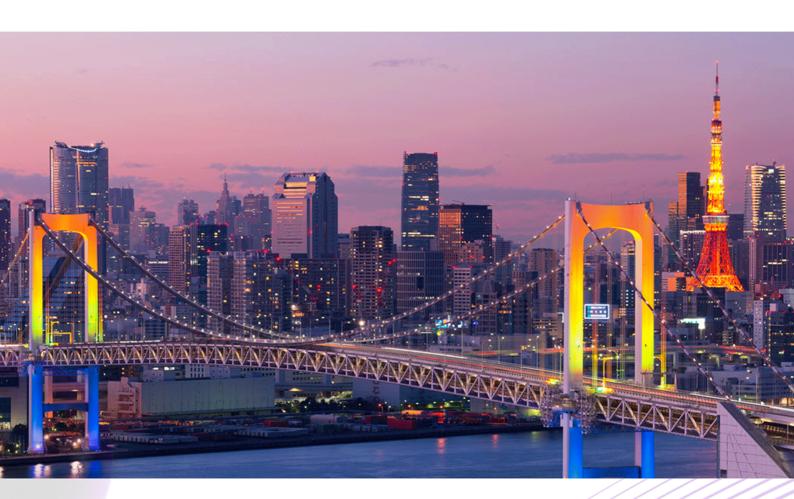
# 6th World Congress of

# DIGITAL OLFACTION SOCIETY

第6回デジタルオルファクション国際会議



# FINAL AGENDA 会議事項



December 3 - 4, 2018 - Tokyo, Japan



## **Digital Olfaction Society**

### 6th DOS Annual Meeting

December 3-4, 2018 – Tokyo, Japan

Day 1 - December 3, 2018

7h30 Welcoming of attendees8h55 Opening Ceremony

Session 1: Olfaction 2018: Recent Scientific Advances & Perspectives
The Sense of Smell in Health

Chairpersons: Marvin Edeas, Andreas Keller

9h00 Olfaction and Digital Olfaction: Now & Tomorrow
Marvin Edeas, Université Paris Descartes, INSERM 1016,
Chairman of the Digital Olfaction Society Committee

9h30 The structure of olfactory appearances Andreas Keller, Rockefeller University, USA

10h00 Smell loss: a marker of cognitive decline, dementia, and mortality *Maria Larsson*, *Stockholm University*, *Sweden* 

10h30 Coffee Break & Network Session

11h00 A non-invasive measure of olfactory bulb function in humans

Johan Lundström, Department of Clinical Neuroscience, Karolinska Institute, Sweden

11h30 Perceptual functions of the mouse olfactory bulb Lawrence Cohen, Yale University, USA

11h45 The olfactory system in genesis of Alzheimer's disease Natalia Bobkova, Russian Academy of Science, Russia

12h00 Discussions & Poster Presentations

12h30 Lunch Break & Network Session

#### Session 2: Olfaction 2018: Towards a Personalized Emotional Perspective

Chairpersons: Djamchid Assadi, Tristram Wyatt

14h00 Exploration into olfaction and experiential strategy: State of Art Djamchid Assadi, Groupe ESC Dijon-Bourgogne, France

14h30 Sexing up human pheromones: How a corporation created a "scientific" myth Tristram Wyatt, University of Oxford, United Kingdom

15h00 Enhancing user interaction with olfactory experiences Marina Carulli, Politecnico di Milano, Italy

16h00	The Language of Smell: Connecting linguistic and psychophysical properties of odors
	Jonas Olofsson, Stockholm University, Sweden 16h00

### 16h30 Personal scent for a health and productivity management Shuji Fujita, Sony corp, Japan

### 16h45 Smells of a modern world: How to identify and characterize odorants in contemporary materials Christoph Wiedmer, Fraunhofer-Institute for Process Engineering and Packaging IVV, Germany

### 17h00 Scents and memory in virtual reality Veikko Surakka, University of Tampere, Finland

### 17h15 Human response to sensory effects on 360° VR content Sang-Kyun Kim, Myongji University, Republic of Korea

17h30 Posters Presentation - Speed presentation 5 minutes - day 1

World's first olfactive fragrance to modulate skin microbiota Céline Klotz, Innovation Labo, France

Overexpression human dopamine receptor using bacterial expression system for construction dopamine detection sensor

Dahye Kim, Korea Research Institute of Bioscience and Biotechnology, Korea

#### Colorimetric sensing of volatile acids from the body Jessica Gunnoo, School of Chemical Sciences, Ireland

Towards visualising household air pollution: Chemo-responsive sensors for volatile organic compounds Emer Duffy, School of Chemical Sciences, Ireland

Microbioal VOC fingerprints: Rapid detection of antimicrobial resistance in pathogenic bacteria Allyson Dailey, George Mason University, USA

Specific intranasal and central trigeminal electrophysiological responses in Parkinson's disease Johannes Frasnelli, Université du Québec in Trois-Rivières, Canada

Essential olfactory receptors in stylet of the major disease vector, Aedes aegypti Hyung Wook Kwon, Incheon National University, Republic of Korea

18h00 Discussion & End of the first day

19h30 DOS Dinner 2018

#### The dinner will be at the Hyoki restaurant

103-0027 Tokyo, chuo-ku, nihombashi 3-13-11 Yushikyogyou kaikan 1F 〒103-0027, 東京都中央区日本橋3-13-11, 油脂工業会館1F www.hyoki.jp/shop/yaesu/

If you have not yet registered and wish to participate, you can register on the site or online.



## **Digital Olfaction Society**

### 6th DOS Annual Meeting

### Day 2 - December 4, 2018

8h25	Opening of the second day
	Session 3: Digital Olfaction: Recent Advances, Research & Development and Perspectives
	Chairpersons: Jesús Lozano Rogado, Kohji Mitsubayashi, Simon Niedenthal, Yasuyuki Yanagida
9h00	Miniaturized electronic nose systems for digital olfaction: Present and future applications  Jesús Lozano Rogado, University of Extremadura, Spain
9h25	Bio-electronic nose: A mouse nose as an ultra sensitive and versatile chemical detector Dmitry Rinberg, NYU Neuroscience Institute, USA
9h50	Sniff-cam for real-time imaging of volatile chemicals Kohji Mitsubayashi, Tokyo Medical and Dental University, Japan
10h15	OWIDGETS: A device-independent toolkit for olfactory experience design Emanuela Maggioni, University of Sussex, United Kingdom
	10h25 Coffee Break & Network Session
11h00	Digital olfaction: Imaging an odor Thierry Livache, CSO of Aryballe Technologies, France
11h25	Smell-enabled VR games for olfactory training Simon Niedenthal, Malmö University, Sweden
11h50	Exploration of biological olfactory mechanism using randomly mixed receptor signals decoded by reservoir computing  Sanato Nagata, Hitachi, Ltd., Japan
12h00	Neural network within an olfactory sensory unit for nestmate and non-nestmate discrimination of ant The Ultrastructures and Mathematical Simulation for olfactory information modification  Mamiko Ozaki, Kobe University, Japan
12h10	Challenges in the application of machine learning methods to the prediction of odor and how to address them  Sebastian Hettenkofer, Fraunhofer Institute for Integrated Circuits IIS, Germany
12h20	Odor sensing and classification by using machine learning Sigeru Omatu, Osaka Institute of Technology, Japan
12h30	Stability of the vortex ring trajectory by the shape of the APERTURE for generating scent fields Kyuma Watanabe, Meijo University, Japan
12h40	Online scent classification using measurements from an ion-mobility spectrometry-based electronic nose <i>Philipp Müller, Tampere University of Technology, Finland</i>
12650	Digital alfaction with graphone

Gregory F. Schneider, Leiden University, NL

#### 14h00 - 16h00: DOS Displaying & Demonstrations

#### General presentation of each demonstration

Before the practical demonstration, we invite each team to present orally their technology and the process of demonstration (5-10 minutes by team). During Demonstrations Session, each team will have a dedicated space to show, demonstrate, explain and discuss about his project.

Planning of the Demonstrations Technology for scent classification and production Jussi Rantala, University of Tampere, Finland

Transmitting aromas by using a miniaturized electronic-nose and an olfactory display *Jesús Lozano Rogado*, *University of Extremadura*, *Spain* 

Presentation of Sony new product "AROMASTIC" Cedric Duvert, Sony corp, Japan

Digital olfaction: Imaging an odor

Thierry Livache, CSO of Aryballe Technologies, France

16h00 Coffee Break & Network Session

16h15 Posters Presentations – Speed presentation 5 minutes – day 2

Scent transfer over a communication network Katri Salminen, University of Tempere, Finland

Online scent classification using measurements from an ion-mobility spectrometry-based electronic nose **Philipp Müller**, Tampere University of technology, Finland

FET Biosensor for detection of Toluene gas

Moonil Kim, Korea Research Institute of Bioscience and Biotechnology, Korea

Bioelectronic nose for mimicking the human sense of smell using grapheme micropattern (GM) geometries Seon Joo Park, Korea Research Institute of Bioscience and Biotechnology, Korea

Personal electronic nose for beer aroma detection Jesús Lozano Rogado, University of Extremadura, Spain

Sniff olfactometery: elemental and configural perceptions

Terry Acree, Cornell University, USA

Two approaches to bioelectronics sensor mimicking insect chemosensory system Soo Ho Lim, Incheon National University, Republic of Korea

Comparision of exhaled breath using E-nose and blood test for diabetes Joon-boo Yu, Kangwon National University, Republic of Korea

16h30 Discussion and Concluding Remarks

**Digital Olfaction Awards** 

17h00 End of the 6th DOS Annual Meeting 2018