Chiheb Esseghaier
phD student at INRS
Montreal, Quebec, Canada (Montreal, Canada Area) | Research

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Chiheb Esseghaier's Overview

Current	**phD student** at **INRS**
Past	Graduate researcher at Université de Sherbrooke
	Researcher at IPEST, Tunis
Education	INSAT de Tunis
	INSAT de Tunis
Connections	**6** connections

Chiheb Esseghaier's Summary

Publications :

- G. Suaifan, C. Esseghaier, A. Ng, M. Zourob, Wash-less and highly sensitive assay for prostate specific antigen detection, Analyst 2012, 137, 5614-5619.
- C. Esseghaier, A. Ng, M. Zourob, A novel sensitive layer for rapid HIV-1 protease detection using magnetic bead mediation, Biosens. & Bioelectron. 2013, 41, 335–341
- C. Esseghaier, S. Helali, H. Ben Fredj, A. Telili, A. Abdelghani, Polypyrrole–neutravidin layer for impedimetric biosensor, Sens. Actuators. B, 2008, 131, 584-589.
- M. G. Silva, S. Helali, C. Esseghaier, C. Suarez, A. Oliva, A. Abdelghani, An impedance spectroscopy method for the detection and evaluation of Babesia bovis antibodies in cattle, Sens. Actuators B, 2008, 135, 206-213.
- C. Esseghaier, Y. Bergaoui, H. ben Fredj, A. Tlili, S. Helali, S. Ameur, A. Abdelghani, Impedance spectroscopy on immobilized streptavidin horseradish peroxidase layer for biosensing, Sens. Actuators B, 2008, 134, 112-116.
- H. Ben Fredj, S. Helali, C. Esseghaier, L. Vonna, L. Vidal, A. Abdelghani, Labeled magnetic nanoparticles assembly on polypyrrole film for biosensor applications, Talanta 2008, 75, 740-747.

Conferences :

- 14th Canadian Semiconductor Technology Conference, Hamilton 2009.
- 22th World Congress on Biosensors, Cancun 2012.
- Photonics North Conference, Montreal 2012.
- TechConnect World Conference, Santa Clara 2012.

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Chiheb Esseghaier's Experience

phD student
INRS
Educational Institution; 201-500 employees; Research industry
November 2010 – Present (2 years 6 months) | Quebec, Canada

Surface functionnalization and charcaterizations.

Monitoring bio-chemical interactions through application of optical and electrochemical transducers.

Development of lab-on-a-chip device for biosensing purposes.

Graduate researcher
Université de Sherbrooke
Educational Institution; 5001-10,000 employees; Higher Education industry
August 2008 – September 2009 (1 year 2 months) | Quebec, Canada

Detection of influenza A virus using surface plasmon resonance (SPR) technique.

Bio-chemical modification of Gallium arsenide substrates for bio-sensing purposes.

Researcher
IPEST, Tunis
June 2007 – July 2008 (1 year 2 months) | Tunisia

Electrochemical biosensing of peroxide (food processing industry), atrazine (environment monitoring)

and Babesia Bovis virus (cattle breeding) using impedance spectroscopy technique.

Chiheb Esseghaier's Languages

- Arabic
- Frensh
- English

Chiheb Esseghaier's Skills & Expertise

Microscopy	Nanotechnology	AFM	Spectroscopy	Characterization	Physics	Nanoparticles	Powder X-ray Diffraction
Biochemistry	Microfabrication	XPS	Systems Biology	Molecular Biology	Materials Science	Nanofabrication	

Chiheb Esseghaier's Education

INSAT de Tunis
Master's degree, Industrial Biotechnology
2006 – 2008

INSAT de Tunis
Bachelor of Engineering (B.E.), Industrial Biology
2001 – 2007

Chiheb Esseghaier's Additional Information

Groups and Associations: NANOMATERIALS, NANOSCIENCES, NANOTECHNOLOGIES, NANOFORMULATIONS & CLEAN TECHNOLOGIES

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