

# Electrochemical DNA Biosensors



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An electrochemical DNA biosensor was successfully fabricated by using (3-aminopropyl)triethoxysilane (APTES) as a linker molecule combined with the gold nanoparticles

<http://www.hindawi.com/journals/jnm/2014/683460/>

Outline Biosensors Electrochemical DNA Hybridization  
Biosensor Four different pathways Three types of DNA  
sensors Conclusion and challenges

<http://web2.uconn.edu/rusling/Shenmin%20Pan.pdf>

Electrochemical DNA Biosensors [Mehmet Sengun Ozsoz] on  
Amazon.com. \*FREE\* shipping on qualifying offers. This  
book focuses on the basic electrochemical applications

<http://www.amazon.com/Electrochemical-Biosensors-Mehmet-Sengun-Ozsoz/dp/9814241776>

Abstract. This paper reviews the advancements of a wide  
range of electrochemical aptamer-based biosensors,  
electrochemical aptasensors, for target analytes  
monitoring.

<http://www.hindawi.com/journals/ijelc/2011/863196/>

1. Analyst. 2007 Jul;132(7):603-10. Epub 2007 Apr 23. An  
introduction to electrochemical DNA biosensors. Odenthal  
KJ, Gooding JJ. School of Chemistry, University of

<http://www.ncbi.nlm.nih.gov/pubmed/17592577>

Features. Discusses the potential of electrochemical  
applications in areas such as the detection of DNA  
hybridization, nanomaterials, nanoparticles, and  
aptamers

<https://www.crcpress.com/Electrochemical-DNA-Biosensors/Ozsoz/9789814241779>

Jan 28, 2012 Rating is available when the video has been  
rented. Self-assembling nanoparticle drug delivery system

<http://www.youtube.com/watch?v=OSkcUDnfHx4>

Electrochemical Biosensor for the Detection of  
Interaction Between Arsenic Trioxide and DNA Based on  
Guanine Signal

<http://onlinelibrary.wiley.com/doi/10.1002/elan.200390077/citedby>

Get this from a library! Electrochemical DNA biosensors. [Mehmet Ozsoz;] -- This book focuses on the basic electrochemical applications of DNA in various areas, from

<http://www.worldcat.org/title/electrochemical-dna-biosensors/oclc/794167492>

The development of DNA biosensor has attracted considerable attention due to their potential applications, including gene analysis, clinical diagnostics, forensic

<http://journal.chemistrycentral.com/content/7/1/65>

Electrochemical biosensors are normally based on enzymatic catalysis of a reaction that produces or DNA biosensors can theoretically be used for medical

<http://en.wikipedia.org/wiki/Biosensor>

The proof of concept of a DNA-biosensor based on a two-electrode electrochemical setup and using a microelectrode as working electrode, well adapted for detecti

<http://www.sciencedirect.com/science/article/pii/S0925400513002335>

May 31, 2011 Fabrication of Electrochemical-DNA Biosensors for the Reagentless Detection of Nucleic Acids, Proteins and Small Molecules

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3197062/>

Electrochemical DNA Biosensor Steps involved in electrochemical DNA hybridization biosensors: Formation of the DNA recognition layer Actual hybridization event

<http://www.pitt.edu/~super4/36011-37001/36421.ppt>

Microfaradaic Electrochemical Biosensors for the Study of Anticancer Action of DNA Intercalating Drug:

Epirubicin. By Krishna Pitre and Sweety Tiwari

<http://www.intechopen.com/books/biosensors-for-health-environment-and-biosecurity/microfaradaic-electrochemical-biosensors-for-the-study-of-anticancer-action-of-dna-intercalating-dru>

Abstract: An electrochemical biosensor for the detection of genetically modified food components is presented.

The biosensor was based on 21-mer single-stranded

<http://citeseerx.ist.psu.edu/showciting?cid=15966388>

The development of electrochemical DNA-biosensors has opened a wide perspective using particularly sensitive and selective methods for the detection of specific

<http://www.mdpi.com/1424-8220/5/6/377/xml>

Electrochemical DNA biosensors were described The PowerPoint PPT presentation: "ELECTROCHEMICAL DNA BIOSENORS" is the property of its rightful owner.

[http://www.powershow.com/view1/1bbf73-ZDc1Z/ELECTROCHEMICAL\\_DNA\\_BIOSENORS\\_powerpoint\\_ppt\\_presentation](http://www.powershow.com/view1/1bbf73-ZDc1Z/ELECTROCHEMICAL_DNA_BIOSENORS_powerpoint_ppt_presentation)

Abstract Since Waston and Crick established the double helical structure of DNA in 1953, nucleic acid research has become one of the most important fields in life

<http://www.tandfonline.com/doi/abs/10.1080/00032710500369794>

Electrochemical DNA Biosensors Based on Carbon Nanotubes In general, carbon nanotubes can be incorporated into the electrode configuration in the form of a paste

[http://www.academia.edu/3982145/Innovative\\_configurations\\_of\\_electrochemical\\_DNA\\_biosensors\\_A\\_Review](http://www.academia.edu/3982145/Innovative_configurations_of_electrochemical_DNA_biosensors_A_Review)

Use of electrochemical DNA biosensors for rapid molecular identification of uropathogens in clinical urine specimens (2006)

<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.326.8930>

Electrochemical DNA Biosensor for Sequences Related to the Human Papillomavirus Type 16 using Methylene Blue, <http://omicsonline.com/open-access/electrochemical-dna-biosensor-for-sequences-related-to-the-human-papillomavirus-type-using-methylene-blue-2090-4967-3-107.php?aid=28735>

Use of Electrochemical DNA Biosensors for Rapid Molecular Identification of Uropathogens in Clinical Urine Specimens. Joseph C. Liao 1,

<http://jcm.asm.org/content/44/2/561.long>

In the present study, a disposable electrochemical DNA nano-biosensor is proposed for the rapid detection of genotoxic compounds and bio-analysis of water pollu

<http://www.sciencedirect.com/science/article/pii/S1001841713004646>

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