



Contract no. 224306

LABONFOIL

Laboratory Skin Patches and SmartCards based on foils and compatible with a Smartbiophone

INSTRUMENT: Large-scale integrating project (IP)

D14.3 Final report on dissemination activities

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Responsible partner for deliverable: IK4-IKERLAN

| Project co-funded by the European Commission within the 7th Framework Programme | | | | | |
|---|---|-----------|--|--|--|
| Diss | Dissemination Level | | | | |
| PU | Public | \square | | | |
| PP | Restricted to other programme participants (including the Commission Services) | | | | |
| RE | Restricted to a group specified by the consortium (including Commission Services) | | | | |
| CO | Confidential, only for members of the consortium (including Commission Services) | | | | |





Project coordinator: IK4-IKERLAN

Responsible Partner for this Deliverable:

IK4-IKERLAN





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1. INTRODUCTION

Last report we were talking that we were preparing a second wave of scientific diffusion. This was carried out with successful results in journals and conferences. At this moment, we are preparing the third wave of results in order to diffuse the last results.

This report is focused on this last period. Tables have been prepared to allow the reader a quick look into the most important diffusion results. However, we can say that LABONFOIL has created 64 articles and conference proceedings.

2. DIFFUSION TOOLS

The following section will contain the results of these diffusion tools:

- Articles, conferences and patents.
- Workshops.
- Labonfoil Web analysis.
- Fairs.
- Public media.

2.1 Articles, conferences and patents

The following tables sum up the results of this last period.





| | Last period Scientific journals | | | | | | | |
|-------------------------------|---|--------------|--|------------------------------------|------------------|--|--|--|
| Journal | Title | Date | Author | Partners | Impact factor | | | |
| Biosensors & Biolectronics | A Novel Real Time Micro PCR Based Point-of-Care Device for Salmonella Detection in Human Clinical Samples | Dic- 2011 | Verdoy, Barrenetxea, Berganzo, Agirregabiria, Ruano- López, Marimón and Olabarría | lkerlan, Gaiker, BIOEF | 5,429 | | | |
| Analyst | Real-time isothermal RNA amplification of toxic marine microalgae using preserved reagents on an integrated microfluidic platform | Oct- 2012 | Tsaloglou, Laouenan, Monsalve, Thanner, Morgan, and Mowlem | IKERLAN, EVG, NERC,uso | 4,23 | | | |
| Procedia Engineering | A self-contained diagnostic platform for DNA concentration, elution, and qPCR inside a LabCard with stored reagents | | Laouenan, Monsalve, Goiriena, Agirregabiria, Ruano-Lopez | IKERLAN | | | | |
| Procedia Engineering | Nonconventional Fluorimetric and Spectrophotometric Detection in Microfluidic Chips | | Rafał Walczak | PWR | | | | |
| Lab on a Chip Journal | Pre-storage of gelified reagents in a lab-on-a-foil system for rapid nucleic acid analysis | oct-12 | Sun, Thanner, Florian, Monsalve, Rodriguez, Caob, Wolff, Ruano and Bang | DTU, IKERLAN-IK4, EVG, Biotools | 6,26 | | | |
| BioChip Journal | Fluorescence detection by miniaturized instrumentation based on non-cooled CCD minicamera and dedicated for lab-on-a-chip applications | Sep- 2011 | Rafał Walczak (review Article) | PWR | 0.86 | | | |
| Food Control | Isolation and detection of Campylobacter jejuni from chicken fecal samples by immunomagnetic separation–PCR | | Le Ly Thuy Tram, Cuong Cao, Jonas Høgberg, Anders Wolff, Dang Duong Bang | DTU | | | | |
| TBD | Final Results from Food validation | 2013 | Under preparation | DTU | | | | |
| TBD | Final Results from CRC validation | 2013 | Under preparation | GAIKER-BIOEF | | | | |
| TBD | Final Results from Environmental validation | 2013 | Under preparation | DTU | | | | |
| TBD | Final Skinpatches | 2013 | Under Preparation | BIOSENSIA | | | | |
| Sensors and Actuators B | Characterisation of an irreversible bonding process for COC–COC and COC– PDMS–COC sandwich structures and application to microvalves | 2011 | Barbara Cortese, Matt C. Mowlem, Hywel Morgan | NOC and UoS | | | | |
| Journal of the royal society | Electroporation and lysis of marine microalga Karenia brevis for RNA extraction and amplification | 2011 | M. M. Bahi1, MN. Tsaloglou, M. Mowlem, H. Morgan | NOC and UoS | | | | |
| BPAS | Lab-on-a-chip fluorescence detection with image sensor and software-based image conditioning | 2011 | Rafal Walczak (review article) | | 0,966 | | | |
| Langmuir | Controlling the Wettability of Hierarchically Structured Thermoplastics | 2011 | Barbara Cortese and Hywel Morgan | UoS | | | | |

Figure 1. Last period Scientific journals.





| | LIST OF APPLICATIONS FOR PATENTS, TRADEMARKS, REGISTERED DESIGNS, ETC. | | | | | | | |
|---------------------------|--|--|--|---|---------------------------------------|--|--|--|
| Type of IP Rights | Confidential Click on YES/NO | Foreseen embargo date dd/mm/yyyy | Application reference(s) (e.g. EP123456) | Subject or title of application | Applicant (s) (as on the application) | | | |
| PCT | YES | 07/07/2010 | PCT ES2011070291 | Method for Producing Microfluid Devices | IKERLAN | | | |
| PCT | YES | 12/11/2012 | PCT ES2012070785 | Method for Producing a Microfluid Device | IKERLAN | | | |
| PCT | YES | 31/12/2012 | PCT ES2012070923 | Sistema Potenciador de la Repetitividad y Reproducibilidad en Camaras de Reaccion | IKERLAN | | | |
| PCT | YES | 2012 | PCT ES2012070887 | Device to provide samples | IKERLAN | | | |
| Registered Methodology | YES | | Under progress | Method to develop IVD systems based on LabonaChip | IKERLAN | | | |
| Trademark | YES | 2009 | | SmartBioPhone | IKERLAN | | | |

Figure 2 Last period Intellectual property. More about patents in D14.5





| Scientific Conferences | | | | | | |
|------------------------|---|----------------|-------------------------------|--|--------------|--|
| Conference Title | | Date | Speaker | Author | Partners | |
| EUROSENSORS 2012 | A self-contained diagnostic platform for DNA concentration, elution, and qPCR inside a LabCard with stored reagents | sep-12 | Jesus Ruano (Invited talk) | Laouenan, Monsalve, Goiriena, Agirregabiria,. Ruano-Lopez | IKERLAN | |
| Rapid Methods | A LabonaChip integrated into a smart system | Jan/13 | Jesus Ruano (Invited talk) | Jesus Ruano | IKERLAN | |
| EUROSENSORS 2012 | Nonconventional fluorimetric and spectrophotometric detection in microfluidic chips | September 2012 | Rafał Walczak | Rafał Walczak (review presentation) | All partners | |
| MEMSTECH 2012 | Labs-on-a-chip with optical detection for life-science applications | April 2012 | Rafał Walczak | Rafał Walczak (review presentation) | All partners | |
| EUROSENSORS 2011 | Non-cooled low-cost CCD camera module as fluorescence detector for lab-on-a-chip life-science applications | Spetember 2011 | Rafał Walczak | Rafał Walczak (review presentation) | All partners | |

Figure 3. . Last period Conferences. Few conference have been prepared, since our objective was to submit papers due to the consolidated results.





2.2 Workshops

Apart from the Labonfoil workshop at Wroclaw, TATAA organized and promoted an open meeting for all interested in immuno qPCR LOC technologies with special attention paid to promote LABONFOIL.

2.3 Labonfoil Web page analysis

Using Google analytics, we have the possibility to track the visits to the web. This system was installed in February 2010. During the last period (almost two years), the number of visitors has increased from 2500 to 5200. Therefore, we have double the visitors. This gives an idea of the impact of LABONFOIL in several aspects including Exploitation diffusion and public media. The table below shows a brief summary of the results. It is interesting the important increase of visitors from US and from India as an indication of the contacts established through several links. See Fair participation.

| | Nivel de detalle: País/territorio 😆 | Visitas 🗸 | Páginas/visita | Promedio de tiempo en el sitio | Porcentaje de visitas nuevas | Porcentaje de rebote |
|-----|-------------------------------------|-----------|----------------|-----------------------------------|---------------------------------|----------------------|
| 1. | Spain | 567 | 4,02 | 00:04:00 | 60,67% | 29,81% |
| 2. | Germany | 438 | 2,70 | 00:01:32 | 35,84% | 64,38% |
| 3. | Ireland | 222 | 2,79 | 00:02:18 | 15,77% | 72,97% |
| 4. | United Kingdom | 162 | 4,01 | 00:02:47 | 78,40% | 26,54% |
| 5. | Poland | 159 | 2,79 | 00:01:58 | 59,75% | 50,31% |
| 6. | France | 130 | 4,62 | 00:03:53 | 66,92% | 20,00% |
| 7. | United States | 115 | 3,75 | 00:03:14 | 76,52% | 36,52% |
| 8. | Austria | 110 | 5,36 | 00:03:30 | 58,18% | 30,91% |
| 9. | Denmark | 105 | 4,14 | 00:04:03 | 40,00% | 22,86% |
| 10. | Sweden | 35 | 3,23 | 00:01:55 | 77,14% | 40,00% |

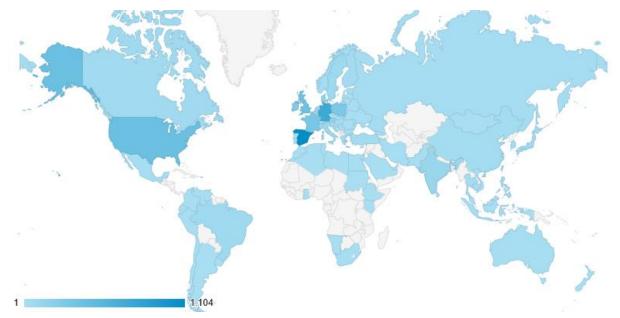


Figure 4. Outline of the Labonfoil web analysis. The reader can see that Labonfoil has reached a world wide spread diffusion. On the bottom, there is a ranking of the countries.





2.4 Fairs

In year 4 and throughout the extension period of the project LABONFOIL attended the following conferences and Tradeshows:

- Medica 2011, November 14-17, 2011 in Dusseldorf, Germany.
- AACC Oak Ridge Conference, April 19 20, 2012, at The Fairmont in San José, CA.
- Advamed 2012 Boston Convention and Exhibition Centre, October 2nd & 3rd 2012.
- Medica 2012, November 14-17, 2012 in Dusseldorf, Germany.
- Participation in COWIN in Helsinki: This was also mentioned in previous report. Although, other EU projects got contacts through this event, we obtain few interested companies. We believe that the forum was not appropriate.
- Participation in MF4 forum. We have participated in a forum called MF4 (http://www.cfbi.com/microfluidics.htm). After our presentation, some partners of the LABONFOIL consortium has joined this consortium to diffuse Labonfoil results and other internal progresses. This workshop has provided a vision of the manufacturing issues and the IVD market.
- Participation in COWIN in Brussels with Investors: Through COWIN (http://www.cowin4u.eu/), an EU support action, we exhibit the Labonfoil results, reader, flyers and comics. COWIN has been a perfect complement for LABONFOIL diffusion being much more effective in this last period.





Figure 5. Pictures of the Project Coordinator at COWIN event in Helsinki and Brussels.

It is worthwhile to mention the support and diffusion obtained through COWIN, LABONFOIL was established within the three most attractive Projects from their list. This fact was mentioned and written in I-Micronews. In fact, this diffusion has provided fruitful contacts with companies that are under negotiation within the water quality sector.

2.5 Last period Labonfoil Public media

LABONFOIL search on google provide 1850 web links. The cartoon has provided us a chance of being known by the public media. Among them, you can find these ones:

• Press Release about Labonfoil in local press: April 18, 2011. www.nachrichten.at/oberoesterreich/innviertel/art70,602498).





- FLYER Success story Labonfoil future lab; The flyer was created together with CATT; <u>http://www.catt.at/index_ENG_HTML.php</u>
- Diffusion of LABONFOIL results through TATAA courses in immuno-qPCR technology.
- LeMonde Newspaper. This paper through its technological supplement talks, mentions and shows an image of Labonfoil. Article titled LABOPUCE: LE DIAGNOSTIC AU CHEVET DU PATIENT. April 2013.

Here the reader can fins some examples:

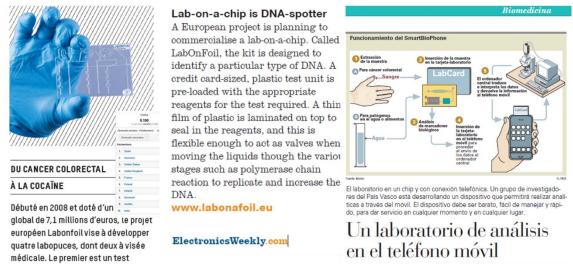


Figure 6. Screen shots of the pieces of news from LeMonde, ElectronicsWeekly and El Pais (this last one is not from the last period).).

3. CONCLUSIONS

We believe that the dissemination of LABONFOIL activities has been very fruitful since we have had the chance of creating new research and exploitation lines.

About 1850 web entries talking about LABONFOIL. 65 articles and conferences and about 85 public news are a result of a strategy to be known within the scientific community, and public media but also among possible investors and companies. In relation with the public media, the creation of the cartoon has been the perfect diffusion vehicle to reach the general public.