

Curriculum vitae

Personal Information

Name/Surname: Antonis Kordas

Address: Dramountani 21A, 71304, Therissos, Heraklion, Crete, Greece

Date of birth: 20/08/1989

Tel.: 6956209071

E-mail: antkor89@yahoo.com, antkor89@iesl.forth.gr, akordas@materials.uoc.gr

Academic Education

12/2018-present: PhD candidate, Materials Science and Technology Department, University of Crete, Greece and IESL-FORTH under supervision of Dr. Maria Farsari and Dr. Anthi Ranella. "Three-Dimensional Scaffolds for Tissue Regeneration".

10/2012-11/2104: MSc in Protein Biotechnology, Biology Department, University of Crete, Greece. Thesis under supervision of Prof. Electra Gizeli. "Detection of pathogen bacteria in food samples using s SAW acoustic biosensor".

07/2007-11/2012: BSc in Biology, Biology Department, University of Crete, Greece. Thesis under supervision of Prof. Electra Gizeli. "Comparison of the expression levels of the *Abca1* gene using an acoustic biosensor".

Laboratory Experience

Surface Plasmon Resonance (SPR) optical biosensor, Quartz Crystal Microbalance (QCM-D) acoustic biosensor and Surface Acoustic Waves (SAW) acoustic biosensor and related software.

PCR: conventional, multiplex, asymmetric, touchdown, nested. Small experience with Real-Time PRC. Rolling Circle Amplification (RCA): conventional, hyper-branched, C2CA, RCA on biosensor surface. Primer design (PCR) and probe design (RCA).

DNA digestion, ligation and phosphorylation. DNA purification and isolation (phenol-chloroform extraction and ethanol precipitation, use of commercial kits). Agarose gel electrophoresis, SDS-PAGE, Western Blot.

Bacterial growth and culture in solid and liquid media. Bacterial lysis (enzymatic, thermal). Bacterial transformation, cloning and protein expression. Culture optical density (OD) measurements. Experience with *Salmonella typhimurium* culture.

Scientific Interests

Tissue Engineering and Regeneration

Biomaterial Scaffolds for cell growth and culture.

Neuronal Cell Regeneration

Acoustic Biosensors

Molecular Diagnostics

Food Safety

Structural Biology

Microbiology

Entomology

Foreign Languages and Computer Skills

Proficiency in English, University of Cambridge, United Kingdom.

Proficiency in English, University of Michigan, U.S.A.

Zeugnis Zentrale Mittelstufeprüfung, Goethe-Institut, Germany.

European Computer Driving License (ECDL) Progress Certificate, Syllabus Version: 4.0.
Modules: Word Processing, Spreadsheets, Information and Communication (Word, Excel, Internet). Also knowledge of PowerPoint.

Publications

1. Kordas A., Papadakis G., Milioni D., Champ J., Descroix S., Gizeli E. **Rapid Salmonella detection using an acoustic wave device combined with the RCA isothermal DNA amplification method.** *Sensing and Biosensing Research* (2016). **11**, 121-127

2. Papadakis G., Tsortos A., Kordas A., Tiniakou I., Morou E., Vontas J., Kardassis D., Gizeli E. **Acoustic Detection of DNA conformation in genetic assays combined with PCR.** *Scientific Reports* (2013);**3**:2033. DOI: 10.1038/srep02033

Other Interests/Hobbies

Chess, Board and Card games, Billiard, Electric Guitar, Cinema, Movies, Documentaries, Music.