

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Multi Disciplinary - NOC:Nanobio Technology Enabled Point-of-Care Devices

Subject Co-ordinator - Prof. Gorachand Dutta

Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction
- Lecture 2 - Biosensors and its Application
- Lecture 3 - Translational Research and Nano Biosensing
- Lecture 4 - Nanomaterials for Healthcare Biosensing
- Lecture 5 - Signal Amplification for Ultrasensitive Biosensors
- Lecture 6 - Signal Amplification for Ultrasensitive Biosensors (Continued...)
- Lecture 7 - Signal Amplification for Ultrasensitive Biosensors (Continued...)
- Lecture 8 - Signal Amplification for Ultrasensitive Biosensors (Continued...)
- Lecture 9 - Different Measurement Techniques for Electrochemical Biosensors
- Lecture 10 - Limit of Detection and Wash-Free Detection for Biosensors
- Lecture 11 - Wash-Free Detection for Biosensors (Continued...)
- Lecture 12 - Label-Free Detection for Biosensors
- Lecture 13 - Label-free detection and Multiplex Biosensors
- Lecture 14 - Multiplex Biosensors (Continued...)
- Lecture 15 - Strategy for Electrochemical Detection and Tuning of Electrocatalytic Activities
- Lecture 16 - Enhanced electrocatalytic activity for biosensors
- Lecture 17 - Strategy for Electrochemical Detection and Tuning of Electrocatalytic Activities
- Lecture 18 - Strategy for Electrochemical Detection and Tuning of Electrocatalytic Activities
- Lecture 19 - Strategy for Electrochemical Detection and Tuning of Electrocatalytic Activities
- Lecture 20 - Strategy for Electrochemical Detection and Tuning of Electrocatalytic Activities
- Lecture 21 - Strategy for Electrochemical Detection and Tuning of Electrocatalytic Activities
- Lecture 22 - Strategy for Electrochemical Detection and Tuning of Electrocatalytic Activities
- Lecture 23 - Effect of pretreatment on PCB and biosensor development
- Lecture 24 - Impact of surface Roughness of PCB and PCB for Glucose sensors
- Lecture 25 - Tutorial on Biosensors Fabrication
- Lecture 26 - Tutorial on Biosensors Fabrication (Continued...)
- Lecture 27 - Tutorial on Biosensors Fabrication (Continued...)
- Lecture 28 - Tutorial on Biosensors Fabrication (Continued...)
- Lecture 29 - Tutorial on Biosensors Fabrication (Continued...)

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- Lecture 30 - Tutorial on Biosensors Fabrication (Continued...)
- Lecture 31 - Self-Powered Biosensors
- Lecture 32 - Biosensors for Safety and Security
- Lecture 33 - Research Proposal and Ethical Clearance
- Lecture 34 - Special Chemistry for Biosensing
- Lecture 35 - Tutorial - 2
- Lecture 36 - Tutorial - 3
- Lecture 37 - Tutorial - 4
- Lecture 38 - Lab Demonstration - 1
- Lecture 39 - Lab Demonstration - 2
- Lecture 40 - Lab Demonstration - 3