

## Procédé de détection d'une infection bactérienne dans un échantillon biologique

### Abstract

La présente invention concerne un procédé d'indication de la présence d'une infection bactérienne dans un échantillon biologique. Le procédé détecte un marqueur pour une infection par fourniture d'un dispositif, le dispositif comprenant un biocapteur, une interaction se produisant entre le biocapteur et le marqueur lorsque le marqueur est présent dans l'échantillon biologique. La mise en contact d'au moins une partie de l'échantillon biologique avec le biocapteur du dispositif, par conséquent, permet l'analyse de l'échantillon biologique en ce qui concerne le marqueur par détection de l'interaction entre le biocapteur et le marqueur. Un marqueur préféré est l'enzyme amylase.

### Classifications

- **C12Q1/40** Measuring or testing processes involving enzymes, nucleic acids or microorganisms; Compositions therefor; Processes of preparing such compositions involving hydrolase involving amylase

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EP3445867A1

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**Other languages:** [German](#), [English](#)

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**Current Assignee:** [Swansea University](#)

### Worldwide applications

2017 - [US](#) [WO](#) [EP](#)

### Application EP17722120.7A events

**2016-04-15** • Priority to GB201606732

**2017-04-14** • Application filed by Swansea University

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**Status** • ● Pending

**Info:** [Patent citations \(5\)](#), [Legal events](#), [Similar documents](#), [Priority and Related Applications](#)

**External links:** [Espacenet](#), [EPO GPI](#), [EP Register](#), [Global Dossier](#), [Discuss](#)

### Patent Citations (5)

Publication number	Priority date	Publication date	Assignee	Title
Family To Family Citations				
<a href="#">GB2381452B</a> *	2001-11-05	2005-08-10	Johnson & Johnson Medical Ltd	Wound monitoring
<a href="#">WO2005121357A2</a> *	2004-06-11	2005-12-22	Ethicon, Inc.	Diagnostic et pronostic d'infection de blessures par la mesure d'une phospholipase a2 dans un fluide de cette blessure
<a href="#">GB2471672B</a> *	2009-07-07	2015-12-09	Swansea Innovations Ltd	Graphene biosensor
<a href="#">EP3180620B1</a> *	2014-08-12	2020-01-01	X4 Pharmaceuticals (Austria) GmbH	Prédiction de maladie de s. aureus
<a href="#">CN104237344A</a> *	2014-09-02	2014-12-24	济南大学	用于卡那霉素检测的电化学适体电极及其制备方法

\* Cited by examiner, † Cited by third party

### Similar Documents

Publication	Publication Date	Title
<a href="#">Kleiman et al.</a>	2015	The intestinal microbiota in acute anorexia nervosa and during renourishment: relationship to depression, anxiety, and eating disorder psychopathology
<a href="#">Mima et al.</a>	2015	Fusobacterium nucleatum and T cells in colorectal carcinoma
<a href="#">US10345296B2</a>	2019-07-09	Device and method for biomarker detection
<a href="#">Fan et al.</a>	2017	A wireless point-of-care testing system for the detection of neuron-specific enolase with microfluidic paper-based analytical devices
<a href="#">Levy et al.</a>	2008	Propionibacterium acnes postoperative shoulder arthritis: an emerging clinical entity
<a href="#">Katz et al.</a>	2003	Probing biomolecular interactions at conductive and semiconductive surfaces by impedance spectroscopy: routes to impedimetric immunosensors, DNA-sensors, and enzyme biosensors

Li et al.	2005	Study of carbon nanotube modified biosensor for monitoring total cholesterol in blood
Du et al.	2012	Integrated lateral flow test strip with electrochemical sensor for quantification of phosphorylated cholinesterase: biomarker of exposure to organophosphorus agents
Yuqing et al.	2003	Ion sensitive field effect transducer-based biosensors
McCracken et al.	2001	Molecular ecological analysis of dietary and antibiotic-induced alterations of the mouse intestinal microbiota
Pappa et al.	2016	Organic transistor arrays integrated with finger-powered microfluidics for multianalyte saliva testing
Zhang et al.	2007	Development and analytical application of an uric acid biosensor using an uricase-immobilized eggshell membrane
Luo et al.	2013	Ultrasensitive label free electrical detection of insulin in neat blood serum
Pearce et al.	1997	Pharmacologic characterization of botulinum toxin for basic science and medicine
Bunikowski et al.	1999	Prevalence and role of serum IgE antibodies to the Staphylococcus aureus-derived superantigens SEA and SEB in children with atopic dermatitis
Rowe et al.	1999	An array immunosensor for simultaneous detection of clinical analytes
Viveros et al.	2006	A fluorescence-based biosensor for the detection of organophosphate pesticides and chemical warfare agents
Labib et al.	2012	Aptamer-based impedimetric sensor for bacterial typing
Bahadir et al.	2015	Applications of commercial biosensors in clinical, food, environmental, and biothreat/biowarfare analyses
Vieira Ribeiro et al.	2011	Cytokines and bone-related factors in systemically healthy patients with chronic periodontitis and patients with type 2 diabetes and chronic periodontitis
Brannan et al.	2006	Synovial fluid analysis
Kirsch et al.	2013	Biosensor technology: recent advances in threat agent detection and medicine
Li et al.	2015	The diagnostic value of cerebrospinal fluids procalcitonin and lactate for the differential diagnosis of post-neurosurgical bacterial meningitis and aseptic meningitis
Brubaker et al.	2017	The female urinary microbiota, urinary health and common urinary disorders
Wueppenhorst et al.	2009	Identification and molecular characterization of triple-and quadruple-resistant Helicobacter pylori clinical isolates in Germany

## Priority And Related Applications

### Priority Applications (2)

Application	Priority date	Filing date	Title
GB201606732		2016-04-15	
<a href="#">PCT/GB2017/000058</a>	2016-04-15	2017-04-14	Procédé de détection d'une infection bactérienne dans un échantillon biologique

### Legal Events


Date	Code	Title	Description
2019-02-27	17P	Request for examination filed	<b>Effective date:</b> 20181022
2019-02-27	AK	Designated contracting states	<b>Kind code of ref document:</b> A1 <b>Designated state(s):</b> AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
2019-02-27	AX	Request for extension of the european patent	<b>Extension state:</b> BA ME
2019-07-24	DAX	Request for extension of the european patent (deleted)	
2019-12-11	17Q	First examination report despatched	<b>Effective date:</b> 20191106

### Concepts

machine-extracted

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Name	Image	Sections	Count	Query match
■ Bacterial infection		title,claims,abstract,description	20	0.000
■ Amylases		claims,abstract,description	148	0.000

■ Amylases	claims,abstract,description	148	0.000
■ diseases by infectious agent	claims,abstract,description	109	0.000
■ marker	claims,abstract,description	105	0.000
■ interaction	claims,abstract,description	16	0.000
■ Amylase	claims,description	167	0.000
■ amylase	claims,description	146	0.000
■ effects	claims,description	33	0.000
■ antibodies	claims,description	25	0.000
■ antibodies	claims,description	25	0.000
■ carbon	claims,description	24	0.000
			
■ Enzymes	claims,description	22	0.000
■ Enzymes	claims,description	22	0.000
■ graphene	claims,description	21	0.000
■ electrochemical-induced impedance spectroscopy	claims,description	18	0.000
■ response	claims,description	16	0.000
■ Blood	claims,description	8	0.000
■ blood	claims,description	8	0.000
■ diseases	claims,description	7	0.000
■ Injuries	claims,description	4	0.000
■ analytical methods	abstract,description	7	0.000

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