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# An electrochemical strategy with tetrahedron rolling circle amplification for ultrasensitive detection of DNA methylation

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**Abstract:** Sensitive and specific detection of DNA methylation in genomic DNA is imperative for rapid epigenetic evaluations. Here, a novel sensitive electrochemical strategy was developed for ultrasensitive detection of DNA methylation in genomic DNA *via* padlock probe primer generating rolling circle amplification (RCA). Typically, after bisulfite treatment of methylated DNA, the methylation-specific linear padlock is only circularized in the presence of methylated DNA and subsequently

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