



MONDAY 15

15:00	Registration	
16:15 – 16:30	Welcome Remarks	
16.30 – 17:30	Plenary talk <u>Diego Cabrera</u> Mixologist. Guru Lab, Madrid, Spain	<i>ROOM: MITXELENA AUDITORIUM</i>
17:30 – 18:00	Coffee Break	
18:00 – 19:30	Parallel sessions	
18:00-19:30	SESSION 1- 150 YEARS OF GLOMERULI Symposium Organizer Peter Mombaerts 150 years of glomeruli Chair/s: <i>Peter Mombaerts</i> Similar and yet different: the glomerulus in amphibians Chair/s: <i>Ivan Manzani</i> Convergence and divergence: the glomerulus as a physiological unit Chair/s: <i>Izumi Fukunaga</i>	<i>ROOM: MITXELENA AUDITORIUM</i>
18:00-19:30	SESSION 2- BITTER TASTE ENIGMA – RECEPTORS, CIRCUITS, AND PERCEPTION Symposium Organizer Anan Moran Molecular and functional evolution at the origin of vertebrate bitter taste Chair/s: <i>Sigrun I Korsching</i> The interaction of agonists, antagonists and mixtures with the human TAS2R repertoire Chair/s: <i>Maik Behrens</i> Neural and behavioral responses to bitterants: disentangling perception and coding in the tastesystem Chair/s: <i>Anan Moran</i>	<i>ROOM: BAROJA</i>
19:30 – 21:00	Welcome Cocktail	<i>BIZKAIA ARETOA HALL</i>

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- 09:00 – 10:00 **Plenary talk: NEUROGENESIS FOR ADULT OLFACTORY CIRCUITS** *ROOM: MITXELENA AUDITORIUM*
Isabel Fariñas
 CIBERNED & Instituto de Biotecnología y Biomedicina, Universidad de Valencia
- 10:00 – 10:45 **SELECTED SHORT TALKS - SESSION 1**
- Channel synapse mediates neurotransmission of airway protective chemoreflexes**
Chair/s: Akiyuki Taruno
- Taste regulation of immunity**
Chair/s: Pierre-Yves Musso
- Role of the lingual GLP-1 system in sweet taste detection**
Chair/s: Chometton Sandrine
- Biomolecular and biophysical AFM probing reveals distinct binding of bitter peptide VAPFPEVF to TAS2R16 without inducing an intracellular calcium response**
Chair/s: Phil Richter
- 10:45 – 11:15 Coffee Break
- 11:15 – 13:15 **Parallel sessions**
- 11:15-13:15 **SESSION 3 - CELL DIVERSITY AND PLASTICITY IN THE MOUSE OLFACTORY SYSTEM** *ROOM: BAROJA*
- Symposium Organizer
Moritz Nessler
- Novel cell types mediating pheromone information processing in the mouse accessory olfactory bulb.**
Chair/s: Andres Hernandez-Clavijo
- A low-dimensional glomerular code for olfactory perception- SELECTED SHORT TALKS**
Chair/s: Walter Bast
- From detonation to dendritic spikes: how olfactory bulb interneurons coordinate flexible ensembles of mitral/tufted cells**
Chair/s: Shawn Burton
- Synaptic inhibition in the mouse olfactory bulb refines multimodal perception of mechanical and chemical stimuli- SELECTED SHORT TALKS**
Chair/s: Susobhan Das
- The role of trigeminal activation in olfactory signal processing**
Chair/s: Federica genovese
- Neural dynamics underlying odor perceptual learning in olfactory bulb and piriform cortex**
Chair/s: Kevin Bolding



11:15-12:15 **SESSION 4 - MARS SYMPOSIUM-ADVANCES IN UNDERSTANDING THE PERCEPTION OF KOKUMI SUBSTANCES**

ROOM: MITXELENA AUDITORIUM

Symposium Organizer
Scott McGrane

Advances in understanding the perception of kokumi substances
Chair/s: Scott McGrane

Kokumi substances as taste modifiers: Sensory properties and Molecular mechanisms
Chair/s: Seiji Kitajima Kitajima

Involvement of multiple taste receptors in the actions of Kokumi taste stimuli
Chair/s: Rhyu Mee-Ra Rhyu

In silico framework for investigating the mechanics of kokumi taste: unveiling the chemistry to discover new kokumi compounds
Chair/s: Florinda Perugino

Exploring the mechanisms and role of kokumi taste for the domestic cat (*Felis catus*).
Chair/s: Anni Laffitte Laffitte

12:15-13:15 **SESSION 4- BIOLOGICALLY INSPIRED AND BIO-BASED SENSORS IN OLFACTION AND TASTE**

ROOM: MITXELENA AUDITORIUM

Symposium Organizer
Topin Jérémie

Discriminating Ligands via the Capacitive Response of hOR1A1
Chair/s: Anna Lagunas

Olfactory receptors for charge-sensitive sensors
Chair/s: Moreau Christophe

From molecular binding to conformational change, an extensive study on Olfactory Binding Protein (OBPs)
Chair/s: Maxence Lalis

Bioinspired electronic nose for artificial olfaction development
Chair/s: HOU Yanxia

13.15 – 14:30 Lunch

14:30 – 16:30 **Parallel sessions**

14.30-15:30 **SESSION 5 - HUMAN OLFACTORY-DERIVED IN VITRO MODELS FOR TRANSLATIONAL RESEARCH**

ROOM: MITXELENA AUDITORIUM

Symposium Organizer
Maria Figueres-Oñate

Translational potential of olfactory-derived models and their applications across various biomedical fields.
Chair/s: Maria figueres-oñate

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Impact of air pollution exposure in olfactory mucosal cells in Alzheimer's disease

Chair/s: Katja kanninen

Patient-Derived Olfactory Tumor Models: Insights into Disease Mechanisms and Therapeutic Approaches

Chair/s: Bradley Goldstein

Isolation and Differentiation of Neurons and Glial Cells from Olfactory Epithelium in Living Subjects: Advancing Neuropsychiatric and Neurodegenerative Disease Research

Chair/s: : Lleyre urigüen echeverria

15.30-16:30 **SESSION 5 - OPEN-ACCESS TOOLS AND INNOVATION FOR OLFACTORY EXPERIMENTATION**

ROOM: MITXELENA AUDITORIUM

Symposium Organizer

Guillaume Chloé

Kevin Bolding

Olfactometry, not rocket science: simple, inexpensive designs for flexible, high-fidelity odor delivery supporting neuroscientific and perceptual studies.

Chair/s: Matt Wachowiak wachowiak

Visualizing and sonifying neurodata (ViSoND): closing the loop between observation and computation

Chair/s: Matt Smear

Reinforcement Learning and Fluid Dynamics Approaches to Olfactory Navigation and Swarming of Copepods in Turbulence

Chair/s: Martin James

Accessible and automated behavioural testing in freely moving mice: open-source tools for multisensory conditioning and odour-driven behaviour.

Chair/s: Guillaume Chloé

14.30-15:30 **SESSION 6 - SCENT AND SEXUALITY: EXPLORING THE INTERSECTION OF SMELL, RELATIONSHIPS, AND HEALTH**

ROOM: BAROJA

Symposium Organizers

Marlise Hofer

Jessica Gaby

The impact of COVID-19 related smell dysfunction on sexual and mental wellbeing: data from a longitudinal sample.

Chair/s: Marlise Hofer

There's Chemistry Between Us: Romantic Partner's Smell and Relationship Quality

Chair/s: Egenaz Kiraz

A survey-based look at the effects of hormone therapy on body odor production and perception

Chair/s: Jessica Gaby

SESSION 6 - SELECTED SHORT TALKS

Smelling the romantic partner's body odor increases psychological and autonomic but not cortisol stress responses

Chair/s: Franny Spengler

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15:30-16:30 **SESSION 6 - THE MEXICAN NETWORK OF OLFACTION: A COLLABORATIVE HUB FOR CUTTING-EDGE RESEARCH AND INNOVATION IN OLFACTORY SCIENCES** *ROOM: BAROJA*

Symposium Organizer
Rebeca Corona

Presentation of the mexican network of olfaction
Chair/s: Rebeca Corona

Experimental development of olfactory system in mexico
Chair/s: Verónica Viñuela Berni

Olfactory System: The Remarkable Contributions of a Mexican Neuroanatomist
Chair/s: Teresa Morales Guzmán

Diseases that affect olfaction, studies in Mexico
Chair/s: Benito Ordaz Sánchez

16:30 – 18:00 **Poster SESSION 1 and Coffee Break** *ROOM: CHILLIDA*

18:00 – 19:00 **Plenary talk: SENSING WITH PHEROMONES IN FREELY MOVING MICE** *ROOM: MITXELENA AUDITORIUM*
Lisa Stowers Anderson
The Scripps Research Institute, La Jolla, USA

19:30 Social Activities

BOAT ROUTE *Detail information available soon*

TXAKOLI WINE TASTING— *Designation of Origin Basque Country Free activity* *ROOM: LABOA*

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WEDNESDAY 17

09:00 – 10:00 **Plenary talk: BRAIN MYELIN AS AN ENERGY SOURCE IN HEALTH AND DISEAS** *ROOM: MITXELENA AUDITORIUM*
Carlos José Matute Almu
CIBERNED, Biobizkaia y Universidad del País Vasco (UPV/EHU)

10:00 – 10:45 **SELECTED SHORT TALKS- SESSION 2**

Predicting appetitive response to food odours from expected gustatory properties and taste-liker status

Chair/s: Putu Agus Khorisanton

Glp-1 receptor agonists significantly impair taste function

Chair/s: Richard Doty

Chemosensory inputs to the drosophila navigation center maps odor to action

Chair/s: Kavin Nunez

Tuft (Taste) Cell-Like Subtypes in Human Biliary Inflammation: Chemosensory Epithelial Diversity Revealed by Single-Cell Profiling

Chair/s: Dr. Keshavarz Maryam

10:45 – 11:15 Coffee Break

11:15 – 13:15 **Parallel sessions**

SESSION 7- CHEMOSENSORY LOSS IN LONG COVID

ROOM:MITXELENA AUDITORIUM

Symposium Organizer

Thomas Hummel

Finger Thomas

Long-term effects of COVID-19 on taste function: psychophysics, histology and molecular markers

Chair/s: Finger Thomas

Psychophysical assessment of gustatory dysfunction in COVID-19

Chair/s: Constantin Hintschich

Protocol for endoscopic sampling and histomolecular analysis of human olfactory cleft mucosa in an outpatient setting

Chair/s: Van Gerven Laura

Parosmia following COVID-19: clinical aspects, pathophysiology, therapeutic perspectives

Chair/s: Susanne Weise

SESSION 7 - SELECTED SHORT TALKS

Olfactory substitution by the trigeminal system in humans: a promising therapeutic approach

Chair/s: Thomas Hummel

Grey matter alterations in persistent COVID-19-related quantitative and qualitative olfactory dysfunction

Chair/s: Birgit van Dijk

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11:15-12:15 **SESSION 8- CHRONIC RHINOSINUSITIS AND OLFACTORY DYSFUNCTION**

ROOM: BAROJA

Symposium Organizer

Steven Munger

Introduction-Chronic rhinosinusitis and olfactory dysfunction

Chair/s: Steven Munger

What nasal mucus can teach us about CRS-related olfactory loss

Chair/s: Jennifer Mulligan

Restoring Smell in Chronic Rhinosinusitis with Nasal Polyps: Mechanistic Insights from Biologic Therapy and Real-World Outcomes

Chair/s: Jose Mattos

The MACRO Trial: Assessing the effectiveness of medical and surgical treatments for the treatment of chronic rhinosinusitis

Chair/s: Carl Philpott

12:15-13:15 **SESSION 8- HEALTHY SMELLING: HOW SMELLING WELL IMPACTS OUR WELL-BEING**

ROOM: BAROJA

Symposium Organizer

Dr. Mehmet Mahmut

Cognitive and emotional well-being in people with an olfactory dysfunction

Chair/s: Michal Pieniak

Olfaction, nature contact, and human well-being

Chair/s: Gregory Bratman

How smelling good helps build healthy social and romantic relationships

Chair/s: Dr Mehmet Mahmut

Smell and Emotion – Myths, Mechanisms, and Clinical Implications

Chair/s: Ilona Croy

Healthy Smelling: Concluding Remarks

Chair/s: Anna Oleszkiewicz

11:15-13:15 **SESSION 9 - VOMERONASAL ORGAN: DEVELOPMENT, FUNCTION, AND FUTURE PERSPECTIVES**

ROOM: ARRIAGA

Symposium Organizer

Jean-François Cloutier

Paolo E. Forni

One System, Many Strategies: Morphological and Functional Diversity of the Mammalian VNS

Chair/s: Pablo Sanchez Quinteiro

The molecular diversity of the endoplasmic reticulum in vomeronasal sensory neurons is essential for maintaining their homeostasis and identity

Chair/s: Paolo E. Forni

Glomerular map formation in the control of social behaviours

Chair/s: Jean-François Cloutier

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WEDNESDAY 17

How conspecific chemical communication controls complex behaviors

Chair/s: Marc Spehr

SESSION 9 - SELECTED SHORT TALKS

The main and accessory olfactory pathways converge in distinct amygdaloid nuclei

Chair/s: Moritz Nessler M

13.15 – 14:30 Lunch

14:30 – 16:30 Parallel sessions

14.30-16:30 **SESSION 10- NEUROMODULATION AND PLASTICITY IN OLFACTORY CIRCUITS ACROSS SPECIES**

ROOM: BAROJA

Symposium Organizer

Elisa Galliano

Neuromodulators drive sex-specific behavioral plasticity in *C. elegans*

Chair/s: Sonu Peedikayil Kurien

Synaptic depression outperforms potentiation in learned stimulus discrimination under relative integration of opposing outputs

Chair/s: Andrew Lin

Neural bases of childhood olfactory memory in mice

Chair/s: Dejou Jules Dejou

Olfactory dopaminergic cells: key players in sexual odor perception

Chair/s: Serena Bovetti

SESSION 10 - SELECTED SHORT TALKS

Glial modulation of peripheral olfactory responses via *Eaat2* in *Drosophila*

Chair/s: Alejandro Muñoz-Jimenez

Brain-Wide Coding of Stimulus Valence and Behavior in the Larval Zebrafish Chemosensory System

Chair/s: Thomas Frank

14.30-16:30 **SESSION 11- ODORS AND THE BRAIN: A JOURNEY WITH THE SPANISH OLFACTORY NETWORK**

ROOM: MITXELENA AUDITORIUM

Symposium Organizer

Raúl Fernández Arias

Angel Gonzalez Wong

Computational Studies of the Molecular Determinants of Human Olfaction: From Odorant Chemistry to Receptor Variation

Chair/s: Angel Gonzalez Wong

The Vomeronasal Organ as a Natural Chromatographic Column: Differential Processing of Chemical Signals in Ungulates

Chair/s: Irene Ortiz Leal

Neural mechanisms for state-dependent female socio-sexual behavior

Chair/s: Nicolas Gutierrez Castellanos

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Uncovering the synaptic involvement of NG2-glia in the olfactory connectome

Chair/s: Raúl Fernández Arias

SESSION 11 - SELECTED SHORT TALKS

Signature-based therapeutic repurposing of HDAC1 and PARP-1 inhibitors in Parkinson's disease

Chair/s: Paz Cartas Cejudo

Cystic fibrosis alters the structure of the olfactory epithelium and the expression of olfactory receptors affecting odor perception

Chair/s: Ignacio Caballero Caballero

14.30-16:30

SESSION 12 - AI IN OLFACTORY SCIENCE - BRIDGING CHEMISTRY, BIOLOGY, SEMANTICS, AND SENSOR TECHNOLOGY

ROOM:ARRIAGA

Symposium Organizer

Antonella Di Pizio

AI and the structural landscape of odorant receptors

Chair/s: Antonella Di Pizio

Code2smell: a bio-inspired model of combinatorial code for predicting olfactory perception

Chair/s: Topin Jérémie

Evaluating language models potential for capturing odor-perceptual and odor-semantic information

Chair/s: Thomas Hörberg Hörberg

Machine Learning for Molecular Sensing

Chair/s: Gianaurelio Cuniberti

SESSION 12 - SELECTED SHORT TALKS

Through the Fermi hole of fragrance: machine learning the quantum signatures of smell

Chair/s: Pinaki Saha

Watching degree of deterioration of dry aged meat, by an electronic nose equipped with artificial intelligence.

Chair/s: Jose Iñaki Alava Marquinez

Towards a Linear Framework for Predicting Olfactory Mixture Perception

Chair/s: Robert Pellegrino

16:30 – 18:00

Poster SESSION 2 and Coffee Break

ROOM: CHILLIDA

18.00 – 19:30

Plenary talk: LOCUST OLFACTORY NEUROECOLOGY

ROOM:MITXELENA AUDITORIUM

Bill Hansson

Director Max Planck Institute for Chemical Ecology. Department of Evolutionary Neuroethology. Germany

21:00

Gala Dinner- Hotel Carlton

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09:00 – 10:00 **Plenary talk: INVISIBLE HERITAGE: SMELLS AS CULTURAL RECORDS** *ROOM: MITXELENA AUDITORIUM*
Cecilia Bembibre
 Deputy director MSc Sustainable Heritage University College London, London, United Kingdom

10:00– 10:30 Coffee Break

10:30 – 12:30 **Parallel sessions**

10:30-12:30 **SESSION 13- STRUCTURAL ADVANCES IN CHEMOSENSORY RECEPTORS** *ROOM:MITXELENA AUDITORIUM*

Symposium Organizer
Masha Niv Niv

Bitter Taste Receptors: What Have We Learned by Combining Structural Biology and AI
Chair/s: Masha Niv Niv

Activation and structural features of the related metabotropic glutamate (mGlu) and umami/sweet taste receptors
Chair/s: Laurent Prézeau

Molecular simulations assess the structure-based design of GPCR chemical modulators - methods and success stories
Chair/s: Hugo Gutiérrez de Terán Castañón

Structural Insights into How Mammals Discriminate Odorants
Chair/s: Hiroaki Matsunami Matsunami

SESSION 13 - SELECTED SHORT TALKS

Conformational landscape of the entire odorant receptor repertoire
Chair/s: Alessandro Nicoli

Optimizing odorant receptor stability and expresión
Chair/s: Puech Mathis

An updated phylogenetic classification of the human olfactory receptor repertoire
Chair/s: Sylvester Holt

10:30-12:30 **SESSION 14 - SCENTED EMOTIONS: THE ROLE OF EMOTIONAL HUMAN CHEMOSIGNALS IN SOCIAL AND EMOTIONAL EXCHANGE** *ROOM:BAROJA*

Symposium Organizer
Cinzia Cecchetto

Scented Emotions: The Role of Emotional Human Chemosignals in Social and Emotional Exchange
Chair/s: Cinzia Cecchetto

Neural insights into emotional body odors processing in affective disorders
Chair/s: Elisa Dal Bò

Spatio-temporal independent component analysis of sweat volatile organic compounds for the identification of potential human fear chemosignals: the POTION framework
Chair/s: Alberto Greco

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Decoding Social Interaction: The Role of Emotional Body Odours in Group Dynamics

Chair/s: Maria Eleonora Minissi

Testing Human and Artificial Chemosignals in Mindfulness-Based Interventions for Social Anxiety

Chair/s: Elisa Vigna

SESSION 14 - SELECTED SHORT TALKS

State-dependent variation of human body odors: from molecular changes to perception

Chair/s: Antonie Bierling

10:30-11:30

SESSION 15 - OLFACTORY FUNCTION IN MENTAL AND NEURODEVELOPMENTAL DISORDERS

ROOM:ARRIAGA

Symposium Organizer

Maria Geraldine Veldhuize

In Non-Clinical Depression in Undergraduates, Odor-Evoked Autobiographical Memories Are Relatively Less Vivid Than Those Evoked With Words or Photographs

Chair/s: Berçem Yar Yar

Differential effects of odors on reward-seeking behavior in individuals with anorexia nervosa

Chair/s: Androula Savva

Olfactory Function in Autism Spectrum Disorder: A Meta-Analytic Perspective with New Insights from Chemosensory Profiling and Neural Data

Chair/s: Isabelle Cullen

11:30-12:30

SESSION 15- SENSORY ALTERATIONS IN PATIENTS WITH CANCER: FROM FUNDAMENTAL INSIGHTS TO CLINICAL SOLUTIONS

ROOM:ARRIAGA

Symposium Organizer

Sanne Boesveldt

Oral somatosensory perception of cancer patients: variability and influence on eating experience

Chair/s: Anestis Dougkas

Drivers of nutritional disorders in patients with cancer

Chair/s: Meropi Kontogianni

The TASTY project: taste steering and taste and smell training in oncology patients

Chair/s: Madieke Douma

SESSION 15 - SELECTED SHORT TALKS

Clinical screening with color-associated olfactory testing: a crossmodal tool for early detection of neurodegenerative disorders

Chair/s: Sally Arnhardt

12.30

Closing Remarks

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