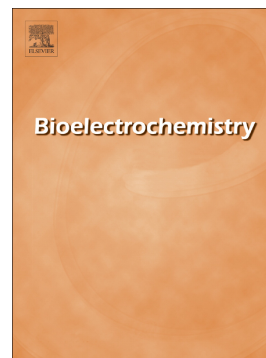


Accepted Manuscript

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PII: S1567-5394(17)30611-4
DOI: doi:[10.1016/j.bioelechem.2018.04.008](https://doi.org/10.1016/j.bioelechem.2018.04.008)
Reference: BIOJEC 7144
To appear in: *Bioelectrochemistry*
Received date: 5 December 2017
Revised date: 17 April 2018
Accepted date: 17 April 2018

Please cite this article as: Joanna Weźgowiec, Julita Kulbacka, Jolanta Saczko, Joanna Rossowska, Grzegorz Chodaczek, Małgorzata Kotulska , Biological effects in photodynamic treatment combined with electropermeabilization in wild and drug resistant breast cancer cells. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Biojec(2017), doi:[10.1016/j.bioelechem.2018.04.008](https://doi.org/10.1016/j.bioelechem.2018.04.008)

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Biological effects in photodynamic treatment combined with electropermeabilization in wild and drug resistant breast cancer cells

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Highlights:

- Electroporation enhanced transport of Photofrin and IR-775 to breast cancer cells
- Electro-photodynamic treatment decreased cell metabolism and proliferation
- Cellular defense system was triggered in response to electro-photodynamic treatment
- Fragmentation of the treated cells and formation of apoptotic bodies were observed
- Electro-photodynamic therapy has potential to overcome a problem of drug resistance

Abstract

Electrochemotherapy became one of the therapeutic protocols successfully used in oncology. However, biological effects occurring in cells, especially those which are drug resistant, have not been studied thoroughly. This study presents response of wild and drug

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