


Yifat Prut, PhD



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Yifat Prut

Education:

| Date | Institution | Area of study | Degree | Supervisor |
|-----------|------------------|---------------|--------|------------------|
| 1986-89 | Hebrew Univ | Medicine | BSc | - |
| 1989 | Hebrew Univ | Neurobiology | MSc | Prof. M Abeles |
| 1990-1995 | Hebrew Univ | Neurobiology | PhD | Prof. M Abeles |
| 1995-2001 | U. of Washington | Spinal cord | NA | Prof. E. E. Fetz |

Employment

2001-2007, Lecturer, Dept. of Medical Neurobiology, Hebrew University, Israel

2008- 2013 Senior lecturer, Dept. of Medical Neurobiology, Hebrew University, Israel

2009- Member of Edmond and Lily Safra Center for Brain Sciences (ELSC)

2013- Associate Professor, Dept. of Medical Neurobiology, IMRIC and ELSC

2021- Professor, ELSC

Selected list of publication

Articles in peer reviewed journals

1. Shalit U, Zinger N, Joshua M, **Prut Y**. Descending systems translate transient cortical commands into a sustained muscle activation signal. *Cerebral Cortex*. 2012 Aug;22(8):1904-14
2. Zinger N, Harel R, Gabler S, Israel Z, **Prut Y**. Functional organization of information flow in the corticospinal pathway. *J Neurosci*. 2013 Jan 16;33(3):1190-7
3. Aumann TD, **Prut Y**. Do sensorimotor β -oscillations maintain muscle synergy representations in primary motor cortex? *Trends Neurosci*. 2015 Feb;38(2):77-85
4. Cohen O, Harel R, Aumann TD, Israel Z, **Prut Y**. Parallel processing of internal and external feedback in the spinocerebellar system of primates. *J Neurophysiol*. 2017 Jul 1;118(1):254-266.

5. Nashef A, Cohen O, Israel Z, Harel R, **Prut Y**. Cerebellar Shaping of Motor Cortical Firing Is Correlated with Timing of Motor Actions. Cell Reports. 2018; 3(5):1275-1285.
6. Nashef A, Cohen O, Harel R, Israel Z, **Prut Y**. Reversible block of cerebellar outflow reveals cortical circuitry for motor coordination. Cell Reports 2019; 27(9): 2608-2619. (*Highlighted in Cell Reports 27(9):2525-2526)
7. Nashef A, Mitelman R, Harel R, Joshua M and **Prut Y**. Area-specific thalamocortical synchronization underlies the transition from motor planning to execution. PNAS 2021; Feb 9;118(6):e2012658118.
8. Nashef A, Cohen O, Perlmutter SI, Prut Y. A cerebellar origin of feedforward inhibition to the motor cortex in non-human primates. Cell Rep. 2022 May 10;39(6):110803.

Abstracts appearing in peer-reviewed meetings

1. Sinha N, Nashef A, Israely S and **Prut Y**. Blockage of cerebellar outflow changes the spatiotemporal organization of muscle activity. Proceeding in Cosyne Meeting 2020.
2. Blocking cerebellar signals increases internal noise and impairs motor adaptation. Israely S., Mawase F and **Prut Y**. Motor Learning Motor Control (MLMC) Meeting 2021.