantially different from the present set, are the collections of food images recently developed by Foroni and colls. ("FRIDa", 2013), and by Blechert and colls. ("Food.pics", 2014). Please, see Miccoli et al. (2014) for an overlook of the features of each set.

In emotion research, the **International Affective Picture System** (IAPS, Lang et al., 2008) is a set of approximately 1200 images of diverse contents, which in the last twenty-five years has emerged as a reliable tool to prompt emotions in the laboratory. Images from the IAPS are passively viewed ("affective picture viewing paradigm") and affectively rated by large samples of participants according to the basic emotional dimensions of valence, arousal, and dominance, thus providing "normative affective ratings" of each picture. IAPS normative ratings have proved a powerful and reliable keystone to investigate the behavioral and psychophysiological correlates of emotional cue processing.

The main feature of the **Open Library of Affective Foods (OLAF)** is applying the "affective picture viewing paradigm" to a new set of original food pictures, with the goal of helping researchers investigating emotions associated with food in healthy as

well as in eating-disordered and obese populations. Accordingly, OLAF food images are presented interspersed with affective and neutral images from the IAPS, and all images are affectively rated by large samples of participants (adolescents, in this first version). Images from the IAPS serve as a benchmark for affective ratings, guaranteeing the reliability of the affective ratings that the adolescents provide.

OLAF has been **specifically created for its use with affective pictures from the IAPS. However**, as it happened with images from the IAPS, they could be used separately and in different experimental contexts, although they would not be used up to their potential (i.e., including less affective categories, like excluding pleasant and presenting only neutral and unpleasant images, does not allow to draw more conclusive inferences on the underlying emotional processes).

In the IAPS, to assess the dimensions of pleasure, arousal, and dominance, the **Self-Assessment Manikin (SAM),** an affective rating system devised by Lang (1980) was used. In this system, a graphic figure depicting values along each of the 3 dimensions on a continuously varying scale is used to indicate emotional reactions. (For more details, please see the IAPS Tech Report).

More recently, members of our research group created an **additional SAM food craving scale**, originally developed for tobacco cravings (Muñoz et al., 2010). The SAM craving scale ranges from a face with a drooling mouth to a face with a mouth shut (see SAM on the bottom right, in figure 1), allowing participants to report whether looking at the picture they feel or not

"a very strong craving, appetite, desire to eat". (For details on SAM instructions to participants, please see below).

Normative rating procedure
for OLAF ADOLESCENTS' ratings

The normative rating procedure is fundamentally based on the procedure provided in the IAPS Tech Manual (2008).

Each picture set that was rated consisted of 60 pictures: 24 food pictures (different in each set) and 36 IAPS pictures (the same in every set, but presented in a different order). SAM ratings of pleasure, arousal, dominance, and food craving were made immediately after each picture was presented. In this first version of OLAF, we created 4 Picture sets in order to affectively rate a total of 96 OLAF food images. Tables 1, 2 & 3 list the mean ratings for these pictures for all participants (Table 1), for boys only (Table 2) and for girls only (Table 3).

Participants. SAM ratings were collected from 559 high school students (284 females; aged 11 yrs 1 mo thru 17 yrs 3 mo, mean age = 14.2 yrs) from downtown Granada, Spain, who rated one of the 4 picture orders we created. Accordingly, each OLAF and IAPS image was rated by an average of 139.75 individuals.

Design. Participants were run in groups of maximum 28 individuals, with a constant 1:1 male:female ratio for any single group session. Four different picture orders were used, which balanced the position of a particular exemplar within the entire series of pictures and prevented repetitions of the same food or

affective category. The three classic SAM dimensions, and the additional food craving SAM, served as dependent measures.

Materials and Equipment. **Selection of IAPS pictures.** For ethical reasons related to the youth of the sample, no IAPS pictures of mutilations and erotica were included. Each affective valence category (pleasant, neutral, unpleasant) included 12 images, selected to be perceptually as comparable as possible across different affective categories. Here is the complete list of the 36 chosen IAPS pictures. Pleasant: 8490, 8185, 8496, 8370, 8499, 5621, 1710, 1722, 2045, 2071, 2075, 2347; neutral: 2038, 2393, 2411, 2570, 2580, 2273, 2036, 2308, 2382, 2390, 2579, 2745.1; unpleasant: 2095, 2703, 2800, 2900, 9530, 9520, 2683, 9163, 9250, 9254, 9421, 9423. The means (and standard deviations) of the normative values in the valence scale for the selected IAPS pictures were: 7.73 (1.43) for pleasant pictures, 5.32 (1.26) for neutral pictures, and 2.29 (1.44) for unpleasant pictures. In the arousal scale the mean values were: 6.08 (2.20) for pleasant pictures, 3.27 (1.92) for neutral pictures, and 5.69 (2.18) for unpleasant pictures.

Creation of OLAF food images. The different food categories were identified after consulting with members of the Department of Nutrition and Bromatology from the University of Granada. Food categories were identified on two extremes: on one extreme, food whose recommended frequency of consumption is high (low-calorie foods), with the further distinction between fruits and vegetables; on the other extreme, food whose recommended frequency of consumption is low (high-calorie foods), with the further distinction between sweet high-fat and salty high-fat foods. To select food images, using a Nikon D3000 digital camera a large amount of digital pictures (approximately 2000) was first taken to depict the chosen food categories: salty high-fat, sweet high-fat, veggies, and fruits. From this initial set, up to 50 pictures were selected for each food category. Subsequently, eighteen independent raters evaluated each food picture using a 1-9 Likert scale to report the extent to which each food picture was attractive and appetizing. The ratings were subsequently converted into Z scores to circumvent individual differences in the use of the scale. The final set of 96 food pictures includes 24 images per category consistently rated as more attractive/appetizing compared with the average (all Z score ratings >= 0). Furthermore, within each food category (salty high-fat, sweet high-fat, veggies, and fruits) we identified 6 subtypes of food that were consistently rated as more appetizing (ice-cream, donuts, pastries, candies, crepes, and waffles for the sweet high-fat category; chips with egg/cheese, pizza, dumplings, tortilla/croquettes, ham, and meat dish for the salty high-fat category; fruit salad, strawberries, cut pineapple, fruit skewers, fruit slices cut, and extended fruit for the fruits category; and tomato salad, mixed salad, avocado salad, cold vegetable soup, grilled vegetables, and vegetable skewers for the veggies category). Accordingly, we included 4 different examples of each sub-type within each category. The rationale was to provide perceptually similar stimuli for future psychophysiological studies where, for example, it is necessary to create different sets of food images, while minimizing perceptual differences among sets. A careful reader might note that the inclusion of some specific food items is not precise (e.g. "candies" are high in sweet but not in fat; the "avocado salad" is high in fat despite being a vegetable). The necessity to create diverse food items within each food category, combined with the need of presenting foods in an attractive and appetizing fashion, forced us to compromise on some food items.

In addition to the 60 images (24 OLAF & 36 IAPS) rated in each Picture Set, 4 practice pictures were viewed prior to the experimental ratings: 2340 (family), 7950 (tissue), 9908 (car accident) and food (an original picture of a birthday cake). These pictures provided participants with a rough range of the types of contents that was going to be presented, as well as serving to anchor the emotional rating scales.

Procedure. At the beginning of each experimental session, the experimenter read verbatim the instructions for the use of the SAM scales (below). The instructions were accompanied by Power Point-like slides aimed to help participants understand the instructions and pay attention.

Whenever the participants expressed doubts on the use of the scales, the same experimenter reread the instructions without providing additional interpretations. Typically, the experimenter repeated all the adjectives describing each SAM scale (in Italic in the "Instructions" below).

A paper-and-pencil version of the Self-Assessment Manikin (Lang, 1980) in booklet format was used to acquire affective ratings for Picture Set 1-4. In this format, the (unlabeled) dimensions of valence, arousal, control/dominance and food craving are graphically rendered (see Figure 1). Each of the 4 dimensions is ordinally scaled with 5 figures. The participant can select any figure or any space between the figures by placing an 'X', resulting in a 9-point rating scale.

Experimental sessions were conducted in assembly halls with windows shuttered to keep lighting conditions constant. Participants were seated in rows of 90 degree arcs facing the screen on which the slides were projected. The stimuli had on average a size of 2.24 m (horizontal) and 1.7 m (vertical). The screen was set at an average distance of 6.58 m from the participants, thus, on average, subtending a visual angle (19.32° horizontal and 14.72° vertical) that should maximize affective reactions to pictures (De Cesarei & Codispoti, 2006).

Each trial began with a preparation slide ("Get ready to rate the next slide") that was presented for 5 second. Then, the picture to be rated was presented for 6 s, and immediately AFTER the picture left the screen, participants made their ratings of pleasure, arousal, dominance and food craving using SAM. A 20 s rating period was used, which allowed ample time for participants to make the four SAM ratings.

SAM Instructions: Adolescent Participants

English version

NOTE: The original IAPS instructions for children, translated into Spanish, were taken from the IAPS Tech Manual (2008) to explain the affective dimensions in language easier for adolescents to understand. Similarly, the instructions for the food craving SAM scale were adapted to the format of the classic SAM scales.

We are here to show you some pictures. We need to know how you feel when you see these pictures so that we can learn more about Spanish adolescents' feelings. You will see lots of slides showing different things that may make you feel happy or unhappy,

with or without desire to eat, excited or relaxed, or maybe even angry, scared, or thrilled. Everyone will feel differently about each slide. There are no wrong answers. Whatever you feel is the right answer to put on the page. What we are doing today is very important. You need to listen carefully to the instructions so you will be able to fill everything out correctly. Also, during the slide show it is very important that you not talk or laugh or make comments to your classmates. If you talk, the experiment will be ruined and we will have to go back to the classroom. Does everyone understand? This is very important.

To help you tell us how you felt when you saw the slide, we are going to use SAM. You each have a page that has SAM on it. Is there anyone who doesn't have a copy of SAM, please hold up your hand? SAM has helped lots of people tell us how they feel.

After you see each slide, you will be able to tell us how you felt when you looked at the slide by marking the picture of SAM that best shows how you felt. Again, there are no right or wrong answers. Just tell us how you felt when you saw the slide.

Looking at the test page, you see that the first row has five pictures of SAM. Notice that on one side, SAM is frowning, on the other side, SAM is smiling, and in the middle, SAM is not smiling or frowning. These pictures are in order from a very unhappy SAM to a very happy SAM. Looking up at the screen, you can see that there is a big X on the picture of SAM that shows him smiling very big. This is where you would put a mark if the slide you had just seen made you feel *happy, glad, cheerful, pleased, good, or hopeful*. On this slide, there is an X on the picture of SAM frowning. This is

where you would put your mark if you felt *unhappy, scared, angry, bad, or unhappy*. If you feel neutral, that is, if you didn't feel either happy or unhappy, then you can put an X over the picture of SAM that is not smiling or frowning. If you felt in between being very happy and a little bit happy, you could put an X between pictures of SAM, like this.

Now let's look at the second feeling. This row shows pictures of SAM when SAM is very still and his eyes are closed. You would use this SAM if you felt *very calm, relaxed, bored or sleepy*. You would use the SAM on the other side of the row, if you felt *very excited, nervous, jittery, active or wide awake* on one side. Notice how it looks like SAM is jumping up and down and his stomach is excited. This is like when you get excited and can't sit still or like you have butterflies in your stomach when you are very nervous. Use this row to tell how excited or calm **you** felt when you saw the slide. If you are very excited, enthusiastic, nervous, scared, or wide awake you would put an **X** over here, like this. If you feel calm, relaxed, or sleepy, place an **X** here, like this. Just like the first row, you can put an **X** between pictures like this. If you felt in between calm and sleepy and very excited, you could put an **X** between pictures of SAM, like this.

The third row shows SAM very little and getting bigger and bigger. Sometimes, you feel *unimportant or out of control, bullied, like someone else is the leader or in charge, or like you can't handle the situation* when you watch the slide. This is how you feel when SAM is very small. Other times, you feel *important or very big or like you don't need anyone's help*. This is how you feel when SAM is very big. You can use this row to show how you felt when you

saw the slide. If you felt grown up and able to handle the situation, then you would put an **X** on the big SAM, like this. If you felt more like you couldn't handle the situation and small then you would put an **X** on the little SAM, like this. You can also put an **X** in between pictures like this.

In the last row on the left, SAM drools and his eyes are wide open. You should use this SAM if you felt a *very strong craving, appetite, desire to eat*. On the other side, SAM´s eyes are closed and his mouth is shut. You may mark this SAM if you *did not feel any craving, appetite, desire to eat*. Use this line to tell us how you felt while you were watching the picture: If you felt a strong desire to eat or none at all. If you felt a strong desire to eat, you may put an X here, like this. If you did not feel any desire to eat at all, you should put an X here, in this way. You can also put the X between SAMs.

Now we will see some slides and practice using SAM to show how you felt. Each picture will be on the screen for a little while, and then another slide will come on telling you to rate the picture you just saw. When you see this slide, you should mark SAM to show how you felt when you were looking at the picture. Then, another slide will come on telling you that the next picture is coming up. I want to remind you that there are no right or wrong answers, just put down how you felt when you were looking at the slide. Also, please remember there is no talking. This includes no laughing or making sounds. We will have to stop the show if you make a lot of noise. If you have a question, raise your hand and we will come to you.

You will have a chance to talk about the slides and your feelings after the experiment is over.

If you do not want to be in this experiment, you should leave now. Some children may not like to watch the pictures. If you feel that way now or at any time during the experiment, you can go back to the classroom.

Are there any questions?

Show Sample Images

Important: You have to look at the picture the entire time that it is on the screen, until the next message appears: "Please, rate the image you've just seen".

Show Experimental Images

Spanish version

Estamos aquí para mostraros algunas imágenes. Necesitamos saber cómo os sentís al verlas, para aprender más sobre los sentimientos de los adolescentes españoles. Veréis muchas imágenes donde se muestran diferentes cosas que os pueden hacer sentir felices o tristes, con o sin ganas de comer, excitados o relajados, incluso enfadados o asustados. Cada persona se sentirá de manera diferente al mirar cada imagen. No hay respuestas incorrectas. Lo que TÚ sientas es la respuesta correcta que tienes que poner en la hoja. Lo que estamos haciendo hoy es muy importante. Tienes que escuchar las instrucciones con mucho cuidado para poder hacerlo bien. También es muy importante que durante la presentación de las imágenes no hables, te rías o hagas comentarios con tus compañeros. Si hablas, se estropeará el experimento y tendremos que regresar a la clase. ¿Todo el mundo lo ha entendido? Esto es muy importante.

Para ayudarte a decirnos cómo te sentiste al mirar cada imagen vamos a utilizar a SAM. Todos tenéis una hoja con SAM. ¿Hay alguien que no tenga una copia de SAM? Si es así, por favor, que levante la mano. SAM ha ayudado a muchas personas a decir cómo se sienten.

Después de mirar cada imagen, podrás decirnos cómo te sentiste cuando mirabas la imagen, marcando la figura de SAM que muestre mejor cómo te sentiste. De nuevo, no hay respuestas correctas ni incorrectas. Sólo dinos cómo te sentiste cuando mirabas la imagen.

Si miras la "hoja de prueba" verás que la primera fila de la izquierda contiene cinco figuras de SAM. Fíjate que en un extremo SAM está con el rostro fruncido, en el otro extremo SAM está sonriendo, y en el centro SAM no está ni sonriendo ni con el rostro fruncido. Estas imágenes están ordenadas desde un SAM muy triste hasta un SAM muy feliz. Si miras a la pantalla, puedes ver que hay una X grande sobre la figura de SAM que está sonriendo mucho. Aquí es donde marcarías si la imagen que acabas de ver te hacía sentir *feliz, contento, alegre, satisfecho, bien u optimista*. Por el contrario, aquí hay una X sobre la figura de SAM con el rostro fruncido. Aquí es donde marcarías si te sentiste *triste, asustado, furioso, mal o infeliz*. Si te sentiste neutral, o sea, que ni feliz ni infeliz, puedes poner una X sobre la figura de SAM que no está ni sonriendo ni con el rostro fruncido. También puedes poner una X entre un SAM y otro si te sentiste entre muy feliz y muy infeliz, como aquí.

Ahora echamos un vistazo al segundo sentimiento, en la primera fila de la derecha. Esta fila muestra a SAM muy tranquilo y con los ojos cerrados. Deberías usar este SAM si te sentiste *muy calmado, relajado, aburrido o adormilado*. Sin embargo, usarías SAM en el otro extremo de esta fila si te sentiste *muy excitado, nervioso, inquieto, activo o absolutamente despierto*. Fíjate cómo parece que SAM está saltando arriba y abajo, y su estómago está revuelto. Esto es como cuando estás excitado y no puedes estar quieto sentado, o cuando tienes mariposas en el estómago y estás muy nervioso. Usa esta fila para decirnos cómo TÚ te sentiste de excitado o de calmado cuando mirabas la imagen. Si te sentiste muy excitado, entusiasmado, nervioso, asustado o absolutamente despierto, deberías poner una X aquí, de esta manera. Si te sentiste

tranquilo, relajado o adormilado, pon la X aquí. Como en la fila anterior, si te sentiste entre calmado y muy excitado, podrías poner una X entre estas imágenes de SAM, de esta forma.

En la tercera fila de la izquierda aparece un SAM muy pequeñito y se va haciendo cada vez más grande. Algunas veces, tú te sientes *nada importante o fuera de control, intimidado, como si otra persona fuera el líder o como si no pudieras manejar la situación* mientras miras la imagen. Así es como te sientes cuando SAM es muy pequeño. Otras veces, te sientes *importante o muy grande, como si no necesitaras la ayuda de nadie*. Así es como te sientes cuando SAM es muy grande. Puedes usar esta fila para decirnos cómo te sentiste cuando mirabas la imagen. Si te sentiste crecido y capaz de manejar la situación, deberías poner una X en el SAM grande, de esta forma. Si te sentiste más como que no podías manejar la situación y muy pequeñito, pondrías la X sobre el SAM pequeño. También puedes poner la X entre las imágenes de SAM, así.

En la última fila de la izquierda, SAM babea y tienes los ojos muy abiertos. Deberías usar este SAM si, TÚ sentiste *mucha ansia, apetito, deseo de comer*, cuando mirabas la imagen. En el otro extremo, SAM tiene los ojos casi cerrados y la boca muy cerrada. Marcarías este SAM si TÚ *NO sentiste ansia, apetito, ni deseo de comer*. Usa esta línea para decirnos cómo TÚ te sentiste cuando mirabas la imagen: si sentiste muchísimo deseo de comer o ningún deseo de comer. Si sentiste mucho deseo de comer, deberías poner una X aquí, de esta manera. Si no sentiste ningún deseo de comer, deberías poner una X aquí, de esta forma. También puedes poner la X entre las figuras de SAM.

Ahora veremos algunas imágenes de prueba, de manera que practiques usando SAM para decirnos cómo te has sentido. Cada imagen permanecerá en la pantalla un ratito, luego otra diapositiva te dirá que evalúes la imagen que acabas de ver. Cuando veas este mensaje, debes marcar SAM para decirnos cómo te sentiste cuando mirabas la imagen. Después, otra diapositiva aparecerá para decirte que otra imagen va a aparecer. Me gustaría recordarte que NO hay respuestas correctas ni incorrectas, sólo apunta cómo te sentiste cuando mirabas la imagen. Por favor, recuerda que no se puede hablar. Esto incluye no reírse ni hacer ruidos. Tendremos que parar la proyección si hacéis mucho ruido. Si alguien tiene una pregunta que hacer, que levante la mano y nos acercaremos.

Podréis comentar las imágenes y compartir vuestros sentimientos con los demás una vez el experimento haya terminado.

Si alguien no quiere participar en este experimento, debería salir ahora. A algunos chicos y chicas puede no gustarles ver las imágenes. Si te sientes así en este momento, o en algún momento durante el experimento, puedes volver a tu clase.
¿Hay alguna pregunta?

Imágenes de Prueba

Muy importante: Tenéis que mirar la imagen todo el tiempo, hasta que veáis el mensaje: "Por favor, evalúa la imagen que acabas de ver".
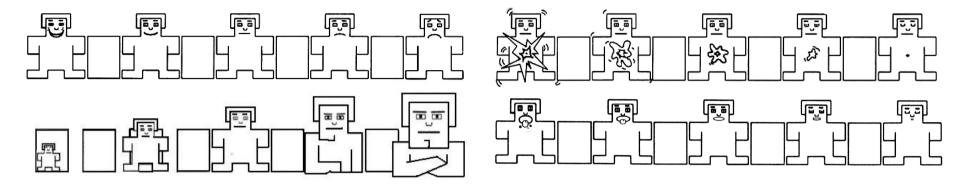
Figure 1. Example: SAM sheet used to obtain SAM ratings for OLAF and IAPS pictures in set 1–4.

Tables

Table 1. Means and standard deviations of each picture in the OLAF for all subjects.

Table 2. Means and standard deviations of each picture in the OLAF for Male subjects.

Table 3. Means and standard deviations of each picture in the OLAF for Female subjects.

All Participants

Description	Pic Code	Valence Mean (SD)	Arousal Mean (SD)	Dominance Mean (SD)	Craving Mean (SD)	Description	Pic Code	Valence Mean (SD)	Arousal Mean (SD)	Dominance Mean (SD)	Craving Mean (SD)
ChipsCheese	fat_0012	6,24(2,14)	3,28(2,47)	6,05(2,30)	4,82(2,99)	Pizza	fat_6053	6,40(2,21)	3,80(2,88)	6,00(2,10)	4,69(3,16)
ChipsEggs	fat_0018	7,05(2,04)	3,86(2,82)	6,08(2,17)	5,93(2,87)	Pizza	fat_6054	7,07(1,85)	4,26(2,76)	6,25(1,72)	5,81(2,85)
ChipsEggs	fat_0022	6,71(1,79)	4,18(2,57)	6,02(1,82)	5,67(2,75)	Dumplings	fat_6439	6,92(2,09)	4,46(2,98)	6,16(1,98)	6,01(2,88)
MeatDish	fat_0029	6,70(1,97)	4,19(2,67)	5,90(2,11)	5,91(2,81)	Croquettes	fatfood3	7,31(1,86)	4,62(2,93)	6,34(1,98)	6,35(2,71)
Ham	fat_0036	7,10(2,01)	4,00(2,87)	6,10(2,40)	5,91(2,87)	FruitSkewers	fru_0015	7,01(1,98)	3,59(2,74)	6,23(2,00)	5,53(2,95)
ChipsCheese	fat_0037	7,24(1,96)	4,23(2,78)	6,40(1,98)	6,51(2,69)	FruitSalad	fru_0024	7,17(2,01)	3,62(2,66)	6,10(1,92)	5,52(2,91)
Tortilla	fat_0038	7,16(1,73)	3,88(2,62)	6,28(2,20)	5,91(2,72)	FruitSlicesCut	fru_0083	7,12(1,61)	3,52(2,45)	6,23(1,89)	5,62(2,68)
Dumplings	fat_0042	5,80(2,20)	3,52(2,63)	5,56(1,98)	4,01(2,92)	FruitSlicesCut	fru_0103	7,34(1,77)	3,96(2,65)	6,27(2,16)	5,75(2,81)
MeatDish	fat_0055	6,91(2,06)	4,08(2,70)	6,02(2,37)	5,77(2,97)	Strawberry	fru_0144	7,54(1,50)	4,20(3,03)	6,41(1,84)	5,95(2,81)
MeatDish	fat_0075	7,29(1,76)	4,26(2,79)	6,34(1,90)	6,55(2,59)	FruitSalad	fru_0190	6,77(1,79)	3,16(2,27)	6,10(1,97)	5,30(2,78)
Croquettes	fat_0083	7,28(1,74)	4,03(2,83)	6,30(2,19)	6,13(2,91)	ExtendedFruit	fru_0289	6,95(1,71)	3,89(2,91)	6,25(1,90)	5,65(2,79)
MeatDish	fat_0107	6,95(2,06)	4,26(2,76)	6,34(2,29)	6,12(2,85)	Strawberry	fru_0337	7,34(1,56)	4,12(2,75)	6,33(1,93)	5,60(2,81)
Ham	fat_0118	7,21(2,11)	4,36(2,85)	6,34(2,42)	6,26(2,85)	FruitSkewers	fru_0384	6,83(1,86)	3,26(2,47)	6,14(2,23)	5,06(2,95)
Ham	fat_0156	7,10(1,88)	4,13(2,90)	6,10(1,97)	6,05(2,78)	CutPineapple	fru_0492	6,97(1,73)	3,51(2,49)	5,93(1,77)	5,24(2,94)
Ham	fat_0242	7,02(2,02)	4,45(3,01)	6,59(1,94)	6,15(2,83)	CutPineapple	fru_0495	6,99(1,78)	3,81(2,72)	6,32(1,91)	5,35(2,84)
Dumplings	fat_0611	6,08(1,97)	3,11(2,32)	5,90(2,06)	4,42(2,76)	FruitSkewers	fru_0511	7,23(1,60)	3,94(2,70)	6,29(1,92)	5,72(2,66)
Pizza	fat_0655	7,41(2,05)	4,39(3,05)	6,28(2,36)	6,45(2,89)	FruitSlicesCut	fru_0553	6,33(2,04)	3,47(2,58)	5,85(2,17)	4,65(2,96)
Dumplings	fat_0721	5,47(2,19)	3,30(2,40)	5,70(2,44)	4,29(2,92)	FruitSkewers	fru_0593	6,73(2,10)	3,37(2,60)	6,01(2,40)	5,36(2,90)
Tortilla	fat_5515	7,06(1,67)	4,11(2,71)	6,25(1,86)	5,74(2,74)	ExtendedFruit	fru_0613	6,78(1,88)	3,77(2,62)	6,08(2,01)	5,23(2,96)
Pizza	fat_5557	7,48(1,96)	4,59(3,00)	6,57(2,32)	6,55(2,87)	FruitSalad	fru_0670	7,38(1,51)	3,84(2,75)	6,45(1,89)	5,77(2,43)

All Participants

Description	Pic Code	Valence Mean (SD)	Arousal Mean (SD)	Dominance Mean (SD)	Craving Mean (SD)	Description	Pic Code	Valence Mean (SD)	Arousal Mean (SD)	Dominance Mean (SD)	Craving Mean (SD)
FruitSalad	fru_0683	7,14(1,85)	4,08(2,73)	6,36(2,11)	5,96(2,73)	IceCream	sug_0135	7,60(1,67)	4,41(2,83)	6,50(2,02)	6,30(2,76)
ExtendedFruit	fru_1902	6,85(2,09)	3,61(2,53)	5,99(2,38)	5,37(2,81)	Crepes	sug_0141	7,77(1,45)	4,77(2,86)	6,59(1,97)	6,68(2,66)
CutPineapple	fru_5515	6,83(1,97)	3,61(2,53)	6,15(2,19)	5,41(2,75)	Pastries	sug_0147	6,80(2,05)	3,90(2,80)	5,99(2,12)	5,68(2,88)
FruitSlicesCut	fru_5595	6,70(2,00)	3,66(2,61)	6,10(2,28)	5,47(2,81)	Donuts	sug_0150	7,41(1,81)	4,18(2,68)	6,54(2,00)	6,27(2,80)
CutPineapple	fru_5772	6,48(2,11)	3,27(2,62)	6,00(2,11)	4,59(2,84)	Pastries	sug_0151	6,96(2,00)	3,84(2,83)	6,41(2,13)	5,46(2,95)
Strawberry	fru_5782	7,16(1,91)	3,89(2,76)	6,18(2,29)	5,47(2,94)	Donuts	sug_0152	7,68(1,58)	4,81(2,92)	6,69(1,80)	6,57(2,65)
Strawberry	fru_5795	7,08(1,89)	3,95(2,80)	6,23(2,15)	5,54(2,82)	Donuts	sug_0157	7,59(1,78)	4,65(3,04)	6,56(2,10)	6,90(2,46)
ExtendedFruit	fru_5833	7,17(1,90)	3,88(2,84)	6,20(2,18)	5,47(2,94)	Pastries	sug_0166	6,90(1,95)	4,05(2,68)	6,13(2,13)	5,52(2,92)
Crepes	sug_0013	7,46(1,94)	4,63(2,76)	6,42(2,04)	6,51(2,62)	Pastries	sug_152.	7,11(1,69)	4,18(2,75)	6,22(1,88)	5,43(2,90)
Waffles	sug_0014	7,49(1,85)	4,73(2,86)	6,45(2,21)	6,46(2,85)	Crepes	sug_4009	7,12(1,97)	4,38(2,85)	6,20(2,21)	6,28(2,90)
Waffles	sug_0018	7,49(1,79)	4,63(3,01)	6,42(2,19)	6,72(2,62)	Crepes	sug_4011	7,13(2,05)	4,27(2,89)	6,05(2,28)	6,03(2,83)
Donuts	sug_0043	7,33(2,10)	4,31(2,89)	6,04(2,33)	6,34(2,75)	Waffles	sug_4421	7,92(1,57)	5,27(3,02)	6,57(2,20)	7,15(2,53)
Waffles	sug_0072	7,42(2,13)	4,43(3,00)	6,49(2,21)	6,61(2,76)	ColdSoup	veg_0002	5,85(2,33)	3,16(2,43)	6,08(2,24)	4,14(2,97)
Candies	sug_0083	7,74(1,88)	5,42(2,99)	6,62(2,09)	6,73(2,77)	VegetableSkewer	veg_0005	5,13(1,97)	2,68(1,96)	5,36(2,19)	3,31(2,49)
Candies	sug_0096	7,42(1,90)	4,47(2,81)	6,30(1,99)	6,01(2,92)	TomatoSalad	veg_0011	5,46(2,19)	3,04(2,47)	5,55(2,16)	3,62(2,63)
Candies	sug_0099	7,38(1,80)	4,22(2,65)	6,16(2,26)	5,77(2,73)	AvocadoSalad	veg_0012	5,59(2,00)	2,97(2,32)	5,56(2,02)	3,60(2,73)
Candies	sug_0101	7,44(1,98)	4,42(2,98)	6,43(2,34)	5,99(2,70)	ColdSoup	veg_0048	5,19(1,93)	2,60(2,08)	5,15(2,45)	3,25(2,61)
IceCream	sug_0112	7,34(1,79)	4,01(2,87)	6,31(2,32)	5,88(2,81)	AvocadoSalad	veg_0070	5,86(1,90)	2,86(2,35)	5,94(1,84)	3,58(2,84)
IceCream	sug_0113	7,52(1,73)	4,44(3,00)	6,33(2,01)	6,41(2,70)	GrilledVegetables	veg_0079	5,34(2,19)	2,84(2,31)	5,51(2,15)	3,51(2,85)
IceCream	sug_0116	6,04(1,99)	3,19(2,46)	5,93(2,33)	4,13(2,73)	VegetableSkewer	veg_0085	5,87(1,85)	2,94(2,29)	5,89(1,88)	3,53(2,62)

All Participants

Description	Pic Code	Valence Mean (SD)	Arousal Mean (SD)	Dominance Mean (SD)	Craving Mean (SD)
VegetableSkewer	veg_0092	5,38(2,13)	2,79(2,42)	5,63(2,15)	3,30(2,71)
TomatoSalad	veg_0109	6,27(1,96)	3,37(2,48)	6,03(2,42)	4,63(3,00)
ColdSoup	veg_0113	5,61(2,21)	2,69(2,25)	5,63(2,06)	3,75(2,88)
TomatoSalad	veg_0114	6,30(1,92)	3,13(2,44)	5,90(1,76)	4,42(2,80)
VegetableSkewer	veg_0118	5,43(2,37)	3,01(2,25)	5,49(2,44)	3,99(2,86)
MixedSalad	veg_0125	6,19(2,05)	3,39(2,59)	5,99(2,31)	4,41(3,00)
AvocadoSalad	veg_0133	5,42(1,86)	2,63(2,13)	5,48(2,11)	3,06(2,47)
MixedSalad	veg_0135	6,11(1,89)	2,97(2,53)	5,93(1,96)	4,06(2,75)
AvocadoSalad	veg_0148	5,49(2,06)	2,63(1,96)	5,53(2,41)	3,83(2,81)
MixedSalad	veg_0152	5,61(1,98)	3,01(2,26)	5,63(2,10)	3,74(2,84)
GrilledVegetables	veg_0186	5,28(2,00)	2,84(2,22)	5,65(2,06)	3,45(2,64)
GrilledVegetables	veg_0198	5,88(1,99)	3,38(2,33)	5,72(2,30)	4,54(2,87)
MixedSalad	veg_0281	5,59(2,00)	2,91(2,13)	5,91(2,18)	3,77(2,61)
ColdSoup	veg_0455	6,00(2,06)	3,15(2,45)	5,94(1,91)	4,35(3,04)
TomatoSalad	veg_0725	5,70(2,08)	3,12(2,43)	5,73(2,02)	3,91(2,71)
GrilledVegetables	vegofood	5,77(2,06)	3,01(2,50)	5,99(1,95)	3,8(2,920)

Male Participants

Description	Pic Code	Valence Mean (SD)	Arousal Mean (SD)	Dominance Mean (SD)	Craving Mean (SD)	Description	Pic Code	Valence Mean (SD)	Arousal Mean (SD)	Dominance Mean (SD)	Craving Mean (SD)
ChipsCheese	fat_0012	6,29(2,03)	3,33(2,51)	5,81(2,45)	5,20(2,89)	Pizza	fat_6053	6,63(2,28)	3,87(2,93)	6,26(2,19)	4,84(3,25)
ChipsEggs	fat_0018	7,11(1,69)	4,13(2,88)	6,66(2,04)	6,51(2,57)	Pizza	fat_6054	7,09(1,74)	4,66(2,88)	6,18(1,84)	6,45(2,68)
ChipsEggs	fat_0022	6,72(1,86)	4,24(2,65)	6,21(1,71)	5,84(2,76)	Dumplings	fat_6439	7,15(1,76)	4,92(3,01)	6,08(2,09)	6,69(2,52)
MeatDish	fat_0029	6,63(2,11)	4,22(2,73)	6,10(2,23)	6,00(2,78)	Croquettes	fatfood3	7,35(1,71)	4,97(2,95)	6,38(2,07)	6,69(2,49)
Ham	fat_0036	7,03(1,93)	4,41(3,14)	6,50(2,51)	6,19(2,74)	FruitSkewers	fru_0015	6,69(2,12)	3,31(2,45)	6,10(2,07)	5,50(3,03)
ChipsCheese	fat_0037	7,17(1,94)	4,42(2,88)	6,55(1,84)	6,86(2,64)	FruitSalad	fru_0024	7,16(2,16)	3,39(2,65)	6,44(1,87)	5,47(3,10)
Tortilla	fat_0038	7,50(1,62)	4,04(2,68)	6,27(2,24)	6,29(2,70)	FruitSlicesCut	fru_0083	7,03(1,62)	3,45(2,32)	6,23(1,76)	5,88(2,65)
Dumplings	fat_0042	5,96(2,36)	3,61(2,62)	5,78(1,83)	4,12(3,07)	FruitSlicesCut	fru_0103	7,04(1,95)	3,59(2,64)	6,22(2,03)	5,60(3,00)
MeatDish	fat_0055	7,20(1,82)	4,58(2,72)	6,23(2,47)	6,35(2,55)	Strawberry	fru_0144	7,38(1,51)	4,56(3,12)	6,46(1,81)	6,25(2,68)
MeatDish	fat_0075	7,36(1,69)	4,42(2,87)	6,45(1,78)	7,11(2,46)	FruitSalad	fru_0190	6,66(1,72)	3,16(2,21)	6,46(2,00)	5,44(2,70)
Croquettes	fat_0083	7,34(1,63)	4,13(2,92)	6,50(2,16)	6,57(2,61)	ExtendedFruit	fru_0289	6,78(1,73)	3,69(2,70)	6,09(1,81)	5,68(2,70)
MeatDish	fat_0107	6,96(2,09)	4,27(2,78)	6,27(2,55)	6,37(2,84)	Strawberry	fru_0337	7,19(1,61)	3,87(2,80)	6,31(1,95)	5,66(2,97)
Ham	fat_0118	7,51(2,00)	4,61(2,84)	6,51(2,38)	6,49(2,72)	FruitSkewers	fru_0384	6,93(1,67)	3,56(2,67)	6,59(2,16)	5,23(2,92)
Ham	fat_0156	7,06(2,01)	4,24(2,96)	6,07(1,98)	6,22(2,85)	CutPineapple	fru_0492	6,88(1,72)	3,55(2,52)	6,00(1,85)	5,38(2,98)
Ham	fat_0242	6,97(1,85)	4,46(3,09)	6,54(2,02)	6,55(2,73)	CutPineapple	fru_0495	7,16(1,46)	4,16(2,63)	6,20(1,89)	5,92(2,64)
Dumplings	fat_0611	6,15(1,98)	3,44(2,48)	6,11(2,14)	4,97(2,62)	FruitSkewers	fru_0511	7,03(1,57)	3,83(2,66)	6,28(1,86)	5,72(2,55)
Pizza	fat_0655	7,63(1,66)	4,79(3,12)	6,43(2,34)	7,09(2,50)	FruitSlicesCut	fru_0553	6,30(1,92)	3,63(2,68)	5,82(2,33)	4,80(2,91)
Dumplings	fat_0721	5,47(2,28)	3,41(2,37)	5,79(2,43)	4,93(2,89)	FruitSkewers	fru_0593	6,79(2,07)	3,49(2,63)	6,00(2,48)	5,83(2,87)
Tortilla	fat_5515	6,94(1,84)	4,03(2,89)	6,12(2,03)	5,78(2,96)	ExtendedFruit	fru_0613	6,68(1,97)	3,66(2,61)	6,06(2,12)	5,35(3,05)
Pizza	fat_5557	7,44(2,06)	4,66(3,17)	6,48(2,48)	6,85(2,84)	FruitSalad	fru_0670	7,09(1,51)	3,80(2,68)	6,32(1,82)	5,85(2,33)

Male Participants

Description	Pic Code	Valence Mean (SD)	Arousal Mean (SD)	Dominance Mean (SD)	Craving Mean (SD)	Description	Pic Code	Valence Mean (SD)	Arousal Mean (SD)	Dominance Mean (SD)	Craving Mean (SD)
FruitSalad	fru_0683	7,17(1,81)	4,17(2,82)	6,48(2,20)	6,21(2,75)	IceCream	sug_0135	7,48(1,75)	4,42(2,80)	6,44(2,10)	6,58(2,74)
ExtendedFruit	fru_1902	6,90(1,96)	3,53(2,61)	6,03(2,41)	5,90(2,68)	Crepes	sug_0141	7,64(1,54)	4,94(2,87)	6,53(1,88)	6,86(2,75)
CutPineapple	fru_5515	6,51(2,23)	3,43(2,44)	5,83(2,22)	5,46(2,87)	Pastries	sug_0147	6,76(2,12)	3,88(2,94)	5,68(2,30)	6,18(2,97)
FruitSlicesCut	fru_5595	6,84(1,84)	3,76(2,50)	6,03(2,38)	5,79(2,69)	Donuts	sug_0150	7,41(1,81)	4,37(2,65)	6,71(1,93)	6,40(2,83)
CutPineapple	fru_5772	6,60(2,09)	3,69(2,78)	6,34(2,08)	5,21(2,68)	Pastries	sug_0151	7,03(1,99)	4,03(3,01)	6,83(2,12)	6,00(2,74)
Strawberry	fru_5782	7,14(1,78)	3,75(2,71)	6,07(2,34)	5,85(2,86)	Donuts	sug_0152	7,46(1,74)	4,69(2,84)	6,52(1,92)	6,82(2,51)
Strawberry	fru_5795	6,90(1,85)	4,41(2,88)	6,27(2,29)	5,83(2,61)	Donuts	sug_0157	7,45(2,00)	4,55(3,09)	6,55(2,22)	7,25(2,43)
ExtendedFruit	fru_5833	7,03(1,92)	4,26(3,04)	6,23(2,17)	5,89(2,86)	Pastries	sug_0166	7,00(1,95)	4,31(2,49)	6,09(2,17)	5,73(2,83)
Crepes	sug_0013	7,06(2,16)	4,21(2,71)	6,50(1,94)	6,40(2,74)	Pastries	sug_152.	7,14(1,69)	4,62(2,85)	6,28(1,79)	6,09(2,83)
Waffles	sug_0014	7,55(1,82)	4,97(2,95)	6,49(2,24)	6,94(2,60)	Crepes	sug_4009	6,96(2,16)	4,47(2,70)	5,87(2,34)	6,57(2,77)
Waffles	sug_0018	7,18(2,02)	4,25(3,01)	6,37(2,04)	6,81(2,61)	Crepes	sug_4011	7,18(1,81)	4,55(2,95)	6,18(2,26)	6,06(2,62)
Donuts	sug_0043	7,35(1,96)	4,82(2,85)	6,24(2,28)	6,58(2,61)	Waffles	sug_4421	7,58(1,73)	5,38(3,11)	6,34(2,35)	7,08(2,68)
Waffles	sug_0072	7,26(1,81)	4,54(3,01)	6,67(2,26)	6,71(2,62)	ColdSoup	veg_0002	5,87(2,40)	3,34(2,39)	5,90(2,27)	4,40(2,94)
Candies	sug_0083	7,54(1,80)	5,83(2,83)	6,51(2,05)	6,94(2,60)	VegetableSkewer	veg_0005	5,13(2,05)	2,94(2,15)	5,43(2,34)	3,69(2,46)
Candies	sug_0096	7,04(2,15)	4,31(2,90)	6,26(1,86)	6,15(2,99)	TomatoSalad	veg_0011	5,19(2,18)	3,37(2,66)	5,84(2,28)	3,54(2,48)
Candies	sug_0099	7,07(1,86)	4,06(2,44)	6,12(2,35)	5,72(2,63)	AvocadoSalad	veg_0012	5,51(2,22)	3,27(2,57)	5,82(2,03)	3,77(2,82)
Candies	sug_0101	7,27(1,78)	4,72(3,02)	6,66(2,20)	6,08(2,50)	ColdSoup	veg_0048	5,03(1,86)	2,43(1,84)	5,10(2,56)	2,89(2,26)
IceCream	sug_0112	7,43(1,66)	4,24(2,86)	6,60(2,36)	6,30(2,64)	AvocadoSalad	veg_0070	5,84(1,75)	3,02(2,41)	5,98(1,74)	3,79(2,83)
IceCream	sug_0113	7,35(1,97)	4,57(3,11)	6,32(2,11)	6,71(2,67)	GrilledVegetables	veg_0079	5,19(2,36)	2,72(2,17)	5,76(2,24)	3,53(2,85)
IceCream	sug_0116	5,99(2,11)	3,13(2,22)	5,82(2,56)	4,37(2,65)	VegetableSkewer	veg_0085	5,82(1,86)	3,14(2,39)	5,88(1,82)	3,88(2,60)

Male Participants

Description	Pic Code	Valence Mean (SD)	Arousal Mean (SD)	Dominance Mean (SD)	Craving Mean (SD)
VegetableSkewer	veg_0092	5,63(2,36)	3,03(2,53)	5,97(2,14)	3,74(2,88)
TomatoSalad	veg_0109	6,35(2,01)	3,62(2,58)	5,84(2,51)	4,83(2,98)
ColdSoup	veg_0113	5,72(2,48)	3,01(2,56)	5,80(2,27)	3,87(3,08)
TomatoSalad	veg_0114	6,25(1,71)	3,25(2,36)	5,88(1,78)	5,00(2,66)
VegetableSkewer	veg_0118	5,77(2,40)	3,39(2,33)	5,39(2,59)	4,57(2,96)
MixedSalad	veg_0125	6,25(2,05)	3,49(2,53)	5,79(2,31)	4,69(2,90)
AvocadoSalad	veg_0133	5,34(1,75)	2,77(2,02)	5,49(2,28)	3,04(2,37)
MixedSalad	veg_0135	6,14(1,82)	3,39(2,75)	5,64(2,02)	4,52(2,76)
AvocadoSalad	veg_0148	5,61(2,25)	2,60(1,86)	5,27(2,47)	4,17(2,90)
MixedSalad	veg_0152	5,55(2,06)	3,06(2,33)	5,90(1,90)	3,90(2,98)
GrilledVegetables	veg_0186	5,31(1,84)	3,00(2,30)	5,80(1,99)	3,50(2,57)
GrilledVegetables	veg_0198	6,19(1,94)	3,54(2,45)	5,84(2,47)	4,80(2,99)
MixedSalad	veg_0281	5,35(2,07)	2,87(2,16)	6,01(2,29)	3,96(2,56)
ColdSoup	veg_0455	6,03(1,90)	3,43(2,56)	6,03(1,74)	4,85(3,00)
TomatoSalad	veg_0725	5,78(2,16)	3,29(2,54)	6,14(1,81)	4,03(2,71)
GrilledVegetables	vegofood	5,77(2,08)	3,29(2,60)	6,03(1,92)	4,29(2,90)

Female Participants

Description	Pic Code	Valence Mean (SD)	Arousal Mean (SD)	Dominance Mean (SD)	Craving Mean (SD)	Description	Pic Code	Valence Mean (SD)	Arousal Mean (SD)	Dominance Mean (SD)	Craving Mean (SD)
ChipsCheese	fat_0012	6,20(2,25)	3,24(2,45)	6,27(2,13)	4,46(3,06)	Pizza	fat_6053	6,17(2,13)	3,74(2,85)	5,74(1,99)	4,54(3,08)
ChipsEggs	fat_0018	6,99(2,34)	3,59(2,75)	5,51(2,16)	5,35(3,04)	Pizza	fat_6054	7,06(1,97)	3,88(2,61)	6,32(1,60)	5,20(2,88)
ChipsEggs	fat_0022	6,71(1,74)	4,12(2,51)	5,83(1,93)	5,50(2,74)	Dumplings	fat_6439	6,69(2,35)	4,01(2,91)	6,24(1,88)	5,35(3,07)
MeatDish	fat_0029	6,77(1,84)	4,15(2,62)	5,69(1,97)	5,82(2,86)	Croquettes	fatfood3	7,28(2,00)	4,29(2,89)	6,29(1,91)	6,03(2,87)
Ham	fat_0036	7,17(2,10)	3,59(2,54)	5,70(2,24)	5,65(2,99)	FruitSkewers	fru_0015	7,33(1,78)	3,87(2,99)	6,36(1,94)	5,55(2,90)
ChipsCheese	fat_0037	7,30(1,99)	4,06(2,69)	6,26(2,11)	6,19(2,72)	FruitSalad	fru_0024	7,18(1,87)	3,86(2,68)	5,75(1,93)	5,58(2,72)
Tortilla	fat_0038	6,86(1,77)	3,74(2,57)	6,28(2,18)	5,57(2,72)	FruitSlicesCut	fru_0083	7,20(1,61)	3,58(2,59)	6,22(2,01)	5,39(2,70)
Dumplings	fat_0042	5,63(2,02)	3,42(2,65)	5,33(2,12)	3,89(2,77)	FruitSlicesCut	fru_0103	7,64(1,51)	4,34(2,63)	6,31(2,29)	5,90(2,62)
MeatDish	fat_0055	6,62(2,26)	3,59(2,61)	5,82(2,27)	5,20(3,25)	Strawberry	fru_0144	7,70(1,50)	3,86(2,93)	6,36(1,89)	5,68(2,93)
MeatDish	fat_0075	7,22(1,84)	4,10(2,71)	6,24(2,01)	6,01(2,61)	FruitSalad	fru_0190	6,87(1,86)	3,16(2,34)	5,75(1,89)	5,16(2,87)
Croquettes	fat_0083	7,21(1,85)	3,93(2,76)	6,11(2,22)	5,70(3,14)	ExtendedFruit	fru_0289	7,12(1,68)	4,07(3,11)	6,41(1,99)	5,62(2,90)
MeatDish	fat_0107	6,93(2,04)	4,26(2,77)	6,41(2,02)	5,89(2,86)	Strawberry	fru_0337	7,49(1,50)	4,37(2,70)	6,34(1,93)	5,54(2,65)
Ham	fat_0118	6,92(2,18)	4,13(2,85)	6,17(2,46)	6,05(2,96)	FruitSkewers	fru_0384	6,73(2,04)	2,97(2,25)	5,70(2,23)	4,90(2,99)
Ham	fat_0156	7,15(1,75)	4,03(2,84)	6,13(1,98)	5,88(2,72)	CutPineapple	fru_0492	7,06(1,76)	3,48(2,47)	5,87(1,70)	5,09(2,92)
Ham	fat_0242	7,06(2,18)	4,44(2,95)	6,63(1,87)	5,76(2,89)	CutPineapple	fru_0495	6,84(2,02)	3,49(2,77)	6,43(1,94)	4,84(2,94)
Dumplings	fat_0611	6,01(1,98)	2,79(2,11)	5,69(1,98)	3,86(2,79)	FruitSkewers	fru_0511	7,41(1,62)	4,04(2,75)	6,29(1,99)	5,72(2,78)
Pizza	fat_0655	7,20(2,36)	4,00(2,96)	6,13(2,38)	5,81(3,12)	FruitSlicesCut	fru_0553	6,37(2,17)	3,30(2,49)	5,87(2,02)	4,51(3,01)
Dumplings	fat_0721	5,47(2,11)	3,20(2,43)	5,63(2,45)	3,69(2,83)	FruitSkewers	fru_0593	6,68(2,14)	3,24(2,59)	6,01(2,33)	4,91(2,88)
Tortilla	fat_5515	7,18(1,50)	4,19(2,54)	6,37(1,67)	5,70(2,51)	ExtendedFruit	fru_0613	6,89(1,79)	3,89(2,64)	6,09(1,89)	5,11(2,88)
Pizza	fat_5557	7,52(1,87)	4,52(2,85)	6,65(2,18)	6,27(2,90)	FruitSalad	fru_0670	7,65(1,47)	3,87(2,83)	6,57(1,95)	5,71(2,53)

Female Participants

Description	Pic Code	Valence Mean (SD)	Arousal Mean (SD)	Dominance Mean (SD)	Craving Mean (SD)	Description	Pic Code	Valence Mean (SD)	Arousal Mean (SD)	Dominance Mean (SD)	Craving Mean (SD)
FruitSalad	fru_0683	7,12(1,90)	3,99(2,67)	6,25(2,03)	5,72(2,71)	IceCream	sug_0135	7,71(1,59)	4,40(2,88)	6,56(1,96)	6,03(2,77)
ExtendedFruit	fru_1902	6,80(2,22)	3,69(2,47)	5,95(2,37)	4,87(2,86)	Crepes	sug_0141	7,90(1,36)	4,62(2,86)	6,64(2,06)	6,52(2,58)
CutPineapple	fru_5515	7,12(1,64)	3,77(2,61)	6,46(2,13)	5,35(2,66)	Pastries	sug_0147	6,84(2,00)	3,91(2,67)	6,31(1,88)	5,18(2,72)
FruitSlicesCut	fru_5595	6,56(2,15)	3,57(2,73)	6,17(2,20)	5,18(2,91)	Donuts	sug_0150	7,40(1,82)	4,00(2,70)	6,38(2,06)	6,15(2,78)
CutPineapple	fru_5772	6,35(2,14)	2,86(2,41)	5,66(2,10)	3,97(2,88)	Pastries	sug_0151	6,90(2,02)	3,64(2,64)	5,99(2,08)	4,91(3,09)
Strawberry	fru_5782	7,17(2,04)	4,03(2,81)	6,29(2,25)	5,12(3,00)	Donuts	sug_0152	7,88(1,40)	4,91(3,00)	6,86(1,68)	6,35(2,77)
Strawberry	fru_5795	7,27(1,93)	3,49(2,67)	6,19(2,01)	5,25(3,01)	Donuts	sug_0157	7,74(1,51)	4,74(3,01)	6,58(1,98)	6,55(2,46)
ExtendedFruit	fru_5833	7,31(1,89)	3,51(2,59)	6,17(2,20)	5,06(2,97)	Pastries	sug_0166	6,81(1,96)	3,80(2,84)	6,17(2,10)	5,33(3,01)
Crepes	sug_0013	7,86(1,61)	5,08(2,77)	6,34(2,15)	6,64(2,50)	Pastries	sug_152.	7,09(1,70)	3,77(2,60)	6,17(1,97)	4,80(2,84)
Waffles	sug_0014	7,43(1,89)	4,52(2,78)	6,40(2,19)	6,03(3,01)	Crepes	sug_4009	7,27(1,78)	4,30(3,00)	6,51(2,06)	6,00(3,02)
Waffles	sug_0018	7,79(1,48)	5,00(2,99)	6,47(2,34)	6,63(2,64)	Crepes	sug_4011	7,08(2,29)	4,00(2,81)	5,92(2,31)	6,00(3,04)
Donuts	sug_0043	7,31(2,25)	3,80(2,87)	5,85(2,37)	6,10(2,88)	Waffles	sug_4421	8,25(1,34)	5,16(2,95)	6,79(2,03)	7,22(2,39)
Waffles	sug_0072	7,58(2,40)	4,32(3,01)	6,31(2,16)	6,51(2,91)	ColdSoup	veg_0002	5,83(2,28)	3,00(2,47)	6,24(2,21)	3,89(3,00)
Candies	sug_0083	7,93(1,95)	5,03(3,10)	6,72(2,15)	6,54(2,92)	VegetableSkewer	veg_0005	5,13(1,90)	2,41(1,74)	5,29(2,04)	2,93(2,49)
Candies	sug_0096	7,81(1,54)	4,64(2,74)	6,34(2,12)	5,88(2,87)	TomatoSalad	veg_0011	5,73(2,18)	2,70(2,24)	5,25(2,02)	3,70(2,78)
Candies	sug_0099	7,65(1,71)	4,37(2,84)	6,21(2,18)	5,81(2,83)	AvocadoSalad	veg_0012	5,68(1,76)	2,66(1,99)	5,30(1,98)	3,42(2,65)
Candies	sug_0101	7,62(2,17)	4,11(2,92)	6,20(2,46)	5,90(2,91)	ColdSoup	veg_0048	5,35(1,99)	2,76(2,30)	5,20(2,35)	3,61(2,90)
IceCream	sug_0112	7,24(1,93)	3,79(2,88)	6,03(2,25)	5,46(2,92)	AvocadoSalad	veg_0070	5,88(2,04)	2,71(2,30)	5,90(1,94)	3,39(2,85)
IceCream	sug_0113	7,69(1,44)	4,30(2,90)	6,34(1,93)	6,12(2,72)	GrilledVegetables	veg_0079	5,48(2,01)	2,97(2,46)	5,25(2,03)	3,50(2,87)
IceCream	sug_0116	6,10(1,86)	3,25(2,68)	6,04(2,09)	3,89(2,80)	VegetableSkewer	veg_0085	5,91(1,85)	2,75(2,20)	5,90(1,95)	3,22(2,62)

Female Participants

Description	Pic Code	Valence Mean (SD)	Arousal Mean (SD)	Dominance Mean (SD)	Craving Mean (SD)
VegetableSkewer	veg_0092	5,12(1,84)	2,54(2,29)	5,27(2,12)	2,85(2,46)
TomatoSalad	veg_0109	6,20(1,93)	3,13(2,37)	6,20(2,34)	4,44(3,03)
ColdSoup	veg_0113	5,51(1,91)	2,36(1,85)	5,46(1,84)	3,64(2,68)
TomatoSalad	veg_0114	6,35(2,12)	3,01(2,54)	5,91(1,76)	3,87(2,84)
VegetableSkewer	veg_0118	5,11(2,31)	2,66(2,14)	5,59(2,30)	3,42(2,66)
MixedSalad	veg_0125	6,12(2,06)	3,29(2,65)	6,19(2,31)	4,15(3,09)
AvocadoSalad	veg_0133	5,51(1,98)	2,49(2,24)	5,46(1,95)	3,08(2,59)
MixedSalad	veg_0135	6,07(1,97)	2,57(2,25)	6,21(1,87)	3,63(2,70)
AvocadoSalad	veg_0148	5,37(1,87)	2,65(2,06)	5,77(2,35)	3,51(2,71)
MixedSalad	veg_0152	5,67(1,92)	2,95(2,21)	5,36(2,27)	3,59(2,72)
GrilledVegetables	veg_0186	5,24(2,17)	2,69(2,15)	5,49(2,12)	3,41(2,71)
GrilledVegetables	veg_0198	5,60(2,01)	3,23(2,22)	5,61(2,13)	4,31(2,76)
MixedSalad	veg_0281	5,82(1,92)	2,94(2,11)	5,81(2,09)	3,59(2,67)
ColdSoup	veg_0455	5,97(2,22)	2,88(2,33)	5,85(2,07)	3,87(3,01)
TomatoSalad	veg_0725	5,61(2,01)	2,96(2,32)	5,34(2,14)	3,79(2,73)
GrilledVegetables	vegofood	5,77(2,06)	2,74(2,40)	5,96(1,99)	3,33(2,88)