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Project acronym: DISCOGNOSIS
Project title: Disc-shaped Point-of-Care platform for infectious disease diagnosis

Deliverable D9.3

Project web site

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Dissemination level:²	CO
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Responsible partner & authors:	Beat Löffler, CLINAM
Cooperating partner & authors:	Input by all partners
Revision:	Revision will be done by external evaluators and the EC

¹ R = Report, P = Prototype, D = Demonstrator, O = Other








² PU = Public, PP = Restricted to other programme participants (including the Commission Services), RE = Restricted to a group specified by the consortium (including the Commission Services), CO = Confidential, only for members of the consortium (including the Commission Services)

Document information

Contract Number	FP7-318408	Acronym	DiscoGnosis
Full title	Disc-shaped Point-of-Care platform for infectious disease diagnosis		
Project URL	www.discognosis.eu		

Deliverable	Number	D9.3	Name	Project web site
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Work package	Number	WP9	Name	Dissemination and exploitation
Date of delivery	Contractual	31.07.2013	Actual	08.08.2013
Nature	Report <input type="checkbox"/> Prototype <input type="checkbox"/> Demonstrator <input type="checkbox"/> Other <input checked="" type="checkbox"/>			
Dissemination Level	PU <input checked="" type="checkbox"/> PP <input type="checkbox"/> RE <input type="checkbox"/> CO <input type="checkbox"/>			
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DiscoGnosis Project Consortium

IMTEK, ALU-FR		
		
Rohrer AG	University Medical Center Göttingen	Magnamedics Diagnostics (MMD)
		
University Hospital Basel	CLINAM	MAST Group Ltd
		



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1 Revision history

1.1 *Track list of changes*

Revision	Action	Date	List of changes	Author responsible
v1.1*	Submitted to EC for review	08.08.2013	None: first draft	Beat Löffler (CLINAM)

* v1.x refers to the version No. x before review No.1

v2.x refers to the version No. x before review No.2

...

2 Summary

The official project web site is: www.discognosis.eu. Additionally and to cover a broader viewing, the ".org" domain has also been purchased, therefore the www.discognosis.org also applies.

This deliverable is part of the scientific dissemination of DiscoGnosis and in particular the web-based level of dissemination. The scope of this deliverable is to launch a web site through which:

- (i) the project will be familiarized to the general public, so that the latter is informed about the need, the objectives, and the expected impact of the project;
- (ii) the technical advancements can be disseminated to the research community, giving the chance for networking and communicating with other similar running actions or interested stakeholders, end-users, target groups etc;
- (iii) the project partners can exchange information and data via a safe and secured intranet.

3 Structure of the web site

The web site has the following structure (tabs and sub-tabs; "snapshots" of the tabs are taken at the time of writing of this document).

3.1 Tab "Home"

The tab "Home" provides some concentrated information about the project (right column) and its general background, in an easy-to-understand language, as well as an acknowledgement to the funding body, namely the European Commission.



DiscoGnosis
disc-shaped point-of-care platform
for infectious disease diagnosis

HOME OBJECTIVES CONSORTIUM PROJECT STRUCTURE NEWS EVENTS LINKS MEMBERS CONTACT

Search...

Welcome to DiscoGnosis...

An EC-funded research project for Point-of-Care diagnosis of malaria and tropical diseases on a CD-like operating platform



Plastic disposable disc (left) inserted into the Point-of-Care detection platform (right)

The FP7 research project "DiscoGnosis" ("Disc-shaped Point-of-Care platform for infectious disease diagnosis") was launched beginning of November 2012 in University of Freiburg, at the Department of Microsystems Engineering (IMTEK). Its core objective is to develop a platform that would allow the detection of malaria and similar pathogenic diseases in a rapid, multiplexed and non-invasive way.

Malaria and tropical diseases
Malaria is one of the most crucial health threats. An estimated 220 million people get infected every year; 650.000 cases lead to death, 20% of which are within small children. The disease is still on advance mainly in Africa and other tropical developing countries with acute fever being the only symptom. In these regions, fever can also result from Salmonella typhi/paratyphi bacteria or dengue and chikungunya viruses, all of which, like malaria, are transmitted by mosquitos. Clinical surveys have shown that 30 to 40% of the patients are falsely treated for malaria without even being infected by it, due to inaccurate diagnosis. It is, therefore, vital to establish accurate diagnostic tools to distinguish these diseases and apply the appropriate therapy.

The technological approach
The DiscoGnosis platform will operate similarly to a CD player: a disc-shaped plastic disposable chip will handle the injected blood sample, distributing it among integrated microfluidic chambers and units using centrifugal forces. All necessary (bio)chemical components will be pre-stored on the disc, together with micro/nanocomponents for fully automated analysis in a precise, rapid, sensitive and multiplexed way with minimum external intervention. The involved technologies will enable diagnosis to be conducted closely to the patient and provide large populations with a modern diagnostic Point-of-Care tool in regions with low medical infrastructure. The platform will further enhance the "shield" of Europe against potential spread of the examined diseases due to climate change and globalisation.

The project consortium
The 3-year DiscoGnosis project received 3 M€ total funding from the European Commission. It is coordinated by the University of Freiburg, Department of Microsystems Engineering (IMTEK) in close collaboration with the partners: Rohrer AG, University Hospital Basel and European Foundation for Clinical Nanomedicine (CLINAM) from Switzerland; University Medical Center Göttingen from Germany; Magnamedics Diagnostics BV from the Netherlands; MAST Group Ltd from the United Kingdom. Multidisciplinary teams of biologists, chemists, engineers and clinicians will cooperate for the realization of this ambitious project of high socioeconomic impact.

Next & Latest Events

- 15-16 April 2013:**
2nd DiscoGnosis Project Meeting
- 23-26 June 2013:**
The European Summit for Clinical Nanomedicine 2013
- 27-31 October 2013:**
The 17th International Conference on Miniaturized Systems for Chemistry and Life Sciences (MicroTAS 2013)

▶ read more

Project Details

Project full title:
Disc-shaped Point-of-Care platform for infectious disease diagnosis

Grant Agreement No:
318408

Type of funding scheme:
Small or medium scale focused research project (STREP)

Work programme:
ICT-2011.3.2 "Smart components and smart systems integration"

Duration:
3 years

Starting Date:
1 November 2012

End Date:
31 October 2015

Partners:
7

Total Budget:
3 784 917 Euros

EC Contribution:
2 922 000 Euros

Coordinator:
Albert-Ludwigs-University Freiburg (ALU-FR), Department of Microsystems Engineering (IMTEK)

The project is supported by the European Commission through the 7th Framework Programme on Research and Technological Development within the Objective FP7 ICT-2011.3.2 and under Grant Agreement No. 318408.

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3.2 Tab "Objectives"

The tab "Objectives" outlines the:

- motivation for the project
- diagnostic panel aimed at
- technical objectives



3.3 Tab "Consortium"

The tab "Consortium" describes the partners (and corresponding PIs and contacts), their core competences, and their role in the project (indicatively below for IMTEK, University of Freiburg). There are also links to the homepages of the partners and/or the participating groups.



3.4 Tab "Project structure"

The tab "Project structure" gives an overview of the Work Package (WP) description and the corresponding WP Leaders. Furthermore, a scheme is provided indicating the interdependency of the WPs.

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Project Structure

The DiscoGnosis consortium takes into consideration the requirements for a point-of-care diagnostic platform as well as the requirements set by the special, inherent conditions met at the areas/countries of need, and has organized the project workload in the following 9 Work Packages (WPs):

WP#	WP Title	Type of activity *	Leading partner	WP Leader
WP1	▶ Project Management	MGT	ALU-FR/ IMTEK	Konstantinos Mitsakakis
WP2	▶ System specifications and quality control	RTD	MAST	Liz Gilles
WP3	▶ Multiplexed detection	RTD	MMD	Sven Goethel
WP4	▶ DNA assay development	RTD	UMG	Frank Hufert
WP5	▶ Protein assay development	RTD	UHBS	Georgette Beugebar
WP6	▶ Microfluidic platform, components and system integration	RTD	ALU-FR/ IMTEK	Konstantinos Mitsakakis
WP7	▶ Disposable production technology	RTD	Rohrer	Andreas Blömeke
WP8	▶ Clinical validation and data management	RTD	UHBS	Patrick Hunziker
WP9	▶ Dissemination and Exploitation	MGT	CLINAM	Beat Löffler

* MGT: Management activity
* RTD: Research & Technological Development activity

The strong interdependence between the WPs is depicted in the following Figure. The consortium has composed internal 2- or 3-member thematic groups for a more rapid acting and decision making.

Interdependency and cooperation between WPs in DiscoGnosis

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3.5 Tab "News"

The tab "News" gives an overview of the recent advancements related to the project. Corresponding links are provided.

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HOME OBJECTIVES CONSORTIUM PROJECT STRUCTURE NEWS EVENTS LINKS MEMBERS CONTACT

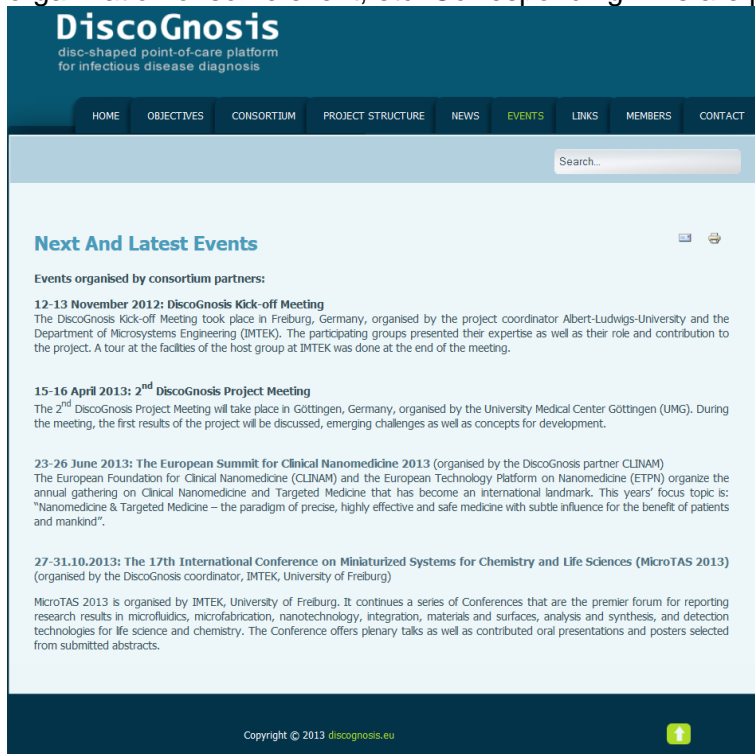
Search...

News

- 1. November 2012: Launch of DiscoGnosis project
- 21. November 2012: Press release of DiscoGnosis project: ▶ [LJIK](#)
- 15-16 April 2013: 2nd DiscoGnosis Project Meeting

3.6 Tab "Events"

The tab "Events" refers to past and forthcoming events, such as conferences, meetings, workshops, etc, that the project participates via an oral/poster contribution, demonstration, organization of some event, etc. Corresponding links are provided.



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Next And Latest Events

Events organised by consortium partners:

12-13 November 2012: DiscoGnosis Kick-off Meeting
The DiscoGnosis Kick-off Meeting took place in Freiburg, Germany, organised by the project coordinator Albert-Ludwigs-University and the Department of Microsystems Engineering (IMTEK). The participating groups presented their expertise as well as their role and contribution to the project. A tour at the facilities of the host group at IMTEK was done at the end of the meeting.

15-16 April 2013: 2nd DiscoGnosis Project Meeting
The 2nd DiscoGnosis Project Meeting will take place in Göttingen, Germany, organised by the University Medical Center Göttingen (UMG). During the meeting, the first results of the project will be discussed, emerging challenges as well as concepts for development.

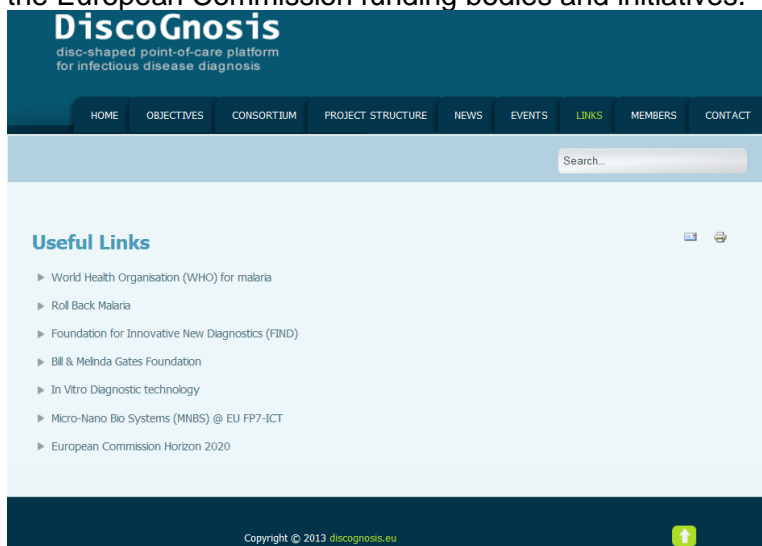
23-26 June 2013: The European Summit for Clinical Nanomedicine 2013 (organised by the DiscoGnosis partner CLINAM)
The European Foundation for Clinical Nanomedicine (CLINAM) and the European Technology Platform on Nanomedicine (ETPN) organize the annual gathering on Clinical Nanomedicine and Targeted Medicine that has become an international landmark. This years' focus topic is: "Nanomedicine & Targeted Medicine – the paradigm of precise, highly effective and safe medicine with subtle influence for the benefit of patients and mankind".

27-31.10.2013: The 17th International Conference on Miniaturized Systems for Chemistry and Life Sciences (MicroTAS 2013) (organised by the DiscoGnosis coordinator, IMTEK, University of Freiburg)
MicroTAS 2013 is organised by IMTEK, University of Freiburg. It continues a series of Conferences that are the premier forum for reporting research results in microfluidics, microfabrication, nanotechnology, integration, materials and surfaces, analysis and synthesis, and detection technologies for life science and chemistry. The Conference offers plenary talks as well as contributed oral presentations and posters selected from submitted abstracts.

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3.7 Tab "Links"

The tab "Links" provides some useful links related to some key topics of DiscoGnosis, namely malaria, point-of-care, in-vitro diagnostics, micro/nano-biosystems as well as links to the European Commission funding bodies and initiatives.



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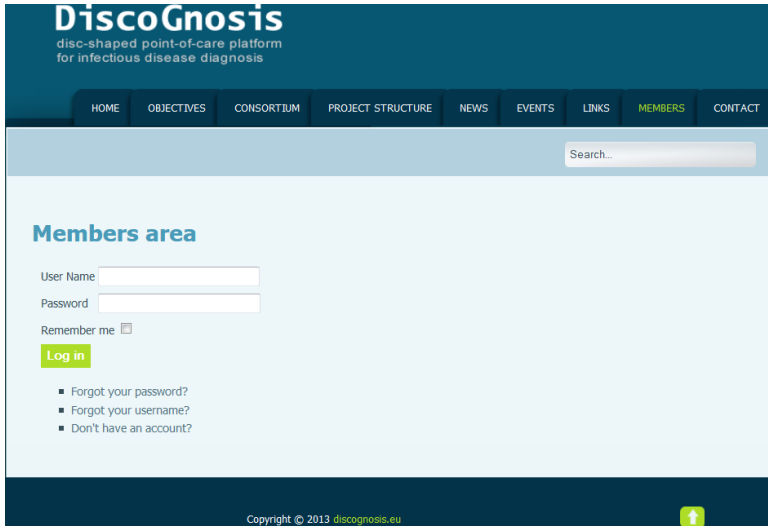
Useful Links

- ▶ World Health Organisation (WHO) for malaria
- ▶ Roll Back Malaria
- ▶ Foundation for Innovative New Diagnostics (FIND)
- ▶ Bill & Melinda Gates Foundation
- ▶ In Vitro Diagnostic technology
- ▶ Micro-Nano Bio Systems (MNBS) @ EU FP7-ICT
- ▶ European Commission Horizon 2020

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3.8 Tab "Members"

The tab "Members" enables the partners to exchange information in a secured way via an intranet. Project partners are given a username and password with which they can login to the intranet and up/download reports, draft documents, papers, etc, for comments and contributions.



The screenshot shows the DiscoGnosis website interface. At the top, there is a dark blue header with the logo and tagline "DiscoGnosis disc-shaped point-of-care platform for infectious disease diagnosis". Below the header is a navigation menu with tabs: HOME, OBJECTIVES, CONSORTIUM, PROJECT STRUCTURE, NEWS, EVENTS, LINKS, MEMBERS (highlighted), and CONTACT. A search bar is located below the navigation menu. The main content area is titled "Members area" and contains a login form with fields for "User Name" and "Password", a "Remember me" checkbox, and a green "Log in" button. Below the login form are three links: "Forgot your password?", "Forgot your username?", and "Don't have an account?". The footer of the page includes the copyright notice "Copyright © 2013 discognosis.eu" and a small green icon.

3.9 Tab "Contact"

The tab "Contact" provides the information for the viewers who are interested to contact the Project Coordinator or the Project Officer for any questions; contact info of the individual partners is available under the tab "Consortium".

4 Web site management

The web site was setup based on Joomla, a free and open source content management system (CMS) for publishing content on the World Wide Web and intranets. The domains ".eu" and ".org" have been occupied for the project. The partner responsible for the web site's content is CLINAM, in cooperation with all partners who regularly provide relevant (updated) technical and dissemination material. The web site is updated regularly and during the whole lifetime of the project based on internal input (from partners) or external feedback (from viewers).

5 DiscoGnosis link with other web sites

The DiscoGnosis appears in personal accounts of some partners (e.g., LinkedIn) and it is linked at present to other web sites, which helps in its extended view:

- http://www.imtek.de/laboratories/mems-applications/projects/projects_applications?projectId=8073
- <http://www.loac-hsg-imit.de/en/research-projects/discognosis/>