

Tuce Tombaz

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EDUCATION

NTNU

PHD IN NEUROSCIENCE

Expected Dec 2019 | Trondheim, NO

ITU

BS IN MOLECULAR BIOLOGY AND GENETICS

Aug 2012 | Istanbul, TR

GPA: 3.55 / 4.00

LINKS

Twitter:// @tucetombaz

LinkedIn:// tuce-tombaz

NTNU:// tuce.tombaz

ARTICLES

PUBLISHED

Mimica B., Dunn AB., **Tombaz, T.**, Bojja VPTNCS., Whitlock RJ. (2018). Efficient cortical coding of 3D posture in freely moving rats. *Science* 362, 584-589.

Braubach, OR., **Tombaz, T.**, Geiller, T., Homma, R., Bozza, T., Cohen, LB., Choi, Y. (2018). Sparsened neuronal activity in an optogenetically activated olfactory glomerulus. *Scientific Reports* 8:14955.

PRE-PRINT

Tombaz, T., Dunn BA, Hovde K, Cubero RJ, Mimica B, Mamidanna P, Roudi Y, Whitlock JR. (2019). Action representation in the mouse parieto-frontal network. *bioRxiv*

TRAINING

SUMMER SCHOOLS

CSHL Imaging Structure & Function in the Nervous System 2019 (HHMI grant)

CONFERENCES

ACChemS 2013, SfN 2016, FENS 2018, SfN 2018

SKILLS

LABORATORY

1- & 2-p imaging, optogenetics, chemogenetics, e-phys, immunohistochemistry, rodent behavior

PROGRAMMING

Python, Matlab, LaTeX

EXPERIENCE

KAVLI INSTITUTE/NTNU | PHD CANDIDATE

March 2014 – Jan 2020 | Trondheim, Norway

- Advisor: **Dr. Jonathan R. Whitlock**
Project: Action representation in the mouse parieto-frontal network
Techniques: Animal behaviour; 1-photon imaging; chemogenetic excitation and inhibition; viral gene transfer; immunohistochemistry; data analysis

BRAIN SCIENCE INSTITUTE, KIST | RESEARCH ASSISTANT

Sep 2012 – Feb 2014 | Seoul, Republic of Korea

- Advisor: **Dr. Lawrence B. Cohen**
Project: *In vivo* calcium imaging of a selectively optically activated glomerulus and associated interneurons in mice
Techniques: *In vivo* 2-photon calcium imaging; optogenetics; viral gene transfer

ROSKILDE UNIVERSITY | THESIS INTERN

Feb 2012 – June 2012 | Roskilde, Denmark

- Advisor: **Dr. Annika Bagge**
Project: The effect of miR-29a on oxidative stress in pancreatic beta cells bearing elevated level of glucose
Techniques: Flow cytometry; cell culture in INS-1E; western blotting

ROSKILDE UNIVERSITY | STUDENT INTERN

Sep 2011 – Jan 2012 | Roskilde, Denmark

- Advisor: **Dr. Godefroit Charbon**
Project: Identification of DNA Replication Regulatory Factors
Techniques: Spectrophotometric nucleic acid quantification; gel image analysis competent cell preparation; agarose gel electrophoresis; molecular cloning (PCR, restriction, ligation, transformation)

SCHOOL OF MEDICINE, YALE UNIVERSITY | SUMMER INTERN

June 2011 – Sep 2011 | Yale, USA

- Advisor: **Dr. Lawrence B. Cohen**
Project: Optical imaging of fluorescent protein voltage sensitive probes in mammalian cells
Techniques: Whole cell patch clamp; voltage and current clamp techniques; cell culture in HEK

MARINE BIOLOGICAL LABORATORY | SUMMER INTERN

July 2011 | Woods Hole, USA

- Advisor: **Dr. Lawrence B. Cohen**
Project: Processing Data of Odorant Receptor Neurons in Mouse Olfactory Bulbs
Techniques: Analysis of imaging data

BOGAZICI UNIVERSITY, TURKEY | SUMMER INTERN

July 2010 - Dec 2010 | Istanbul, Turkey

- Advisor: **Dr. Arzu Celik**
Project: Molecular Basis of Olfaction in *Drosophila Melanogaster*
Techniques: GAL4-UAS gene expression system; handling techniques of *Drosophila Melanogaster* (Growing, crossing, flipping and etc.); immunohistochemistry; optical (fluorescence) imaging; in situ hybridization