

In this issue

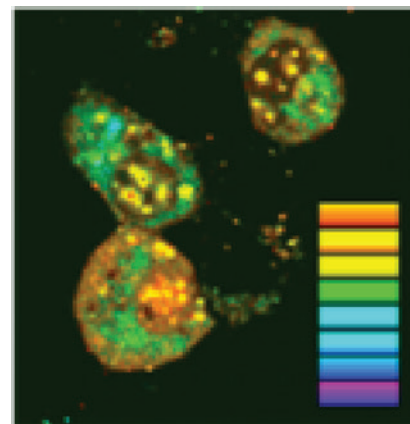
Seiichi Uchiyama and Chie Gota
Luminescent molecular thermometers for the ratiometric sensing of intracellular temperature

DOI 10.1515/revac-2016-0021

Rev Anal Chem 2017; 36(1): 20160021

Review: Ratiometric luminescent molecular thermometers measure intracellular temperatures via their temperature-dependent emission intensity ratio at two different wavelengths.

Keywords: fluorescence; living cells; luminescence; probes; temperature.



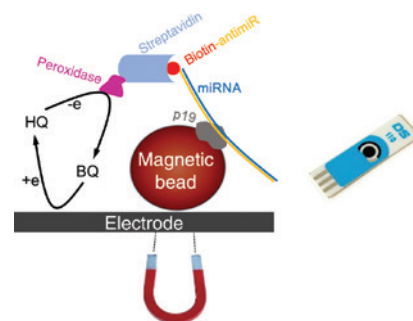
Martin Bartosik and Roman Hrstka
Bioelectrochemistry of nucleic acids for early cancer diagnostics – analysis of DNA methylation and detection of microRNAs

DOI 10.1515/revac-2016-0022

Rev Anal Chem 2017; 36(1): 20160022

Summary: Application of DNA and RNA electrochemistry into cancer diagnostics.

Keywords: cancer diagnostics; DNA methylation; electrochemistry; microRNA; molecular oncology.



Lei Ouyang, Wen Ren, Lihua Zhu and Joseph Irudayaraj
Prosperity to challenges: recent approaches in SERS substrate fabrication

DOI 10.1515/revac-2016-0027

Rev Anal Chem 2017; 36(1): 20160027

Review: We summarized recent achievements in SERS substrate fabrication based on their structural features including synthesized nanoparticles, two-dimensional planar substrates, and three-dimensional substrates.

Keywords: nanoparticles; planar substrate; surface-enhanced Raman spectroscopy; three-dimensional substrate.

