



E3S TASTE SENSITIVITY WORKING GROUP MEETING

Online meeting, September 23rd, 2020
WG Coordinators: Caterina Dinnella & Sara Spinelli
University of Florence

AGENDA

I. Updates from the WG

1. **Launch of a survey** on the use and application of methods to assess PROP
Status, tactile acuity, fungiform papillae number, basic tastes and somatosensory responsiveness, psychological traits;
2. **Set up of sub-working groups** with different aims. Some proposals are:
 - ✓ Collaborative studies between members: **validation of remote testing procedures** to collect taste sensitivity responses (e.g. PROP)
 - ✓ Collaborative studies between members: **data sharing and analyses of extant data sets** with the aim of comparing different methodologies to measure taste responsiveness (e.g. PROP, papillae, tastes)
 - ✓ Comparison of methods to measure ORAL TACTILE responsiveness and **definition of guidelines** (e.g. TACTILE acuity)
 - ✓ **Translation in different European languages of psychological trait questionnaires** to create a collection with open access for E3S members
3. **Pleasure sensitivity** (hedonia) measurement (Barbara Vad Andersen, Aarhus University)
4. Discussion & Proposals

I - UPDATES FROM THE WG

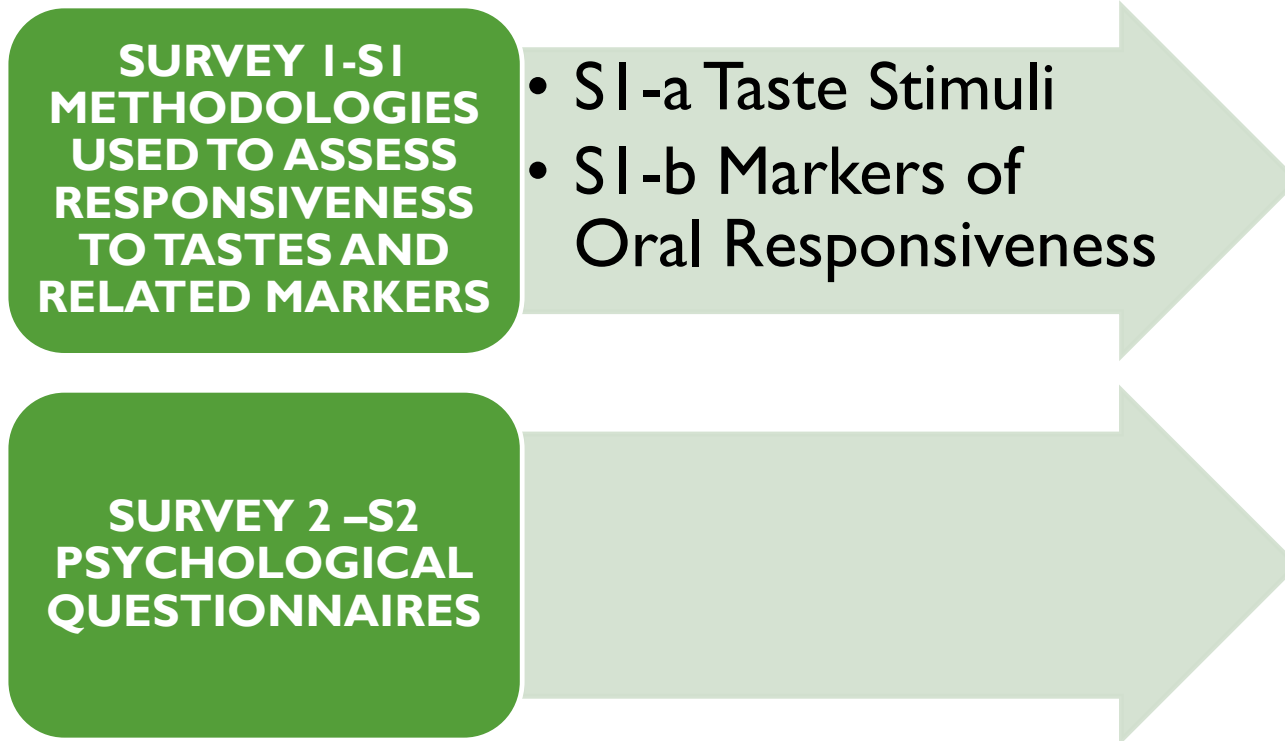
- ✓ Today (55 registrations from Denmark; Ireland, Italy, Norway, Spain, Switzerland, UK)
- ✓ E3S Taste Sensitivity WG Workshop: Beyond Italian Taste: suspended due to Covid
- ✓ E3S Taste Sensitivity Online Seminar (67 attendees)
- ✓ COST Action



2 - LAUNCH OF A SURVEY

Launch of a survey on the use and application of methods to assess PROP Status, tactile acuity, fungiform papillae number, basic tastes, psychological traits;

Objective: **to get a picture of the diversity in methods at a European level**



SURVEY I-SI - METHODOLOGIES USED TO ASSESS RESPONSIVENESS TO TASTES AND RELATED MARKERS

SI-A TASTE STIMULI

Information on:

- ✓ Stimuli characteristics (e.g. tastant and concentration; solutions or soaked disks; disk size and thickness)
- ✓ Procedure (e.g. whole mouth; regional stimulation: tongue region, device; scaling method; assessor instruction and training)
- ✓

Available Data Sets

- ✓ Stimuli
- ✓ N respondents
- ✓ Sample composition (age and gender)

SI-B MARKERS OF ORAL RESPONSIVENESS

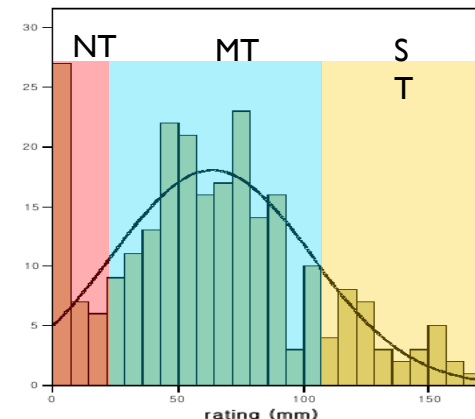
SI-bI PROP Status

Information on:

- ✓ Stimulus characteristics (e.g. solution concentration; solutions or soaked disks; disk size and thickness)
- ✓ Procedure (e.g. whole mouth; regional stimulation: tongue region, device...; scaling method; assessor instruction and training)
- ✓ Criteria for subject classification (arbitrary cut-offs; limits of percentile distributions,...)

Available Data Sets

- ✓ Stimulus
- ✓ N respondents
- ✓ Sample composition (age and gender)



SI-B MARKERS OF ORAL RESPONSIVENESS

SI-b2 Fungiform Papillae Density

Information on:

- ✓ Methodology (manual or automated)
- ✓ Procedure (e.g. tongue coloring; operator training; region and size of the tongue area; software for automated count....)

Available Data Sets

- ✓ Methodology (manual or automated)
- ✓ Tongue picture availability
- ✓ N respondents
- ✓ Sample composition (age and gender)



SI-B MARKERS OF ORAL RESPONSIVENESS

SI-b3 Tactile Acuity

Information on:

- ✓ Device (e.g. Von Frey filaments; grids; shapes/letters....)
- ✓ Response (e.g. DT, RT, RI...)
- ✓ Procedure (staircase 3up/1down, 3-AFC,)

Available Data Sets

- ✓ Device
- ✓ Response
- ✓ N respondents
- ✓ Sample composition (age and gender)



SURVEY 2 – S2 PSYCHOLOGICAL QUESTIONNAIRES

Food neophobia scale; Sensitivity to punishment and reward; sensitivity to disgust; alexithymia; sensation seeking ...others?

✓ TRANSLATION

- ✓ Validated translation already available in language
- ✓ Interest in having available the validated translation in language

✓ RELIABILITY

✓ INTERNAL CONSISTENCY

- ✓ Cronbach- α available
- ✓ Sample size and respondent characteristics (age and gender)

✓ TEST-RETEST already available?

- ✓ Sample size and respondent characteristics (age and gender)

Available Data Sets

- ✓ N respondents
- ✓ Sample composition (age and gender)



WORKING PLAN & TENTATIVE TIMING

Survey development

- End November 2020

Revision by external reviewers

- 20 December 2020

Implementation on online platform

- Mid January 2021

Survey pre-test (2 units x survey)

- End of January 2021

Survey Launch

- Early February 2021

Presentation of the results: May 2021
during the E3S GA & Symposium (Helsinki, Finland)

FUTURE ACTIVITIES 2021

Activities from SI-a **TASTE STIMULI**

Group working on taste – data sharing and analysis

→ methodology comparison and guidelines

Activities from SI-b **ORAL RESPONSIVENESS**

Group working on PROP remote testing – new data collection

→ PROP remote testing validation

Group working on FPD – data sharing and analysis including counting on available pictures

→ methodology comparison and guidelines

Group working on tactile acuity – data sharing and analysis

→ methodology comparison and guidelines

Activities from S2 **PSYCHOLOGICAL TRAITS**

Group working on translation

→ translation (back translation) of Qs in English, French, German, Spanish, Italian, and other languages of interest

Group working on reliability

→ data analysis to check reliability (eventual data collection for test-retest) and correspondence across languages

→ Set up of a platform on E3S website with questionnaires available for E3S members

DISCUSSION & PROPOSALS



Call to contribution: revisions and integrations

S1 Taste

- Name
- Name
- Name
- Name

S2 Oral markers

- Name
- Name
- Name
- Name

S3 Ph. Questionnaires

- Name
- Name
- Name
- Name

DISCUSSION & PROPOSALS

- ✓ How to join the WG and express your willing to collaborate:
please fill in this form

<https://forms.gle/VNJmjavNY3zc963t5>

- ✓ New WG name:
 - ✓ Oral responsiveness?
 - ✓ Individual differences?