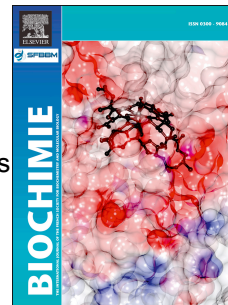


Accepted Manuscript

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PII: S0300-9084(17)30259-6

DOI: [10.1016/j.biochi.2017.10.007](https://doi.org/10.1016/j.biochi.2017.10.007)

Reference: BIOCHI 5288

To appear in: *Biochimie*

Received Date: 10 September 2017

Accepted Date: 12 October 2017

Please cite this article as: L. Civit, S.M. Taghdisi, A. Jonczyk, S. Haßel, C. Gröber, M. Blank, H.J. Stunden, M. Beyer, J. Schultze, E. Latz, G. Mayer, Systematic evaluation of cell-SELEX enriched aptamers binding to breast cancer cells, *Biochimie* (2017), doi: 10.1016/j.biochi.2017.10.007.

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Systematic evaluation of cell-SELEX enriched aptamers binding to breast cancer cells

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Abstract

The sensitive and specific detection of pathogenic cells is essential in clinical diagnostics. To achieve this, molecular tools are required that unequivocally recognise appropriate cell surface molecules, such as biomarkers that come along with disease onset and progression. Aptamers are short single-stranded oligonucleotides that interact with cognate target molecules with high affinity and specificity. Within the last years they have gained an increased attention as cell-recognition tools. Here, we report a systematic analysis of a cell-SELEX procedure, for the identification of aptamers that

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