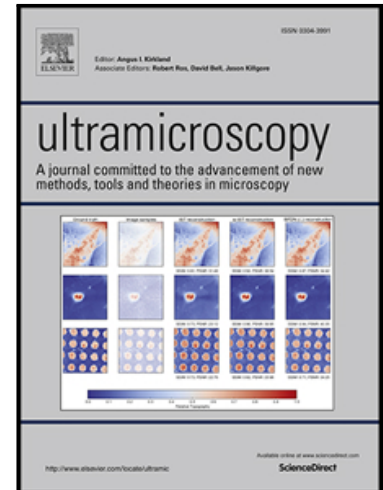


# Accepted Manuscript

Direct Investigation of Charge Transfer in Neurons by Electrostatic Force Microscopy

Weidong Zhao , Wei Cui , Shujun Xu , Yuanyuan Wang ,  
Ke Zhang , Deyu Wang , Ling-Zhi Cheong ,  
Flemming Besenbacher , Cai Shen

PII: S0304-3991(18)30101-3  
DOI: <https://doi.org/10.1016/j.ultramic.2018.09.015>  
Reference: ULTRAM 12659



To appear in: *Ultramicroscopy*

Received date: 22 March 2018  
Revised date: 5 September 2018  
Accepted date: 20 September 2018

Please cite this article as: Weidong Zhao , Wei Cui , Shujun Xu , Yuanyuan Wang , Ke Zhang , Deyu Wang , Ling-Zhi Cheong , Flemming Besenbacher , Cai Shen , Direct Investigation of Charge Transfer in Neurons by Electrostatic Force Microscopy, *Ultramicroscopy* (2018), doi: <https://doi.org/10.1016/j.ultramic.2018.09.015>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Highlights**

- Using Electrostatic Force Microscopy (EFM) approach to study charge propagation and distribution in hippocampal neurons for the first time.
- Quantitatively study the charge density, charge mobility and membrane potential.
- Revealing the postsynaptic densities (PSD) in spines of axons and dendrites structures at nanoscale.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/10672885>

Download Persian Version:

<https://daneshyari.com/article/10672885>

[Daneshyari.com](https://daneshyari.com)