1. DELIVERABLE REPORT

2. FRONT PAGE

DELIVERABLE REPORT

Grant Agreement number: 248835

Project acronym: SPEDOC

Project title: Surface Plasmon Early Detection & Treatment Follow-up of Circulating

Heat Shock Proteins & Tumor Cells

Funding Scheme: FP7

Deliverable reported: D7.2, Dissemination and promotion of the project results

Due date: M42

Name, title and organisation of the scientific representative of the project's

coordinator: Dr. Romain Quidant, ICREA Professor, Plasmon nano-optics group. ICFO-

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Name, title and organisation of the scientific representative of the Deliverable reporter:

Rafael Porcar, Business Manager, COSINGO Imagine Optic Spain SL

Date: 22 / 08 / 2013

Signature of reporter and scientific representative of the Coordinator:

3. Objective

The objective of WP7 is to promote the dissemination of information on the project and its scientific results in one hand and to evaluate the potential of its foreground, in terms of IP and commercial potential in the other hand.

In this document we report the tasks corresponding to dissemination part.

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4. Progress towards objectives

We present a summary of the progress of WP7, concretely **task T7.1** related to the maintenance of the website and its actualization, Dissemination to academy (**task T7.2**), industry (**task T7.3**) and general public (**task T7.4**), as part of the deliverable D7.2.

Dissemination of results of SPEDOC foreground has been very successful due to the position of academic partners on the top of their respective research field, who ensured a high quality and quantity of publications and invited talks, and also thanks to alternative and original dissemination supports such as the permanent museum and the divulgation movie.

5. Deviations

There is no deviation to report on this deliverable, except to mention that its delivery date had been moved from M36 to M42 due to the project extension.

6. Detailed explanations

2.1 Scientific/technical publications relating to the foreground of the project

Oral presentations in conferences and workshops year 3 (M25 to M42)

T. Brulé,

SPP6, Ottawa, Canada, May 2013.

Towards a integrated plasmonic analytical platform for early cancer diagnosis,

R. Quidant,

Multidisciplinary Workshop on Enabling technologies for Cancer research, Boston, US, March 2013.

Plasmon Nano-Optics: Taming light on the nanoscale,

R. Quidant,

Ernst Abbe Lecture at the SPIE Optics and Optoelectronics, Prague, Czech Republic, May 2013.

Shining a (bright) light on the very small,

R. Quidant,

NanoSpain 2013, Bilbao, April 2013.

Shining a (bright) light on the very small,

R. Quidant,

SPP6, Ottawa, Canada, May 2013.

Shining a (bright) light on the very small,

R. Quidant,

CLEO 2013, San Jose, US, June 2013.

Towards an integrated plasmonic analytical platform,

R. Quidant,

RICI5, San Sebastian, June 2013.

Detection and characterization of biomolecules,

R.Seigneuric,

Basel, Switzerland, 27th of June 2013, (User-meeting),

Plasmon sensing in biology

Eric Finot,

University of Waterloo, Canada, July 2012

Plasmon nanosensors

Eric Finot.

University of Alberta, Canada, July 2012

Nanotechnology approaches to study the role of melatonin in molecular mechanism of amyloid toxicity and neuroprotection related to Alzheimer's disease

Eric Finot,

Nanotechnology Zing Conference 2012, Mexico, 31 oct 2012

SERS and photothermal spectroscopy for molecular detection in microfluidics

Eric Finot,

SPIE Baltimore April 2013

Applications of Surface Plasmon Polariton In Opto-Electronics & Health Diagnosis,

A. Dereux,

California Institute of Technology, Pasadena (CA), USA, May 8th ,2012.

Eric Finot,

THE 14TH INTERNATIONAL SCANNING PROBE MICROSCOPY CONFERENCE, Toronto, Canada, July 2012.

Amplitude fluctuations in dynamic Surface Enhanced Raman spectroscopy

Eric Finot,

International Conference on Nanoscience + Technology, Paris, 23-27 juillet 2012

Dynamic Nanospectroscopy of multidomain proteins in microfluidics

Thibault Brulé,

International Conference on Enhanced Spectroscopy, Oct 2012, Porquerolles France

Maerkl's group

2012 59th AVS International Symposium, Tampa, USA.

Maerkl's group

2012 MipTec 2012, Basel, Switzerland.

Maerkl's group

2012 GDR Microfluidique / Micro Nano Systems, Bordeaux, France.

Maerkl's group

2012 Institute of Chemical and Bioengineering, ETHZ, Switzerland.

Maerkl's group

2012 Institute of Biochemistry, ETHZ, Switzerland.

Maerkl's group

2013, Biomax Workshop on Microfabrication/Microfluidics, Lausanne, Switzerland.

Maerkl's group

2013, Frontiers in Nanomedicine and Imaging, Lausanne, Switzerland.

Biosensor basado en resonancias plasmónicas localizadas para la detección precoz del cáncer

C. Lopez,

X Reunión nacional de óptica, 4-7 Septiembre 2012, Zaragoza, Spain.

Bringing a compact LSPR biosensing device to early cancer detection market,

R. Porcar,

3rd International congress on biophotonics, June 19-21 2012, Jena, Germany.

A compact LSPR biosensing device for early cancer detection,

R. Porcar,

XI Conference on optical chemical sensors and biosensors EUROPTRODE, April 1-4 2012, Barcelona, Spain.

Towards an integrated plasmonic platform for early cancer diagnosis,

R. Quidant,

NFO11, San Sebastian, Spain, September 2012

Optical Antennas for enhanced light-matter interaction

R. Quidant,

Workshop on plasmonics, Erlangen, Germany, August 2012

Plasmon Nano-optics: Taming light on the nanoscale for enhanced light-matter interaction R. Quidant,

13èmes Journées de la Matière Condensée, Montpellier, France, August 2012

Bright and hot surface plasmons

R. Quidant,

Molecular Nano and Biophotonics Workshop, Hyères, France, June 2012

Molecular plasmonics and its application to nanochemistry, biosensing and single photon sources

R. Quidant,

E-MRS 2012 Spring Meeting, Strasbourg, France, May 2012

Mode-selective Raman spectroscopy and optical trapping using plasmonic antennas,

O.J.F. Martin,

FUNMOLS Workshop, IBM Zurich Research Laboratory, Rüschlikon, Switzerland, January 16-18, 2012.

Monitoring cell metabolism using plasmon resonance energy transfer (PRET),

O.J.F. Martin,

META'12, 3rd Int. Conf. on Metamaterials, Photonic Crystals and plasmonics, Paris, France, April 19-22, 2012, 44 (2012).

On the usage of Fano resonances for sensing,

O.J.F. Martin,

META'12, 3rd Int. Conf. on Metamaterials, Photonic Crystals and plasmonics, Paris, France, April 19-22, 2012, 102 (2012).

Antennas, flowers and bridges: Plasmonic nanostructures to control light at the nanoscale, O.J.F. Martin,

MicroNanoFabrication Annual Review Meeting, EPFL, Lausanne, Switzerland, May 8, 2012.

Byosinthesis of gold nanoparticles in human cells,

O.J.F. Martin,

Int. Conf. on Nanophotonics 2012, Beijing China, May 27-30, 2012, 34 (2012).

Fano resonances in plasmonic systems,

O.J.F. Martin,

short course at the METAIN school on metamaterials, Tata Institute of Sciences and Technology, Hyderabad, India, June 26 – July 1, 2012.

Plasmonic trapping: Controlling nanoparticles at the nanoscale,

O.J.F. Martin.

Perspectives in nanophotonics, Tata Institute of Sciences and Technology, Hyderabad, India, July 2-3, 2012.

Fano resonant plasmonic systems: Functioning principles and applications,

O.J.F. Martin,

TaCoNa Photonics, Bad Honnef, Germany, October 24-26, 2012.

Fano resonant plasmonic systems: Functioning principles and applications for sensing,

O.J.F. Martin,

Int. Workshop on Nanophotonics, Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, December 3-7, 2012.

Tunable Fano resonances in modified dipole antennas,

A. Lovera.

Gordon Research Conference on Light-Matter Interaction at the Nanoscale, Waterville, U.S.A., June 10-15, 2012.

year 2 (M13 to 24)

Controlling and utilizing optical forces at the nanoscale with plasmonic antennas

Andrea Lovera and Olivier J. F. Martin

Nanophotonics and Metrology Laboratory, Swiss Federal Institute of Technology Lausanne (EPFL), 1015 Lausanne, Switzerland

SPIE 2011, 21-25 August, San Diego, CA, USA.

Combined Plasmonic Trapping and Surface-Enhanced Raman Spectroscopy Integrated into Microfluidics

A. Lovera, G. Suarez, O.J.F. Martin

Nanophotonics & Metrology Laboratory, EPFL, 1015-CH, Lausanne, Switzerland

SJ. Maerkl

Laboratory of Biological Network Characterization, EPFL, 1015-CH, Lausanne, Switzerland The 5th international conference on Surface Plasmon Photonics (SPP5), May 15-20, 2011, BEXCO, Busan, South Korea

Optical trapping at the ultimate nanoscale in the near-field of plasmonic antennas

O.J.F. Martin

CLEO 2011, Conference on Lasers and Electro-Optics, Baltimore, USA, May 1-6, 2011.

Optical trapping in plasmonic nanostructures

O.J.F. Martin

Plamons 2011, Pabellón Argentina, Córdoba, Argentina, May 7, 2011.

Integration of plasmonic trapping in microfluidics for sensing applications

O.J.F. Martin

World of Photonics Congress 2011, Munich, Germany, May 23-25, 2011.

Optical forces in plasmonic nanostructures: new functionalities for nanophotonic circuits

O.J.F. Martin

Integrated Photonics Research Conference, Silicon and Nano Photonics (IPR), Toronto, Canada, June 12-16, 2011

Optical forces in plasmonic metamaterials

O.J.F. Martin

International Conference on Materials for Advanced Technologies, Singapore, June 26 – July 1, 2011.

Controlling light at the nanoscale with optical antennas

O.J.F. Martin

A*STAR Metamaterials Workshop, Singapore, July 1, 2011.

Plasmonics: Introduction and applications

O.J.F. Martin

Tutorial at the 8th Int. Symp. on Modern Optics and Its Applications, Bandung, Indonesia, July 4-7, 2011.

Controlling light and optical forces at the nanoscale using plasmonic antennas

O.J.F. Martin

8th Int. Symp. on Modern Optics and Its Applications, Bandung, Indonesia, July 4-7, 2011.

Biosensing based on plasmon resonance energy transfer

O.J.F. Martin

SPIE 2011 Optics and Photonics, San Diego, USA, August 21-25, 2011.

Engineering the optical response of hybrid plasmonic systems: Fano resonances and applications for sensing

O.J.F. Martin

SPIE 2011 Optics and Photonics, San Diego, USA, August 21-25, 2011.

Controlling and utilizing optical forces at the nanoscale with plasmonic antennas

O.J.F. Martin, A. Lovera

SPIE 2011 Optics and Photonics, San Diego, USA, August 21-25, 2011.

Sensing reactive oxygen species in stressed micro-organisms using plasmon resonant energy transfer

O.J.F. Martin

Int. Conf. on nanoplasmonic sensors in bio- and materials science, plasmon-enhanced spectroscopies and plasmon-enhanced microscopies, Göteborg, Sweden, September 19-22, 2011.

Fano resonances in plasmonic systems

O.J.F. Martin

Advanced DPG Physics School on Nanoantennas and Hybrid Quantum Systems, Bad Honnef, Germany, September 25-30, 2011.

Controlling light at the nanoscale: Advances in plasmonics and optical forces

O.J.F. Martin

University of Yamanashi Int. Symp. on Global Research in Advanced Photonics and Energy (GRAPE, UYIS 2011), Kofu, Japan, December 5, 2011.

Combined plasmonic trapping and Raman spectroscopy for nanoscale sensing

O.J.F. Martin

Int. Photonics Conference 2011, Tainan, Taiwan, December 7-8, 2011.

Optical antennas and their applications to optical trapping and sensing

R. Quidant

GDR Ondes, Nice, France, October 2011

Towards an integrated analytical platform for early cancer diagnosis

R. Quidant

CLP Day ICFO, October 2011

Optical antennas and their application to optical trapping and sensing

R. Quidant

International workshop on optical antenna and hybrid quantum systems, Bad Honnef, Germany, September 2011

Towards an integrated plasmonic analytical platform for early cancer detection

R. Quidant

International workshop on plasmonic sensing and spectroscopy, Chalmers, Sweden, September 2011

Towards a deterministic control of Surface Plasmons

R. Quidant

International workshop on nanoplasmonics for Energy and Environement, Sanxenxo, Spain, June 2011

Deterministic control of SPP fields

R. Quidant

SPP5, Busan, Korea, May 2011

When optofluidics meets plasmonics

R. Quidant

EOS/CLEO 2011, Munich, Germany, May 2011

year 1 (M1 to M12)

Carmen Garrido

Vth International Symposium onheat shock proteins in Biology and Medicine (Boston)
November 2010

Selective protein sensor based on Surface Plasmon Resonance and Surface Enhanced Raman Spectroscopy

Eric Finot

Nanomedecine 2010, Beijing- China

October 2010

Plasmon nano-optics: towards novel nanotools for biomedicine

Romain Quidant

Passion for Knowledge, Donostia, Spain

September 2010

The numerical modelling of optical nanostructures

O.J.F. Martin

11th Int. Conf. Near-field Optics and Related Techniques (Beijing, China)

August 29- September 2, 2010

Optical trapping in the near-field of plasmonic nanostructures

O.J.F. Martin

11th Int. Conf. Near-field Optics and Related Techniques (Beijing, China)

August 29- September 2, 2010

Carmen Garrido

Apoptosis Symposium in Galway

August 2010

Nano-biophotonics

Romain Quidant

Integrated Photonics Research, Silicon and Nano Photonics (IPR), Monterey, California, USA July 2010

Application de la SPR en microfluidique : vers la détection de protéines de stress en cancérologie

Renaud Seigneuric

GIS Ingenieries et Méthodes Innovantes pour la Santé, Besançon-France

June 2010

Controlling light at the nanoscale with different types of plasmonic antennas

O.J.F. Martin

2nd Int. Workshop on Ultrafast Nanooptics, Bad Dürkheim, Germany

June 27-30, 2010

Integration of reproducible assay in microfluidics for Surface Enhanced Raman Scattering based sensors

Eric Finot

VCIAN 2010, Santorin-Greece

June 2010

Controlling light at the nanoscale with plasmonic antennas: Applications for sensing and trapping

O.J.F. Martin

The International Conference on Nanophotonics 2010, Tsukuba, Japan

May 30-June 3, 2010

Modelling plasmonic antennas and related metallic nanostructures

O.J.F. Martin

18th Int. Workshop on Optical Waveguide Theory and Numerical Modelling, Cambridge, United Kingdom

April 9-10, 2010

Optical sensing and trapping with plasmonic antennas

O.J.F. Martin

Functionalized plasmonic nanostructures for biosensing Ascona, Switzerland

April 18-23, 2010

Plasmonic nano-antennas and their utilization to control light at the nanoscale

O.J.F. Martin

Int. Workshop on Photonic Nanomaterials, PhoNa 2010, Jena, Germany

March 24-25 2010

Applications des micro et nanotechnologies au domaine biomédical : la Microfluidique

Laurent Markey

Grand-Est, Journée Régionale du Réseau des Mécaniciens, DIJON-France

January 2010

Posters presentations in conferences and workshops

year 3 (M25 to M42)

Microfluidic biosensor based on localized surface plasmon resonances for early cancer detection,

C. Lopez, R. Porcar,

5th IBEC symposium on bioengineering and nanomedicine, June 11 2012, Barcelona, Spain.

Microfluidic biosensor exploiting localized surface plasmon resonances for early cancer detection,

C. Lopez, R. Porcar,

III International workshop on analytical miniaturization and nanotechnologies, June 11-12 2012, Barcelona, Spain.

Integrated Lab-on-a-Chip Platforms For The Early Detection Of Circulating Heat Shock Proteins & Cancerous Cells,

Srdjan Acimovic, Maria-Alejandra Ortega, Mathieu Juan, Johann Berthelot, Mark P. Kreuzer, Romain Quidant,

Biosensors 2012, May 15-18 2012, Cancun, Mexico.

Fluctuations in dynamic Surface-Enhanced Raman Spectroscopy of proteins, NFO12,

T. Brulé,

San Sebastian, Sept. 2012

Synthesis of Nanoflowers for SERS,

H. Yockell,

Conference Journées Nationales Mat. Cond, Aug. 2012, Montpellier

Synthesis of Nanoflowers for SERS,

H. Yockell,

7th Int. Conference on Surfaces, Sept 2012

year 2 (M13 to 24)

Parallel plasmonic trapping and detection in a microfluidic environment

Lovera and O.J.F. Martin

Nanophotonics & Metrology Laboratory –École Polytechnique Fédérale de Lausanne Lab-on-a-Chip World Congress, 29th and 30th September 2011 in South San Francisco, CA, USA.

A localized surface plasmon sensor for early cancer detection

Felix Rohde, Srdjan Acimovic, María Alejandra Ortega, Rafael Porcar-Guezenec ImagineNano, Bilbao, April 2011

A localized surface plasmon sensor for early cancer detection

Felix Rohde, Srdjan Acimovic, María Alejandra Ortega, Rafael Porcar-Guezenec Molecular Plasmonics, Jena, May 2011

A localized surface plasmon sensor for early cancer detection

Felix Rohde, Srdjan Acimovic, María Alejandra Ortega, Rafael Porcar-Guezenec EOSOF, Munich, May 2011

A localized surface plasmon sensor for early cancer detection

Felix Rohde, Srdjan Acimovic, María Alejandra Ortega, Rafael Porcar-Guezenec BioPhotonics, Parma, June 2011

year 1 (M1 to M12)

Trapping and detection of molecules and proteins using plasmonic antennas

Andrea Lovera, Guillaume Suarez, O.J.F. Martin

Photonics Day 2010, November 2010

Détection par SPR couplée à l'ellipsométrie en condition microfluidique de protéines HSP pour la cancérologie

A.Ollagnier

JMC12, Troyes-France, August 2010

Press release:

On April 2010 (M4) the project launched its first press release which was published both on international media. We acknowledged 35 publications during the first month. Some samples are:

- http://www.nanowerk.com/news/newsid=16031.php
- http://www.alphagalileo.org/ViewItem.aspx?ItemId=74222&CultureCode=en
- http://www.isegurosdesalud.com/noticias-salud/diagnostico-precoz-del-cancer-id-7.htm
- http://www.upc.edu/saladepremsa/al-dia/mes-noticies/icfo-is-doing-research-todevelop-a-device-for?set language=en

 http://noticias.iberestudios.com/la-politecnica-de-catalunya-colabora-en-la-deteccionprecoz-del-cancer/

http://www.icrea.cat/Web/ScientificStaff/Quidant-Romain-362



Press release preview (two pages

This way of communication has been maintained along the project duration:

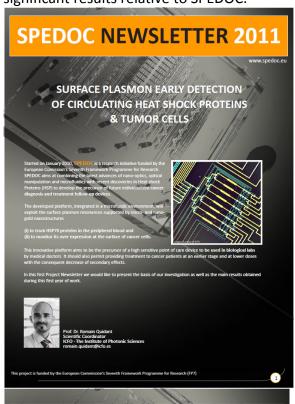


Press release by EPFL, November 2, 2012

2.2 Industry

Newsletters:

Following the strategy established initially, newsletters have been redacted during the `project on a yearly basis. In such communications of two pages in average, were presented the partners of the consortium, main objectives of the research project and the most significant results relative to SPEDOC.











First SPEDOC newsletter



www.spedoc.e

SURFACE PLASMON EARLY DETECTION OF CIRCULATING HEAT SHOCK PROTEINS & TUMOR CELLS

Context and Objectives

more in productivity and life lost than any other illness, secording to the American Cancer. Society report presented at the 2019 World Cancer Congress. Although the risk of lying from cancer has been decreasing control of the cont

cancer, 14970 (Heast Shock Protein 70) is over-expressed at the surface of control ceils and the persplaner about Mineralizer, 14970 is an article of control ceils and the persplaner about Mineralizer, 14970 is an article of the control ceils of the control ceils, if may also be possible to detect ceils of the control ceils, if may also be possible to detect ceils of the control ceils, if may also be possible to detect ceils of the control ceils of the ceils o

Independently, latest advances in nanotechnologies have led to new ultrasensitive sensing schemes able to detect low concentration of specific target molecules. Among the most promising approaches, metallic annotroutures, supporting the so-called surface plasmons resonances, combine (i) a high sensitivity to tiny changes of their surrounding refractive index as induced by the binding of molecules with (ii) intense optical fields suitable for enhanced Raman scattering with (ii) intense optical fields suitable for enhanced Raman scattering with (ii) intense optical fields suitable for enhanced Raman scattering

sensing pilatrom based on surface pilatrons (SP) for early diagnosis, treatment monitoring on follow-up of carcos at the level of processor, restancts institutes. By using the letter advances of surface plasmon anno-potencies, we investigate different configurations of compact and ultra-ensititive sensors able to detect HSP70 proteins both in the perspheral blood and at the nurface of cells of a mice model, using resonance perturbation, scattering imaging and surface finance flamma Cattering (ESD), respectively. The developed sensors will be implemented in an advanced microfloxicis colp to enable sensors will be implemented in an advanced microfloxicis colp to enable sensible developed and processing and processing of the color sensors will be implemented in an advanced microfloxicis colp to enable parallel developed microfloxicis.

The three main objectives of the project read:

by using ultra-specific detection schemes (coupling highly specific receptors with state of the art plasmonic platforms) able to monitor the concentration of over-expressed biomarkers both circulating serious and accumulated at tumour cells membrane. This would facilitate cancer detection in an earlier developmental stage for a more efficient population pre-screening and follow-up.

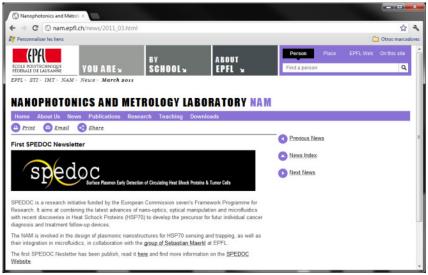
 Objective2: Increasing the detection throughput: The combination of microfluidics and plasmonic nanosensors will facilitate the implementation into a clinical setting due to faster and parallel assays with fewer steps and lesser sample

 Objective3: Integration of optical transduction and plasmonic tweezers into a compact platform able to operate in a biology or oncology laboratory setting. Such device should be understood as a precursor of a future portable device enabling point of care (POC) diagnostics in a madical environment.



Second SPEDOC newsletter

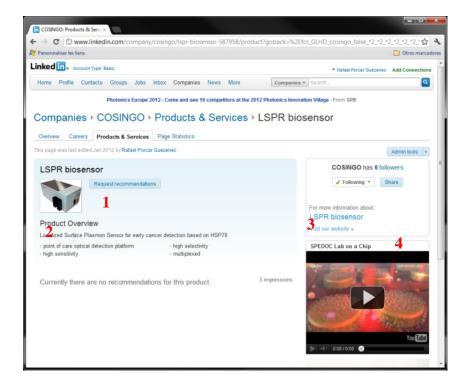
These newsletters have been relayed in the websites of the partners as well as by press release, and professional netwoks such as Linkedin (Link to product webpage: <u>click here</u>)



EFFL website



COSINGO website



Linkedin company webpage

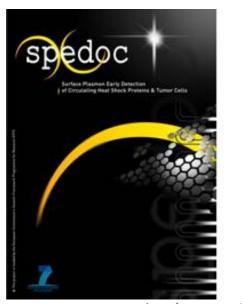
- 1. Picture of the product
- 2. Product general specifications
- 3. Link to spedoc.eu website
- 4. Link to Youtube spedoc movie

2.3 General public

Flyers and brochures:

A flyer have been redacted to disseminate the Project. This flyer was printed during M6 and distributed through all partners to be used in events, talks and any other relevant events in which the audience gathered shall be interested in the Project. About 50 copies were sent to Mr. John Magan at the European Commission.

The design is simple but eye-catching, and contains general information on the Project aim as well as the contact details of the Project Coordinator and the website. Acknowledgement of the funding by the European Commission is done both on the front and back page.





Flyer (cover and back page)

Museum:

ICFO created a showroom in the floor plant of its building, named ICFOseum. This space is dedicated to promote the developments performed at ICFO with its collaborative partners in the framework of research projects.

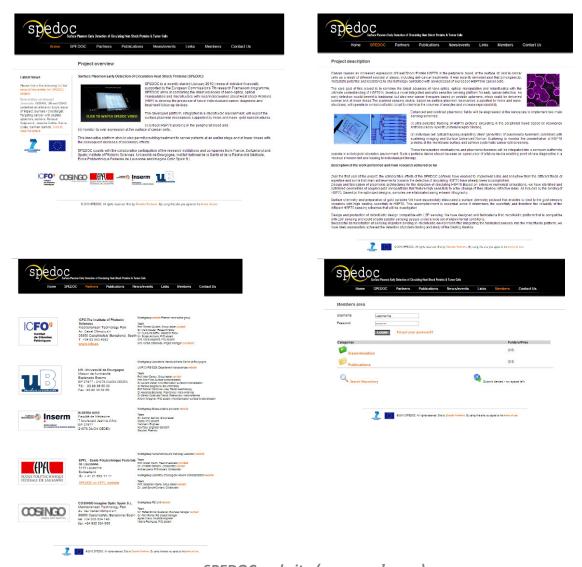
SPEDOC has been awarded with a corner showing the microfluidic chip, together with the projection of the promotional movie.



Picture of ICFOseum

Websites:

The reason of having a project website is to build a platform both for project partners as well as for people interested in the project. For this reason the project website features a public and a private part (member's area). The extension of the website is .eu in accordance to EC recommendation. The website also includes the funding notice sentence for the EC as well as the EC and FP7 logos linked to the EC websites.



SPEDOC website (www.spedoc.eu)

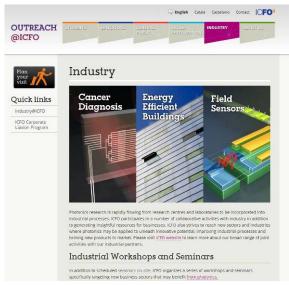
Additionally, ICFO website has been updated to increase dissemination and visibility of Research performed by the institution in collaboration with academy and industry (http://outreach.icfo.eu/). An important part is dedicated to SPEDOC project:



Picture of SPEDOC lab-on-a-chip on Home page of ICFO Outreach website



Detailed presentation of SPEDOC project on ICFO outreach specific website



Introduction of SPEDOC project and cancer diagnosis as one of the axis of ICFO collaboration with Industry

In the framework of the dissemination to general public, SPEDOC project and the Optical Detection Platform prototype have been presented to the Spanish Secretary of State for Research, Ms Carmen Vela, On 5 November 2012, at ICFO (link to the news)

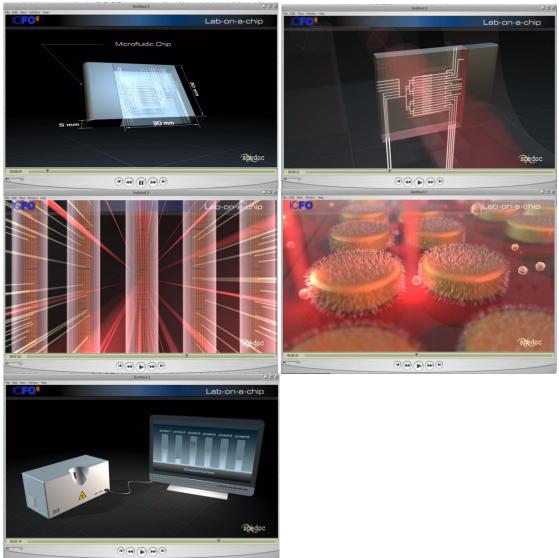


Up: Romain Quidant, SPEDOC coordinator, Carmen Vela, Spanish Secretary of State for Research and Lluis Torner, Director of ICFO around the Optical Detection Platform, Down left: discovering the lab-on-a-chip, heart of the Detection Platform

An interview has been given to the divulgation website http://www.diariomedico.com/ by Carol Lopez in the framework of the Reunion Nacional de Optica, following her oral presentation of the Optical Detection Platform for early cancer detection (publication pending). The divulgation publication is addressed to healthcare professionals and medical doctors, being distributed everyday in more than 3000 hospitals and clinics in Spain and mailed monthly to more than 12000 centers.

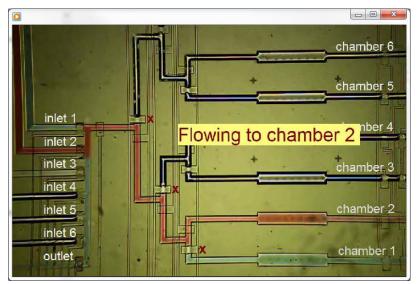
Several movies have been created during the project.

First, a video aiming at describing the project to a broad audience. The video is available to be included on the website and used in conferences or any other dissemination activities. Below are attached some screenshots of the video.



screenshots of SPEDOC divulgation movie

A dissemination movie presenting the protocol of the microfluidic chip and user-defined protocols for sensing experiments has been edited and already used in the framework of dissemination activities:



Screenshot from COSINGO movie of SPEDOC microfluidic chip used in multiplexed mode.