

**SILENT SYMPHONIES:
THE WONDERS
OF ANIMAL
ULTRASOUNDS**

THE 3RD **ULTRASONIC VOCALIZATION**

26-27.10.2023 CONFERENCE


WWW.ULTRASONICVOCALIZATIONS.NET



ULTRASONIC VOCALIZATIONS NETWORK • NENCKI INSTITUTE OF EXPERIMENTAL BIOLOGY, PASTEURA STREET 3, WARSAW

SPONSORS



 Minister of Education and Science
Republic of Poland



PARTNERS



 **nencki institute**
of experimental biology

 **Doskonała
Nauka**



PROJEKT DOFINANSOWANY ZE ŚRODKÓW BUDŻETU PAŃSTWA, PRZYZNANYCH PRZEZ MINISTRA EDUKACJI I NAUKI W RAMACH PROGRAMU „DOSKONAŁA NAUKA II”



PROGRAMME OF THE 3RD ULTRASONIC VOCALIZATION CONFERENCE

THURSDAY • 26.10.

FRIDAY • 27.10

10:00

10:00-10:35 • **STEFAN BRUDZYŃSKI**
*Functions of 22 kHz ultrasonic vocalizations
in rats resulting from aversive arousal*

10:00-10:25 • **PAWEŁ BOGUSZEWSKI**
*Methods applied in acoustic signal analysis.
Which is worth using?*

11:00

10:40-11:05 • **MARKUS WÖHR**
*Improving translational research models
for human mental disorders:
Deciphering socio-affective communication
through ultrasonic vocalizations in rats*

10:30-10:55 • **JUMPEI MATSUMOTO**
*USV source identification
for investigating neurobiology
of social behavior*

12:00

11:10-11:35 • **NICOLA SIMOLA**
*Modifications in the emission of 50-kHz USVs
in rats repeatedly treated with amphetamine
and dopamine receptor antagonists:
new insights on the role of dopamine transmission
in ultrasonic calling behavior*

11:00-11:25 • **BERNHARD ENGLITZ**
*Towards a real-time
audiovisual tracking system
at millimeter precision*

11:40-12:05 • **SYLVIE GRANON**
*Social interaction and acoustic communication
male and female mice: Beyond the gender difference*

11:30-11:55 • **METRIS**
*Challenges and the way forward
in automated classification
of ultrasonic vocalizations*

12:05-12:25 • **BREAK**

11:55-12:20 • **BREAK**

13:00

12:25-12:50 • **ÖZGE SUNGUR**
*Ultrasonic Vocalizations in Mouse Models for Autism
Spectrum Disorder: A Link to Synaptic Dynamics*

12:20-12:45 • **FABRICE DE CHAUMONT**
*Quantification and synchronization
of vocalizations with live mouse tracker*

12:55-13:20 • **ANGELA CARUSO**
*Ultrasonic vocalizations as a model of social
communication in neurodevelopmental condition*

12:50-13:15 • **REYHANEH ABBASI**
*Exploring generalizability
in ultrasonic vocalization
detection and classification methods*

13:25-13:50 • **ELODIE EY**
*Context-specificities of ultrasonic vocalisation
characteristics in laboratory mice*

13:20-13:45 • **MIRON KURSA**
Machine learning on populations

14:00

13:55 – 14:20 • **AGNIESZKA POTASIEWICZ**
*Pups' ultrasound vocalizations in the neurodevelopmental
model of schizophrenia.*

13:50-14:15 • **ROBERT KUBA FILIPKOWSKI**
*Are we missing something?
Exploring aversive calls
in the 44-kHz frequency band*

14:25-14:45 • **TOMASZ GÓRKIEWICZ**
Social buffering during fear memory extinction

15:00-16:40 • **LUNCH BREAK + SCIENCE SNAPSHOTS**

14:20-15:20 • **LUNCH BREAK**

16:00

16:40-17:05 • **SHIMPEI ISHIYAMA**
*Exploring the emotional side of ticklishness:
Insights from insular neurons*

15:25-15:50 • **KEVIN COFFEY**
*Rapid appearance of negative emotion during oral
fentanyl self-administration: Insights from DeepSqueak*

17:10-17:35 • **PAUL CLARKE**
*Adult rat ultrasonic vocalizations:
useful indices of positive or negative affect?*

15:55-16:20 • **DAVID BAKER**
*Providing Better Translational Insights into Substance Use
Disorders Using Ultrasonic Vocalizations*

17:00

17:40-18:00 • **ADAM HAMED**
*Exploring Ultrasonic Vocalization's Role
in Reward-Related Memory and Goal-Directed Behavior*

16:25-16:50 • **JEFFREY BURGENDORF**
*The role of Ultrasonic vocalizations
in translational neuroscience*

18:00

17:00-18:30 **EXPERTS DISCUSSION PANEL**