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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

PERSONAL PROFILE. (1978). Independent researcher interested in the field of **micro bioengineering and lab-on-a-chip technologies**. Ikerbasque Research Professor since 2012, Principal Investigator of the BIOMICS-microfluidics Research team at the University of the Basque Country since 2014, Young Member of Jakiunde, the Academy of Science and Arts of the Basque Country since 2016. Director of the Microfluidics & BIOMICS Cluster UPV/EHU since 2019.

TRAYECTORY. Lourdes Basabe-Desmonts studied chemistry at the Universidad Autónoma de Madrid until 2002. Then, she moved to the University of Twente in The Netherlands, where she completed her PhD in 2006 under the supervision of Dr. Crego Calama and Prof. David Reinhoudt at the Supramolecular Chemistry Group within the MESA+ Institute for Nanotechnology. In 2006 she joined the Biomedical Diagnostics Institute in Dublin, Ireland, where in 2009 she became Team Leader in Microfluidics for Platelet Biology. In 2012, she was awarded an Ikerbasque Research Professorship and she moved to CICmicroGUNE in the Basque Country, Spain. In 2014, Lourdes joined the BIOMICS research group at the University of the Basque Country, led by Prof. Martinez de Pancorbo, where she established her own independent research team: BIOMICS-microfluidics, focused on the development of lab-on-a-chip technologies. In June 2015 she co-funded the Microfluidics Cluster UPV/EHU with Dr. Fernando Benito-Lopez's group. And in 2019 she promoted the creation of the Microfluidics and Biomics (M&B) Cluster UPV/EHU, Lourdes Basabe is the director of the M&B Cluster UPV/EHU which is financially supported by the UPV/EHU. **CARRER BREAKS:** 2010, maternity leave, 6 months; 2014 maternity leave, 6 months.

MICROFLUIDICS & BIOMICS CLUSTER UPV/EHU. Strategic alliance between three teams of the University of the Basque Country, comprised of a multidisciplinary team of 15 people with consolidated expertise in genetics, chemistry, materials, microfluidics analytical systems, cell biology, nutrition, medicine and molecular biology. Focused on applied and translational research: through the combination of microfluidics, nanotechnology, sensors and actuators, nucleic acid analysis and cell biology, we develop integrated microsystems with applications in biomedical diagnostics, forensic and environmental analysis, chemistry, sport science, biology and medicine.

TRACK INDICATORS. Over 30 papers and international conferences, 7 patents, PI of 5 active projects funded by EU, or the Basque or Spanish Governments. ID funding over 1.7 M for last 3 years. Recipient of several awards including commercialization awards and the UK & Ireland L'ORÉAL for Women in Science award.

**Current professional situation**

Employing entity: Universidad del País Vasco **Type of entity:** University

Department: Zoología y Biología Celular Animal, Centro de Investigación Lucio Lascaray

Professional category: Research Professor

Start date: 18/06/2014

Type of contract: Permanent employment contract

Dedication regime: Full time

Primary (UNESCO code): 230100 - Analytical chemistry; 339900 - Other Technological specialities

Performed tasks: I am Principal Investigator of the BIOMICS-microfluidics team, Director of the Microfluidics Cluster UPV/EHU, and leader of the Microfluidics and Biomics Cluster. We are a multidisciplinary team comprised by chemists, biologists and engineers, in close collaboration with sport and environmental scientists, medical doctors, and industry. We are focused on applied and translational research. Through the combination of microfluidics, sensors and actuators we develop integrated microsystems with applications in biomedical diagnostics, environmental analysis, chemistry, sport science, biology and medicine. We develop of micro- and nanotechnologies for Lab-on-a-Chip devices for two main fields of application: 1) Point-of-care diagnostic platforms: Integration of biosensors in microfluidic platforms for disposable point-of-care diagnostic tests; 2) Medicine in a chip: Integrated microsystems technology for innovative biology, from single cell to tissue research. The BIOMICS-microfluidics team is part of BIOMICS Research Group (PI: Marian Martínez de Pancorbo) and of the Microfluidics Cluster UPV/EHU.

Identify key words: Analytic chemistry; Biosensors; Fluid dynamics; Engineering; Materials for mems/nems (microelectromechanical systems /nanoelectromechanical systems)



Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Magnetism and Microhydrodynamics - from guided transport to delivery (MAMI)
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** European Union
Degree of contribution: Scientific coordinator
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Funding entity or bodies: Comision Europea H2020 **Type of entity:** Public Research Body
Type of participation: Principal investigator
Name of the programme: H2020-MSCA-ITN-ETN-2017
Code according to the funding entity: H2020-MSCA-ITN-ETN-766007
Start-End date: 01/05/2018 - 30/04/2022 **Duration:** 4 years
Total amount: 3.757.056,48 € **Sub-project amount:** 495.525 €
Percentage as grant: 100
Dedication regime: Part time
Applicant's contribution: Lourdes Basabe Desmonts will co-supervised the PhD thesis of two early state researchers of the this International training Network.
- 2** **Name of the project:** PLATAFORMA MICROFLUIDICA DE CRIBADO DE ALTO RENDIMIENTO PARA ESTUDIOS ADHERENTES
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Lourdes Basabe Desmonts; Fernando Benito López
Nº of researchers: 5
Funding entity or bodies: Ministerio de economía, industria y competitividad (MICINN) **Type of entity:** State agency
Type of participation: Co-ordinator
Start-End date: 01/01/2017 - 31/12/2019
Total amount: 80.000 €
Applicant's contribution: Investigador principal y coordinador
- 3** **Name of the project:** BIONANOMATERIALES PARA APLICACIONES BIOMEDICAS EN DIAGNÓSTICO Y TERAPIA
Entity where project took place: UPV / EHU
Nº of researchers: 50
Name of the programme: ELKARTEK 2017 (2017)
Code according to the funding entity: ELKARTEK 2017 (KK-2017/00008): BMG17
Start-End date: 01/01/2017 - 31/12/2018
Total amount: 2.211.030 € **Sub-project amount:** 76.761,58 €



Applicant's contribution: Lourdes Basabe-Desmots is the Principal Investigator of one WP leading activities on the Development of Microfluidic Devices for this project

4 Name of the project: PREVENCIÓN, DIAGNÓSTICO, INVESTIGACIÓN Y NUEVAS LINEAS TERAPÉUTICAS PARA ENFERMEDADES RARAS EN EL MARCO DE LA CAPV

Entity where project took place: UPV / EHU

Nº of researchers: 50

Name of the programme: ELKARTEK (2017)

Code according to the funding entity: ELKARTEK 2017 (KK-2017/00084): BG17

Start-End date: 01/01/2017 - 31/12/2018

Sub-project amount: 0 €

Applicant's contribution: Lourdes Basabe-Desmots is part of the research team

5 Name of the project: BIOMICS Research Group

Type of project: Research and development, including transfer

Geographical area: Regional

Degree of contribution: Scientific coordinator

Entity where project took place: Universidad del País Vasco

Type of entity: University

City of entity: Vitoria-Gasteiz, Basque Country, Spain

Name principal investigator (PI, Co-PI....): Marian Martinez de Pancorbo

Nº of researchers: 7

Type of participation: Team member

Name of the programme: IKERTALDE-2016. Grupos de investigación sistema universitario vasco

Code according to the funding entity: IT998-16

Start-End date: 01/01/2016 - 31/12/2018

Duration: 3 years

Sub-project amount: 38.000 €

Dedication regime: Part time

Applicant's contribution: Lourdes Basabe es el IP del sub grupo BIOMICS microfluidics Research Group, dedicado al desarrollo de nuevas microtecnologías analíticas.

6 Name of the project: INvitro Dagnostics for CANcer TESTing (INDICATE): Desarrollo de un biosensor económico, sensible y rápido para detectar mutaciones en sangre asociadas a medicina personalizada

Type of project: Research and development, including transfer

Geographical area: National

Degree of contribution: Scientific coordinator

Entity where project took place: Universidad del País Vasco

Type of entity: University

Nº of researchers: 15

Funding entity or bodies:

Consejería de Salud del Gobierno Vasco

Type of entity: State agency

Type of participation: Principal investigator

Name of the programme: Estrategia de especialización inteligente RIS3 _ Área Biociencias-Salud

Code according to the funding entity: RIS3_ 2016222044

Start-End date: 01/01/2016 - 30/11/2018

Participating entity/entities: ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES; Asociacion Instituto BIODONOSTIA; Asociacion Instituto de Investigacion Sanitaria BIOCRUCES; Basque center for Macromolecular Design and Engineering, POLYMAT Fundazioa; Universidad del País Vasco

Total amount: 561.253 €

Sub-project amount: 109.220,91 €

Dedication regime: Part time

Applicant's contribution: Lourdes Basabe-Desmots is the Principal Investigator leading activities on the Development of Microfluidic Devices for this project.

7 Name of the project: Molecular diagnostics through DNA modification and interfacial engineering (DNASURF)

Type of project: Research and development, including transfer

Degree of contribution: Scientific coordinator

Entity where project took place: Several host Institutions

Type of entity: Universities and Industry

Funding entity or bodies:

Comision Europea, H2020

Type of entity: Public Research Body

Type of participation: Principal investigator

Name of the programme: H2020-MSCA-RISE-2017

Code according to the funding entity: H2020-MSCA-RISE-778001

Start-End date: 01/05/2018 - 30/04/2018

Duration: 4 years

Total amount: 499.500 €

Sub-project amount: 175.500 €

Dedication regime: Part time

8 Name of the project: NAPES: Next Generation Analytical Platforms for Environmental Sensing

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Entity where project took place: European Partnership led by Dublin City University (Dublin, Ireland)

Funding entity or bodies:

European Union's Seventh Framework Programme for research, technological development and demonstration

Type of entity: Public Research Body

City funding entity: Bruselas

Type of participation: Team member

Name of the programme: FP7

Code according to the funding entity: 604241

Start-End date: 01/12/2013 - 31/05/2017

Duration: 3 years - 6 months

Participating entity/entities: Aquila Bioscience; Dublin City University, Ireland; Eindhoven University of Technology, The Netherlands; IK4-Ikerlan; Macromolecules and Microsystems in Biology and Medicine, Institut Curie (MMBM), France; TE Laboratories Ltd, Ireland; Universidad del País Vasco; University of Milan, Italy; Williams Industrial Services

Total amount: 3.300.000 €

Sub-project amount: 568.636 €

Percentage as grant: 70

Dedication regime: Part time

Applicant's contribution: Lourdes Basabe participa como parte del equipo de trabajo desde Diciembre 2015

9 Name of the project: INVESTIGACIÓN ESTRATÉGICA Y DESARROLLO TECNOLÓGICO EN NANOMEDICINA: APLICACIÓN A CULTIVO CELULAR, DIAGNÓSTICO Y TERAPIA DE ENFERMEDADES INFECCIOSAS Y CÁNCER

Entity where project took place: Project leader: CICbiomaGUNE (San Sebastian, Spain)

City of entity: Vitoria-Gasteiz, Basque Country, Spain

Type of participation: Principal investigator

Name of the programme: ELKARTEK 2015. Elkartek 2015. Programa de apoyo a la investigación colaborativa en áreas estratégicas

Code according to the funding entity: KK-2015/00088

Start-End date: 01/01/2015 - 31/12/2016

Duration: 2 years

Participating entity/entities: BIODONOSTIA; CIC biomaGUNE; IK4 CEIT; IK4 CIDETEC; Ik4 GAIKER; TECNALIA; Universidad del País Vasco; VICOMTech

**Total amount:** 1.652.675 €**Sub-project amount:** 69.407 €**Dedication regime:** Part time

Applicant's contribution: Lourdes Basabe Desmonts lidera la actividad: "Desarrollo y estudio de componentes fundamentales de dispositivos Microfluídicos" dentro del subproyecto "ENSAYOS ANALÍTICOS BASADOS EN TRATAMIENTO ENZIMÁTICO DE NANOPARTÍCULAS DETECTADAS POR ESPECTROSCOPÍA DE UV-VIS Y DE FLUORESCENCIA COMBINADA CON LA ELECTROQUÍMICA" liderado por Valery Pavlov en CIC biomaGUNE

10 Name of the project: Blood-based cancer detection: Development of an economical, sensitive and rapid paper-based device to detect cell free nucleic acids

Entity where project took place: Project leader: BIODONOSTIA, Health Research Institute (San Sebastian, Spain)

City of entity: Vitoria-Gasteiz, Basque Country, Spain

Funding entity or bodies:

Instituto de Salud Carlos III

Type of entity: Public Research Body

City funding entity: Majadahonda, Community of Madrid, Spain

Type of participation: Principal investigator

Name of the programme: Proyectos integrados de excelencia

Code according to the funding entity: PIE13/00048

Start-End date: 04/06/2013 - 03/06/2016

Total amount: 605.000 €

Sub-project amount: 42.000 €

Dedication regime: Part time

Applicant's contribution: Colaborador del proyecto. Liderar el desarrollo de la plataforma microfluídica que integrará la secuencia de pasos necesarios para la detección de fragmentos específicos de DNA a partir de muestras de sangre. Presupuesto 42000 Euro

11 Name of the project: Development of integrated microfluidics platforms for advance diagnostics assays

Entity where project took place: Dublin City Univeristy

City of entity: Dublin, Border, Midland and Western, Ireland

Name principal investigator (PI, Co-PI....): Brian MacCraith; Michael Berndt

Funding entity or bodies:

Science Foundation Ireland (SFI) under their Centres for Science, Engineering and Technology (CSET) programme

Type of entity: Innovation and Technology Centres

City funding entity: Dublin, Border, Midland and Western, Ireland

Start-End date: 10/2005 - 10/2015

Applicant's contribution: This is part of the Biomedical Diagnostic Institute (BDI) Project for which I have been working during the last five years. I am focused on the development of integrated microfluidic devices for advanced diagnostics. During my time at BDI I have been leading or involved in a number of different projects across several research programs: 1. Functional Diagnosis in Platelet Biology. 2. Microfluidic Device to Study Shear-Mediated Platelet-Surface Interactions. 3. Fabrication of a Point-of-Care Device for Blood Analysis. 4. Mastitis Diagnostic Chip, pathogen detection. 5. Plasma Enhanced Chemical Vapor Deposition (PECVD) for Surface Engineering and Fabrication of Microdevices. 6. Towards Oriented Protein Transfer for Biosensor Applications.

12 Name of the project: Microtecnologías transversales, integración y escalabilidad de MEMS (MicroSCALE)

Entity where project took place: CIC microGUNE **Type of entity:** R&D Centre

City of entity: Mondragon, Basque Country, Spain

Name principal investigator (PI, Co-PI....): Ainara Rodriguez Gonzalez

Nº of researchers: 76

Funding entity or bodies:

Type of entity: State agency



Gobierno Vasco, dentro de la convocatoria ETORTEK
2013 Grant No. IE13-360

City funding entity: Vitoria -Gasteiz, Spain

Start-End date: 01/01/2013 - 31/12/2014

Total amount: 582,37 €

Applicant's contribution: Lourdes Basabe Desmonts, participa como investigadora

- 13 Name of the project:** Microtecnologías para diagnóstico rápido (MIDIAG)
Entity where project took place: CIC microGUNE **Type of entity:** R&D Centre
City of entity: Mondragon, Basque Country, Spain
Name principal investigator (PI, Co-PI....): Enrique Castaño Carmona
Nº of researchers: 76
Funding entity or bodies:
Gobierno Vasco, convocatoria ETORTEK 2012, Grant **Type of entity:** State agency
No. IE12-328
Code according to the funding entity: Grant No. IE12-328
Start-End date: 01/01/2012 - 01/12/2013
Total amount: 610.203 €
Applicant's contribution: Participante como investigador senior

- 14 Name of the project:** Multi Component Protein Patterning Using a Bench top Molecular Printer to Create Point of Care Platelet Function Tests
Entity where project took place: Tyndall National **Type of entity:** R&D Centre
Institute
City of entity: Cork, Southern and Eastern, Ireland
Name principal investigator (PI, Co-PI....): Lourdes Basabe Desmonts
Nº of researchers: 2
Funding entity or bodies:
National Access Programme, Tyndall National **Type of entity:** R&D Centre
Institute, Ireland
City funding entity: Cork, Southern and Eastern, Ireland
Name of the programme: National Access Programme
Code according to the funding entity: Project 297
Start-End date: 01/09/2010 - 01/06/2012
Total amount: 3.000 €

- 15 Name of the project:** High Throughput screening platform to study the differentiation of adult stem cells
Entity where project took place: University of **Type of entity:** University
California Berkeley (USA) and Dublin City University
(Ireland)
City of entity: Berkeley, USA, United States of America
Name principal investigator (PI, Co-PI....): Lourdes Basabe Desmonts
Funding entity or bodies:
UK commission for UNESCO **Type of entity:** Foundation
City funding entity: Londres, United Kingdom
Start-End date: 01/06/2011 - 06/2012
Total amount: 18 €

- 16 Name of the project:** Fluorescent Self-Assembled Monolayers as New Sensing Materials
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: University of Twente **Type of entity:** University
City of entity: Enschede, Overijssel, Holland
Name principal investigator (PI, Co-PI....): David N. Reinhoudt; Mercedes Crego Calama
Name of the programme: Council for Chemical Sciences of the Netherlands Organization for Scientific Research (CW-NWO), in the Young Chemist programme
Code according to the funding entity: Grant number 70098305
Start-End date: 01/10/2001 - 13/01/2006 **Duration:** 4 years
Relevant results: Two book chapters, and eight publications in international journals with high impact factor, (JACS, Adv.Mater, Angewandte ect..) which to date have been cited more than 200 times
Dedication regime: Full time
Applicant's contribution: During this project, my PhD, I developed a simple and effective approach to sensor discovery and fabrication. This work focused on the fabrication and characterisation of new fluorescent materials suitable for combinatorial fabrication of sensor arrays. After demonstrating the concept, I transferred this technology from the macro- to the microscale both via microcontact printing (μ CP) or via integration into microfluidic channels. The ease of miniaturization of this novel technology may make the generation of a wide variety of simple yet efficient microarrays possible. This pioneering work resulted in two book chapters, and eight publications in international journals with high impact factor, (JACS, Adv.Mater, Angewandte ect..) which to date have been cited more than 200 times
- 17 Name of the project:** Selective extraction of minor actinides from high activity liquid waste by organized matrices. (CALIXPART) (Organic Synthesis)
Entity where project took place: Universidad Autónoma de Madrid **Type of entity:** University
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Javier de Mendoza
Funding entity or bodies:
5th Framework Program, Research and Training in the Field of Nuclear Energy
Start-End date: 06/2000 - 06/2001
- 18 Name of the project:** MICROFABRICATION BOX (infraestructura)
Entity where project took place: Universidad del País Vasco **Type of entity:** University
City of entity: Vitoria - Gasteiz, Basque Country, Spain
Name principal investigator (PI, Co-PI....): Lourdes Basabe Desmonts; Marta Ines Saloña Bordas; Maria de los Angeles Martinez de Pancorbo Gomez
Nº of researchers: 3
Funding entity or bodies:
Universidad del País Vasco UPV/EHU
Type of participation: Co-ordinator
Name of the programme: Infraestructura
Code according to the funding entity: INF 15/32
Start date: 01/12/2015
Total amount: 37.808,1 €
Applicant's contribution: Investigador principal, preparación de la propuesta y gestion de la compra y uso del equipamiento.

19 Name of the project: microTechBioMed
Entity where project took place: Universidad del Pais Vasco UPV/EHU
City of entity: Vitoria-Gasteiz, Basque Country, Spain
Funding entity or bodies:
FUNDACION IKERBASQUE/IKERBASQUE FUNDAZIOA
City funding entity: Spain

Type of participation: Co-ordinator
Start date: 02/06/2014
Total amount: 30.000 €

Results

Industrial and intellectual property

- 1 Title registered industrial property:** DIAGNOSTIC METHODS AND DEVICES
Inventors/authors/obtainers: Wolfgang Parak; Lourdes Basabe Desmonts; Thomas Schafer; Luis Liz Marzan; Charles Lawrie
Entity holder of rights: Fundación Vasca de Innovación e Investigación Sanitarias / B+I+O eusko fundazioa
Nº of application: 15193960.0
Country of inscription: Spain, Basque Country
Date of register: 10/11/2015
- 2 Title registered industrial property:** An aperture array substrate device, a detection system and a method for detecting analytes in a sample
Inventors/authors/obtainers: Lourdes Basabe Desmonts; Stephen O'Driscoll; Antonio J. Ricco; Niamh GILMARTIN; Martin Somers
Entity holder of rights: Dublin City University
Nº of application: WO 2014206968 A1
Country of inscription: Ireland, Border, Midland and Western
Date of register: 24/06/2013
- 3 Title registered industrial property:** Microfluidic device providing degassing driven fluid flow
Inventors/authors/obtainers: Lourdes Basabe Desmonts; Ivan Dimov; Jose Luis García Cordero
Entity holder of rights: Dublin City University
Nº of application: US 20120276641 A1
Country of inscription: Ireland, Border, Midland and Western
Date of register: 30/10/2009
- 4 Title registered industrial property:** Method of Surface Treating Microfluidic Devices
Inventors/authors/obtainers: Lourdes Basabe Desmonts; Asif Riaz; Ivan K Dimov; Luke P. Lee
Entity holder of rights: Dublin City University
Nº of application: WO2010EP58631 20100618
Date of register: 16/06/2009
- 5 Title registered industrial property:** Platelet Analysis
Inventors/authors/obtainers: Lourdes Basabe Desmonts; Sofia Ramstrom; Antonio J. Ricco; Dermot Kenny; Germeade Meade; Sarah O'Neill; Asif Riaz
Entity holder of rights: Dublin City University



Nº of application: WO2009EP63298 20091012

Date of register: 10/10/2008

6 Title registered industrial property: Microfluidic Device for Assessing Object / Test Material Interactions

Inventors/authors/obtainers: Antonio J. Ricco; Brian Lincoln; Nigel Kent; Lourdes Basabe Desmonts; Dermot Kenny; Germeade Meade; Brian Corcoran

Entity holder of rights: Dublin City University

Nº of application: US20090866351 20090205

Date of register: 05/02/2008

7 Title registered industrial property: A method for Biomolecule Immobilisation and Minimisation of Non-Specific Binding on Surfaces for Biomedical Diagnostics

Inventors/authors/obtainers: Ram Prasad Gandhiraman; Vladimir Gubala; Cedric Volcke; Lourdes Basabe Desmonts; Stephen Daniels

Entity holder of rights: Dublin City University

Nº of application: EP09394010.4

Scientific and technological activities

Scientific production

H index: 14

Date of application: 28/05/2018

Publications, scientific and technical documents

- 1** Albert Espona Noguera; Jaione Etxeberria Elezgarai; Laura Saenz del Burgo; Cañibano Hernández; Gurruchaga; Blanco; Gorka Orive; Rosa María Hernandez; Fernando Benito Lopez; Jesus Ciriza; Lourdes Basabe Desmonts; Jose Luis Pedraz. Diabetes Mellitus Reversal Via Implantation of Magnetically Purified Microencapsulated Pseudoislets. International journal of Pharmaceutics. 560, pp. 65 - 77. Elsevier, 2019. ISSN 0378-5173

Type of production: Scientific paper

Corresponding author: Yes

Relevant publication: Yes

- 2** Tugce Akyazi; Alexander Tudor; Dermot Diamond; Lourdes Basabe Desmonts; Larisa Florea; Fernando Benito Lopez. Driving Flows in Microfluidic Paper-Based Analytical Devices with a Cholinium Based Poly Ionic Liquid Hydrogel. Sensors and Actuators B. 261, pp. 372 - 378. 2018.

Type of production: Scientific paper

Format: Journal

- 3** Tugce Akyazi; Nerea Gil Gonzalez; Lourdes Basabe Desmonts; Enrique Castano; Maica orant Minana; Fernando Benito Lopez. Manipulation of fluid flow direction in microfluidic paper-based analytical devices with an ionogel negative passive pump. SENSORS AND ACTUATORS B-CHEMICAL. 247, pp. 114 - 123. ELSEVIER SCIENCE SA, PO BOX 564, 1001 LAUSANNE, SWITZERLAND, 2017.

Type of production: Scientific paper

Format: Journal

Corresponding author: No

Impact source: ISI

Category: Analytical Chemistry

Impact index in year of publication: 5.401

Journal in the top 25%: Yes

Position of publication: 6

No. of journals in the cat.: 76

- 4** Cyrille Hamon; Malou Henriksen-Lacey; Andrea La Porta; Melania Rosique; Judith Langer; Leonardo Scarabelli; Ana Belen Serrano Montes; Guillermo Gonzalez-Rubio; Marian M. de Pancorbo; Luis M. Liz-Marzan; Lourdes Basabe-Desmonts. Tunable Nanoparticle and Cell Assembly Using Combined Self-Powered Microfluidics and Microcontact Printing. *Advanced Functional Materials*. 26, pp. 8053 - 8061. Wiley, 08/09/2016.
DOI: 10.1002/adfm.201602225
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 5** Janire Saez; Lourdes Basabe Desmonts; Fernando Benito López. Low Cost Origami Fabrication of 3D Self-aligned Hybrid Microfluidic Structure. *Microfluidics and Nanofluidics*. 20 - 116, Springer, 02/08/2016.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 6** Bincy Jose; Peter McCluskey; Niamh Gilmartin; Dermot Kenny; Antonio J. Ricco; Nigel Kent; Lourdes Basabe Desmonts. Self-Powered Microfluidic Device for Rapid Assay of Antiplatelet Drugs. *Langmuir*. 32, pp. 2820 - 2828. ACS, 25/02/2016.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 7** Maria Tijero; Ruth Diez Ahedo; Fernando Benito Lopez; Lourdes Basabe Desmonts; Vanessa Castro Lopez; Ana Valero Valero. Biomolecule storage on non-modified thermoplastic microfluidic chip by ink-jet printing of ionogels. *Biomicrofluidics*. 9, pp. 044124. AIP Scitation, 26/08/2015.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Relevant results: M. Tijero^{1,2}, R. Díez-Ahedo^{1,3}, F. Benito-Lopez^{1,4,5}, L. Basabe-Desmonts^{1,6,7}, V. Castro-López¹ and A. Valero¹ +
- 8** Hamon, Cyrille; Novikov, Sergey; Scarabelli, Leonardo; Basabe-Desmonts, Lourdes; Liz-Marzan, Luis M. Hierarchical Self-Assembly of Gold Nanoparticles into Patterned Plasmonic Nanostructures. *ACS NANO*. 8 - 10, pp. 10694 - 10703. AMER CHEMICAL SOC, 01/10/2014. ISSN 1936-0851, ISSN 1936-086X
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 12.881 **Journal in the top 25%:** Yes
Position of publication: 10 **No. of journals in the cat.:** 259
Impact source: ISI **Category:** Science Edition - NANOSCIENCE & NANOTECHNOLOGY
Impact index in year of publication: 12.881 **Journal in the top 25%:** Yes
Position of publication: 5 **No. of journals in the cat.:** 79
Impact source: ISI **Category:** Science Edition - CHEMISTRY, PHYSICAL
Impact index in year of publication: 12.881 **Journal in the top 25%:** Yes
Position of publication: 8 **No. of journals in the cat.:** 139
Impact source: ISI **Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Impact index in year of publication: 12.881 **Journal in the top 25%:** Yes
Position of publication: 9 **No. of journals in the cat.:** 157
Source of citations: WOS **Citations:** 3

- 9** Lopez-Alonso, Ana; Jose, Bincy; Somers, Martin; Egan, Karl; Foley, David P.; Ricco, Antonio J.; Ramstrom, Sofia; Basabe-Desmonts, Lourdes; Kenny, Dermot. Individual Platelet Adhesion Assay: Measuring Platelet Function and Antiplatelet Therapies in Whole Blood via Digital Quantification of Cell Adhesion. ANALYTICAL CHEMISTRY. 85 - 13, pp. 6497 - 6504. AMER CHEMICAL SOC, 02/07/2013. ISSN 0003-2700, ISSN 1520-6882
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL
Impact index in year of publication: 5.825 **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 76
Source of citations: WOS **Citations:** 2
- 10** Lucitt, Margaret B.; O'Brien, Sinead; Cowman, Jonathan; Meade, Gerardene; Basabe-Desmonts, Lourdes; Somers, Martin; Kent, Nigel; Ricco, Antonio J.; Kenny, Dermot. Assaying the efficacy of dual-antiplatelet therapy: use of a controlled-shear-rate microfluidic device with a well-defined collagen surface to track dynamic platelet adhesion. ANALYTICAL AND BIOANALYTICAL CHEMISTRY. 405 - 14, pp. 4823 - 4834. SPRINGER HEIDELBERG, 01/05/2013. ISSN 1618-2642
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL
Impact index in year of publication: 3.578 **Journal in the top 25%:** Yes
Position of publication: 11 **No. of journals in the cat.:** 76
Impact source: ISI **Category:** Science Edition - BIOCHEMICAL RESEARCH METHODS
Impact index in year of publication: 3.578 **Journal in the top 25%:** No
Position of publication: 21 **No. of journals in the cat.:** 78
Source of citations: WOS **Citations:** 3
- 11** Woolley, R.; Roy, S.; Prendergast, U.; Panzera, A.; Basabe-Desmonts, L.; Kenny, D.; McDonagh, C. From particle to platelet: Optimization of a stable, high brightness fluorescent nanoparticle based cell detection platform. NANOMEDICINE-NANOTECHNOLOGY BIOLOGY AND MEDICINE. 9 - 4, pp. 540 - 549. ELSEVIER SCIENCE BV, 01/05/2013. ISSN 1549-9634
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - MEDICINE, RESEARCH & EXPERIMENTAL
Impact index in year of publication: 5.978 **Journal in the top 25%:** Yes
Position of publication: 12 **No. of journals in the cat.:** 124
Impact source: ISI **Category:** Science Edition - NANOSCIENCE & NANOTECHNOLOGY
Impact index in year of publication: 5.978 **Journal in the top 25%:** Yes
Position of publication: 15 **No. of journals in the cat.:** 73
Source of citations: WOS **Citations:** 4
- 12** A. Riaz; R.P. Gandhiraman; I.K. Dimov; L. Basabe-Desmonts; J. Ducree; S. Daniels; A.J. Ricco; L.P. Lee. Reactive deposition of nano-films in deep polymeric microcavities. Lab on a Chip - Miniaturisation for Chemistry and Biology. 12 - 22, pp. 4877 - 4883. 2012. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84867550573&partnerID=40&md5=629e595a58ca754b0e7a967ae35229a7>>.
Type of production: Scientific paper **Format:** Journal

- 13** D. Hill; B. McDonnell; S. Hearty; L. Basabe-Desmonts; R. Blue; M. Trnavsky; C. McAtamney; R. O'Kennedy; B.D. MacCraith. Novel disposable biochip platform employing supercritical angle fluorescence for enhanced fluorescence collection. *Biomedical Microdevices*. 13 - 4, pp. 759 - 767. 2011. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-80053909996&partnerID=40&md5=28a8f31819737557dd3c3c204f5e70b8>>.
Type of production: Scientific paper **Format:** Journal
- 14** N.J. Kent; S. O'Brien; L. Basabe-Desmonts; G.R. Meade; B.D. MacCraith; B.G. Corcoran; D. Kenny; A.J. Ricco. Shear-mediated platelet adhesion analysis in less than 100 microL of blood: Toward a POC platelet diagnostic. *IEEE Transactions on Biomedical Engineering*. 58 - 3 PART 2, pp. 826 - 830. 2011. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-79952015516&partnerID=40&md5=c71fee89c11159f2735d420b9f240d86>>.
Type of production: Scientific paper **Format:** Journal
- 15** I.K. Dimov; L. Basabe-Desmonts; J.L. Garcia-Cordero; B.M. Ross; A.J. Ricco; L.P. Lee. Stand-alone self-powered integrated microfluidic blood analysis system (SIMBAS). *Lab on a Chip - Miniaturisation for Chemistry and Biology*. 11 - 5, pp. 845 - 850. 2011. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-79952275655&partnerID=40&md5=6511905e85557b5240b83db5c2e3be73>>.
Type of production: Scientific paper **Format:** Journal
- 16** A. Lopez Alonso; D. Kenny; Lourdes Basabe Desmonts. Interfacial Platelet Cytometry, a Novel Platform Technology for Platelet Function Research and Diagnostics. *Clinical Lab. Intern.* on-line. 20/08/2010.
Type of production: Scientific paper **Format:** Scientific and technical document or report
- 17** R.P. Gandhiraman; C. Volcke; V. Gubala; C. Doyle; L. Basabe-Desmonts; C. Dotzler; M.F. Toney; M. Iacono; R.I. Nooney; S. Daniels; B. James; D.E. Williams. High efficiency amine functionalization of cycloolefin polymer surfaces for biodiagnostics. *Journal of Materials Chemistry*. 20 - 20, pp. 4116 - 4127. 2010. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-77952375144&partnerID=40&md5=31009b3ee18cb15e35d7d13d00a81d4e>>.
Type of production: Scientific paper **Format:** Journal
- 18** B. Lincoln; A.J. Ricco; N.J. Kent; L. Basabe-Desmonts; L.P. Lee; B.D. MacCraith; D. Kenny; G. Meade. Integrated system investigating shear-mediated platelet interactions with von Willebrand factor using microliters of whole blood. *Analytical Biochemistry*. 405 - 2, pp. 174 - 183. 2010. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-77955589400&partnerID=40&md5=ebd9f377707e0e8ee07cc53ee867d265>>.
Type of production: Scientific paper **Format:** Journal
- 19** J.L. Garcia-Cordero; L. Basabe-Desmonts; J. Ducree; A.J. Ricco. Liquid recirculation in microfluidic channels by the interplay of capillary and centrifugal forces. *Microfluidics and Nanofluidics*. 9 - 4-5, pp. 695 - 703. 2010. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-77957597674&partnerID=40&md5=b5c9f373076b34f5fdbab906786e70a>>.
Type of production: Scientific paper **Format:** Journal
- 20** N.J. Kent; L. Basabe-Desmonts; G. Meade; B.D. MacCraith; B.G. Corcoran; D. Kenny; A.J. Ricco. Microfluidic device to study arterial shear-mediated platelet-surface interactions in whole blood: Reduced sample volumes and well-characterised protein surfaces. *Biomedical Microdevices*. 12 - 6, pp. 987 - 1000. 2010. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-78049306018&partnerID=40&md5=37143ecda617220809091a554ff45c78>>.
Type of production: Scientific paper **Format:** Journal
- 21** L. Basabe-Desmonts; G. Meade; D. Kenny. New trends in bioanalytical microdevices to assess platelet function. *Expert Review of Molecular Diagnostics*. 10 - 7, pp. 869 - 874. 2010. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-79952033187&partnerID=40&md5=06cc3b07ac21b0cb717dd7992e03ce29>>.
Type of production: Scientific paper **Format:** Journal

- 22** C. Volcke; R.P. Gandhiraman; L. Basabe-Desmonts; M. Iacono; V. Gubala; F. Cecchet; A.A. Cafolla; D.E. Williams. Protein pattern transfer for biosensor applications. *Biosensors and Bioelectronics*. 25 - 6, pp. 1295 - 1300. 2010. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-73449091798&partnerID=40&md5=49bd1a275890b4c6027bc379b6122d34>>.
Type of production: Scientific paper **Format:** Journal
- 23** L. Basabe-Desmonts; S. Ramstrom; G. Meade; S. O'Neill; A. Riaz; L.P. Lee; A.J. Ricco; D. Kenny. Single-step separation of platelets from whole blood coupled with digital quantification by interfacial platelet cytometry (iPC). *Langmuir*. 26 - 18, pp. 14700 - 14706. 2010. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-77956584898&partnerID=40&md5=67a299c3a88694acde7bfaf0019aa27e>>.
Type of production: Scientific paper **Format:** Journal
- 24** L. Basabe-Desmonts; C.-C. Wu; K.O. Van Der Werf; M. Peter; M. Bennink; C. Otto; A.H. Velders; D.N. Reinhoudt; V. Subramaniam; M. Crego-Calama. Fabrication and visualization of metal ion patterns on glass by dip pen nanolithography. *ChemPhysChem*. 9 - 12, pp. 1680 - 1687. 2008. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-51249118997&partnerID=40&md5=62b3ea51c6448f1871c957fd834f42bb>>.
Type of production: Scientific paper **Format:** Journal
- 25** L. Basabe-Desmonts; F. Benito-López; H.J.G.E. Gardeniers; R. Duwel; A. Van Den Berg; D.N. Reinhoudt; M. Crego-Calama. Fluorescent sensor array in a microfluidic chip. *Analytical and Bioanalytical Chemistry*. 390 - 1, pp. 307 - 315. 2008. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-37549016034&partnerID=40&md5=85c29d9f58021779bb855ce8fc34d401>>.
Type of production: Scientific paper **Format:** Journal
- 26** L. Basabe-Desmonts; F.D. Van Baan; R.S. Zimmerman; D.N. Reinhoudt; M. Crego-Calama. Cross-reactive sensor array for metal ion sensing based on fluorescent SAMs. *Sensors*. 7 - 9, pp. 1731 - 1746. 2007. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-34948827496&partnerID=40&md5=5c7aac5e60f2d7e1a8d02e4ea40decc9>>.
Type of production: Scientific paper **Format:** Journal
- 27** L. Basabe-Desmonts; D.N. Reinhoudt; M. Crego-Calama. Design of fluorescent materials for chemical sensing. *Chemical Society Reviews*. 36 - 6, pp. 993 - 1017. 2007. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-34249732618&partnerID=40&md5=fbc833319181b00290bd5421731ba7b4>>.
Type of production: Scientific paper **Format:** Journal
- 28** C.C. Wu; L. Basabe-Desmonts; K. van der Werf; C. Otto; A.H. Velders; M. Crego-Calama; D.N. Reinhoudt; V. Subramaniam. Fabrication and visualization of metal ion patterns on sensing fluorescent SAMs with AFFM. *European Cells and Materials*. 14 - SUPPL.3, pp. 45 - 45. 2007. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84860908105&partnerID=40&md5=7eb7f830fa05c1f3f5ae0e93f3164e53>>.
Type of production: Scientific paper **Format:** Journal
- 29** C. Volcke; R.P. Gandhiraman; L. Basabe-Desmonts; A. Riaz; A. Cafolla; B. McCraith. Oriented transfer of proteins for biosensor applications. *European Cells and Materials*. 14 - SUPPL.3, pp. 42 - 42. 2007. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84860908745&partnerID=40&md5=40a73f307eb30713b9fdcf64ae917e52>>.
Type of production: Scientific paper **Format:** Journal
- 30** N. Crivillers; M. Mas-Torrent; S. Perruchas; N. Roques; J. Vidal-Gancedo; J. Veciana; C. Rovira; L. Basabe-Desmonts; B.J. Ravoo; M. Crego-Calama; D.N. Reinhoudt. Self-assembled monolayers of a multifunctional organic radical. *Angewandte Chemie - International Edition*. 46 - 13, pp. 2215 - 2219. 2007. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-34250893362&partnerID=40&md5=3e35c3f71b5c0eb2fe1a16f24c42d187>>.
Type of production: Scientific paper **Format:** Journal

- 31** L. Basabe-Desmonts; D.N. Reinhoudt; M. Crego-Calama. Combinatorial fabrication of fluorescent patterns with metal ions using soft lithography. *Advanced Materials*. 18 - 8, pp. 1028 - 1032. 2006. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-33646574953&partnerID=40&md5=3ae72dca44dd2980685efecb990f79b8>>.
Type of production: Scientific paper **Format:** Journal
- 32** R. Zimmerman; L. Basabe-Desmonts; F. Van Der Baan; D.N. Reinhoudt; M. Crego-Calama. A combinatorial approach to surface-confined cation sensors in water. *Journal of Materials Chemistry*. 15 - 27-28, pp. 2772 - 2777. 2005. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-22944458189&partnerID=40&md5=3ec23750853d104d0bf8c36c7f47d10d>>.
Type of production: Scientific paper **Format:** Journal
- 33** L. Basabe-Desmonts; J. Beld; R.S. Zimmerman; J. Hernando; P. Mela; M.F. Garc a Paraj  ; N.F. Van Hulst; A. Van Den Berg; D.N. Reinhoudt; M. Crego-Calama. A simple approach to sensor discovery and fabrication on self-assembled monolayers on glass. *Journal of the American Chemical Society*. 126 - 23, pp. 7293 - 7299. 2004. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-2942537817&partnerID=40&md5=be656862dd2c0bbce258edf033900370>>.
Type of production: Scientific paper **Format:** Journal
- 34** Janire Saez; Lourdes Basabe Desmonts; Fernando Benito Lopez. Materiales Funcionales en Dispositivos Microflu dicos como Sensores y Actuadores para Plataformas de An lisis de Aguas Actualidad Anal tica. *Bolet n de la Sociedad Espa ola de Qu mica Anal tica* Janire S  ez, Lourdes Basabe-Desmonts, Fernando Benito-L pez. 63, pp. 32 - 35. 2018.
Type of production: Popular science article **Format:** Journal
Corresponding author: No
- 35** Akyazi T.; Saez J.; Tudor A.; Delaney C.; Francis W.; Diamond D.; Basabe-Desmonts L.; Florea L.; Benito-Lopez F. Applications of Ionic Liquid Materials in Microfluidic Devices. *RSC Smart Materials*. 2018-January, pp. 234 - 271. 2018. ISSN 20460066
DOI: 10.1039/9781788011839-00234
Type of production: Book chapter **Format:** Book
- 36** Lourdes Basabe-Desmonts; David N. Reinhoudt; Mercedes Crego-Calama. Combinatorial Libraries of Fluorescent Monolayers on Glass. pp. 81 - 115. Springer New York, 2009. Available on-line at: <http://dx.doi.org/10.1007/978-0-387-73713-3_4>. ISBN 978-0-387-73712-6
Type of production: Book chapter **Format:** Book
- 37** Combinatorial Methods for Surface Confined Sensor Design and Fabrication. *Chemical Sensors and Biosensors: Frontiers in Optical Sensing: Novel Principles and Techniques*. pp. 169 - 188. Springer, Heidelberg, Germany,
Type of production: Book chapter **Format:** Book
- 38** Lourdes Basabe Desmonts. Fluorescent Self-assembled monolayers as new sensing materials. Fluorescent Self-assembled monolayers as new sensing materials. *Wohrmann Print Service, Zutphen, The Netherlands*, 2006.
Type of production: Scientific book or monograph **Format:** Book
- 39** Tugce Akyazi; Lourdes Basabe Desmonts; FERNANDO Benito Lopez. Review on Microfluidic Paper-based Analytical Devices towards Commercialisation. *Analitica Chimica Acta*. 1001, pp. 1 - 17. 2018.
Type of production: Bibliographic review **Format:** Journal
Corresponding author: No

- 40** Enrique Azuhaje Hualde; Maite Garcia Hernando; Jaione Etxebarria Elezgarai; Marian Martinez de Pancorbo; Fernando Benito Lopez; Lourdes Basabe Desmonts. Microtechnologies for Cell Microenvironment Control and Monitoring. MICROMACHINES. 8 - 6, MDPI AG, ST ALBAN-ANLAGE 66, CH-4052 BASEL, SWITZERLAND, 2017.
Type of production: Bibliographic review **Format:** Journal
Corresponding author: Yes
- 41** Fernando Benito Lopez; Jaione Etxebarria Elezgarai; Maite Garcia Hernando; Lourdes Basabe Desmonts. 3D Printed High Quality Bechtop Microfluidic Devices Integrating Smart Materials as Sensors. Proceedings of the 21th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Micro Total Analysis Systems μ -TAS-2017. pp. 305 - 306. 2017.
Type of production: Proceeding
- 42** Enrique Azuaje Hualde; Gaizka Garai Ibabe; Susana Arroyo; Fernando Benito Lopez; Marian Martinez de Pancorbo; Lourdes Basabe Desmonts. Low-Cost Paper Device for Fast Gender Identification on Crime Scene. Proceedings of the 21th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Micro Total Analysis Systems μ -TAS-2017. pp. 1449 - 1450. 2017.
Type of production: Proceeding
Corresponding author: Yes
- 43** Jaione Etxebarria Elezgarai; Espnoa Noguera Albert; Janire Saez; Alberto Cañibano Hernández; Fernando Benito López; Jesús Ciriza; Laura Saenz del Burgo; Jose Luis Pedraz; Lourdes Basabe Desmonts. Purification of Alginate Encapsulated Cells in a 3D Printed Microfluidic Magnetic Sorting Device. Proceedings of the 21th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Micro Total Analysis Systems μ -TAS-2017,. pp. 1407 - 1408. 2017.
Type of production: Proceeding
Corresponding author: Yes
- 44** Enrique Azuaje Hualde; Marian Martinez de Pancorbo; Fernando Benito Lopez; Lourdes Basabe Desmonts. Topographical and Chemical Patterning of Cell Culture Substrates. Proceedings of the 21th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Micro Total Analysis Systems μ -TAS-2017. pp. 413 - 414. 2017.
Type of production: Proceeding
Corresponding author: Yes
- 45** Tugce Akyazi; Alexander Tudor; Dermot Diamond; Lourdes Basabe Desmonts; Fernando Benito Lopez. Cholinium based poly ionic liquid hydrogel as negative flow passive pump in paper-based analytical devices. Proceedings of the 20th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2016. pp. 11 - 12. 2016.
Type of production: Proceeding
Corresponding author: No
- 46** Judit Langer; Cyrille Hamon; Scarabelli; Ana Belen Montes Serrano; Lourdes Basabe Desmonts; Luis Liz Marzan. Tunable nanoparticle fate and in situ optode fabrication using self-powered microfluidics. Proceedings of the 19th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2015. pp. 1504 - 1506. 2015.
Type of production: Proceedings
Corresponding author: Yes
- 47** Maria Tijero; Fernando Benito Lopez; Ruth Diez Ahedo; Lourdes Basabe Desmonts; Vanesa Castro Lopez. One-step micro array fabrication of UV-photoprintable ionogels for biomolecule immobilization on non modified COP and COC microfluidic chips. Proceedings of the 17th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2013. pp. 131 - 133. 2013.
Type of production: Proceedings

- 48** Lourdes Basabe Desmonts; S. Ramstrom; A. Lopez Alonso; M. Somers; A.J. Ricco; D. Kenny. Disposable Bioanalytical Microdevice for Monitoring the Effect of Anti-platelet Drugs. Proceedings of the 14th International Conference on Miniaturized Systems for Chemistry and Life Sciences. Groningen, The Netherlands. Chemical and Biological Microsystems Society.03/10/2010.
Type of production: Proceeding (peer reviewed) **Format:** Scientific and technical document or report
- 49** A. Riaz; R.P. Gandhiraman; I.K. Dimov; Lourdes Basabe Desmonts; J. Ducrée; S. Daniels; A.J. Ricco; L.P. Lee. Glass like thin film barrier on polymeric microcavities. Proceedings of the 13th International Conference on Miniaturized Systems for Chemistry and Life Sciences. Jeju, Korea. Chemical and Biological Microsystems Society. In Tae Song Kim and Yoon-Sik Lee, 2009.
Type of production: Proceeding (peer reviewed) **Format:** Scientific and technical document or report
- 50** J.L. Garcia Cordero; Lourdes Basabe Desmonts; A.J. Ricco. Liquid Recirculation in Microfluidic Channels by the Interplay of Capillary and Centrifugal Forces. Proceedings of the 15th International Conference on Solid-State Sensors, Actuators&Microsystems (Transducers'09). pp. 1265 - 1268. Khalil Najafi and Martin Schmidt editors, 2009.
Type of production: Proceeding (peer reviewed) **Format:** Scientific and technical document or report
- 51** I.K. Dimov; Lourdes Basabe Desmonts; J.L. García Cordero; J. Ducrée; A.J. Ricco; L.P. Lee. Self-powered integrated microfluidic blood analysis system (SIMBAS). Proceedings of the 13th International Conference on Miniaturized Systems for Chemistry and Life Sciences. Jeju, Korea. Chemical and Biological Microsystems Society.Tae Song Kim and Yoon-Sik Lee editors, 2009.
Type of production: Proceeding (peer reviewed) **Format:** Scientific and technical document or report
Corresponding author: No
- 52** A. Riaz; R.P. Gandhiraman; I.K. Dimov; Lourdes Basabe Desmonts; A.J. Ricco; J. Ducrée; S. Daniels; L.P. Lee. Thin Film Diffusion Barrier Formation in PDMS Microcavities. Proceedings of the 15th International Conference on Solid-state sensors, Actuators&Microsystems (Transducers'09). pp. 1051 - 1054. Khalil Najafi and Martin Schmidt editors, 2009.
Type of production: Proceeding (peer reviewed) **Format:** Scientific and technical document or report
- 53** A.J. Ricco; N.J Kent; B. Lincoln; G.R. Meade; Lourdes Basabe Desmonts; L.P. Lee; B.D. MacCraith; B.G. Corcoran; D. Kenny. Whole-Blood Diagnostic Sensing System Based on Populational Platelet Rolling Behavior. 35 Years of Chemical Sensors - an Honorary Symposium for Professor Jiri Janata's 70th Birthday Celebration. 19 - 6, pp. 73 - 77. ECS Transactions, 2009.
Type of production: Proceeding (peer reviewed) **Format:** Scientific and technical document or report
- 54** B. Lincoln; G. Meade; N. Kent; Lourdes Basabe Desmonts; D. Kenny; A.J. Ricco; L.P. Lee. Analysis of Whole Blood Platelet Translocation on a VWF-coated Microfluidic Flow Chamber. Proceedings of MicroTAS 2008. pp. 453 - 455. 2008.
Type of production: Proceeding (peer reviewed) **Format:** Scientific and technical document or report
- 55** D. Hill; R. Blue; L. Basabe Desmonts; S. Hearty; B. McDonnell; C. McAtamney; T. Ruckstuhl; R. O'Kennedy; B.D. MacCraith. Detection of Clinical Biomarkers using a novel parabolic microchip diagnostic platform. NSTI Nanotech 2008. Technical Proceedings - Microsystems, Photonics, Sensors, Fluidics, Modelling and Simulation. 3, pp. 237 - 240. M. Laudon, B. Romanowicz, 2008.
Type of production: Proceeding (peer reviewed) **Format:** Scientific and technical document or report
- 56** N.J. Kent; G. Meade; L. Basabe Desmonts; B. Lincoln; D. Kenny; A.J. Ricco; B.D. MacCraith; B.G. Corcoran. Development of a Microfluidic Platform and Detection System for Platelet Function Analysis. Proceedings of MicroTAS 2008. pp. 1048 - 1050. 2008.
Type of production: Proceeding (peer reviewed) **Format:** Scientific and technical document or report

- 57** Lourdes Basabe Desmonts; S. Ramstrom; G. Meade; S. O'Neill; A. Riaz; Lorcan Kent; D. Kenny; A.J. Ricco; L.P. Lee. Rapid Separation, Capture and Detection of Platelets from Whole Blood, Near Physiological Conditions. Proceedings of MicroTAS 2008. pp. 817 - 819. 2008.

Type of production: Proceeding (peer reviewed)

Format: Scientific and technical document or report

- 58** Maria Tijero; Iker Ruiz; Inaki Veci; Ana Valero Valero; Jaione Etxebarria Elezgarai; Fernando Benito Lopez; Mustafa Tutar; Lourdes Basabe Desmonts. Self-powered high flow capacity polymeric microfluidics. Proceedings of the 19th International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2015. pp. 1359 - 1361.

Type of production: Proceeding

Corresponding author: Yes

Works submitted to national or international conferences

- 1** **Title of the work:** Adipose Derived Primary Human Mesenchymal Stem Cell Integrin Determination for Designing an Effective Biofunctionalization Strategy

Name of the conference: 2018 CRS Annual Meeting & Exposition

City of event: New York, United States of America

Date of event: 2018

Ainhoa Gonzalez Pujana; Maite Garcia Hernando; Fernando Benito Lopez; Marian Martinez de Pancorbo; Jose Luis Pedraz; Manoli Igartua; Edorta Santos Vizcaino; Lourdes Basabe Desmonts; Rosa Hernandez.

- 2** **Title of the work:** Cell Viability Assay Based on Microcontact Printing

Name of the conference: European organ on a chip conference, EUROoC

Corresponding author: Yes

City of event: Stuttgart, Germany

Date of event: 2018

Organising entity: Chemical and Biological Microsystems Society (CBMS)

Maite Garcia Hernando; Alba Calatayud; Jaione Etxebarria Elezgarai; Fernando Benito Lopez; Lourdes Basabe Desmonts.

- 3** **Title of the work:** Self-powered Microfluidics for Point of Care Analysis

Name of the conference: Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES 2016)

Type of participation: Participatory - invited/keynote talk

Corresponding author: Yes

City of event: Brasov, Romania

Date of event: 29/07/2017

End date: 30/07/2017

- 4** **Title of the work:** When Microfluidics met Smart Materials

Name of the conference: Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES 2016)

City of event: Brasov, Romania

Date of event: 29/07/2017

End date: 30/07/2017

Tugce Akyazi; Janire Saez; Lourdes Basabe Desmonts; Fernando Benito Lopez.

- 5** **Title of the work:** High Resolution Technique for Simultaneous Proteins and Nanoparticles Patterning

Name of the conference: META 2016, 7th International Conference on Metamaterials Photonic Crystals and Plasmonics

Type of participation: Participatory - invited/keynote talk

Corresponding author: Yes

City of event: Malaga, Spain

Date of event: 25/07/2017

End date: 28/07/2017

Lourdes Basabe Desmonts.

6 Title of the work: New Functionalities in Microfluidic Devices with Smart Functional Materials

Name of the conference: Gordon Conference in Microfluidics, Physics and Chemistry

City of event: Barga, Italy

Date of event: 04/06/2017

End date: 09/06/2017

Fernando Benito Lopez; Janire Saez; Lourdes Basabe Desmonts.

7 Title of the work: Origami Fabrication of 3D COP-PSA Hybrid Microfluidic Devices

Name of the conference: NAPES WORKSHOP 2, Sensing our Environment: From Innovative Materials to Autonomous Sensors & Earth Observation

City of event: Dublin, Ireland

Date of event: 27/03/2017

End date: 28/06/2017

Janire Saez; Lourdes Basabe Desmonts; Fernando Benito Lopez.

8 Title of the work: Origami Fabrication of 3D COP-PSA Hybrid Microfluidic Devices

Name of the conference: Lab-on-Chip European Congress, LOACE-2016

City of event: Madrid, Spain

Date of event: 15/03/2016

End date: 16/03/2016

Organising entity: SELECTBIO

Janire Saez; Lourdes Basabe Desmonts; Fernando Benito Lopez.

9 Title of the work: Self-powered High Flow Capacity Polymeric Microfluidics

Name of the conference: 19th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Micro Total Analysis Systems μ -TAS-2015

Corresponding author: Yes

City of event: Gyeongju, Korea,

Date of event: 25/10/2015

End date: 29/10/2015

Organising entity: Chemical and Biological Microsystems Society

Iker Ruiz; Maria Tijero; Ana Valero; Jaione Etxebarria; Javier Berganzo; Fernando Benito Lopez; Lourdes Basabe Desmonts. "Self-powered High Flow Capacity Polymeric Microfluidics".

10 Title of the work: Tunable Nanoparticle Fate And In-Situ Optode Fabrication Using Self-Powered Microfluidics

Name of the conference: 19th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Micro Total Analysis Systems μ -TAS-2015

Corresponding author: Yes

City of event: Gyeongju, Korea,

Date of event: 25/10/2015

End date: 29/10/2015

Organising entity: Chemical and Biological Microsystems Society



Cyrille Hamon; Judith Langer; Leonardo Scarabelli; Ana Belen Serrano Montes; Lourdes Basabe Desmonts; Luis Liz Marzan. "Tunable Nanoparticle Fate And In-Situ Optode Fabrication Using Self-Powered Microfluidics".

- 11 Title of the work:** One step microarray fabrication of uv-photoprintable ionogels for biomolecule immobilization on non-modified COP and COC microfluidic chips
Name of the conference: International Conference on Miniaturized Systems for Chemistry and Life Sciences, (μ TAS 2013)
City of event: Freiburg, Germany
Date of event: 27/10/2013
End date: 31/10/2013
Organising entity: Chemical and Biological Microsystems Society
Maria Tijero; Fernando Benito López; Ruth Diez Ajedo; Lourdes Basabe Desmonts. "One step microarray fabrication of uv-photoprintable ionogels for biomolecule immobilization on non-modified COP and COC microfluidic chips".
- 12 Title of the work:** A novel platelet assay that measures the effect of clopidogrel in vivo
Name of the conference: 58th Annual meeting of the scientific and standardization committee of the ISTH
City of event: Liverpool, United Kingdom
Date of event: 27/06/2012
End date: 30/06/2012
Ana Lopez Alonso; Lourdes Basabe Desmonts; Bincy Jose; Martin Somers; Dermot Kenny.
- 13 Title of the work:** A Novel Platelet Function Assay Reliably Detects the Effect of P2Y₁₂ Inhibitors in vivo
Name of the conference: 13th UK Platelet Group Meeting
City of event: Cardiff, United Kingdom
Date of event: 08/09/2011
End date: 09/09/2011
Dermot Kenny; Ana Lopez Alonso; Lourdes Basabe Desmonts; Sofia Ramstrom.
- 14 Title of the work:** Rapid Platelet Adhesion, a Companion Diagnostic
Name of the conference: SFI Science Summit 2010, Mining Minds - A New Decade of Discovery
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - invited/keynote talk
City of event: Athlon, Co. Westmeath, Ireland
Date of event: 15/11/2010
End date: 16/11/2010
L. Basabe Desmonts.
- 15 Title of the work:** Disposable Bionalytical Microdevice for Monitoring the Effect of Anti-platelet Drugs
Name of the conference: The 14th International Conference on Miniaturized Systems for Chemistry and Life Sciences
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - oral communication
City of event: Groningen, Holland
Date of event: 03/10/2010
End date: 07/10/2010
Organising entity: Chemical and Biological Microsystems Society
L. Basabe Desmonts; S. Ramstrom; A. Lopez Alonso; M. Somers; A.J. Ricco; D. Kenny.



- 16** **Title of the work:** Disposable Bioanalytical Microdevices for Point of Care Diagnostics
Name of the conference: 2nd Annual UNCSR (United National Center for Sensor Research) Symposium
Type of event: Symposium **Geographical area:** European Union
Type of participation: Participatory - invited/keynote talk
City of event: Dublin, Ireland
Date of event: 29/09/2010
End date: 29/09/2010
L. Basabe Desmonts.
- 17** **Title of the work:** Disposable Bioanalytical Microdevice for Monitoring the Effect of Antiplatelet Drugs
Name of the conference: Lab-on-a-Chip European Congress
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - oral communication
City of event: Dublin, Ireland
Date of event: 25/05/2010
End date: 26/05/2010
L. Basabe Desmonts; S. Ramstrom; A. Lopez Alonso; M. Somers; A.J. Ricco; D. Kenny.
- 18** **Title of the work:** Does platelet-platelet contact affect procoagulant activity?
Name of the conference: Single cell conference meeting,
City of event: Dublin, Ireland
Date of event: 25/05/2010
End date: 26/05/2010
Ana Lopez Alonso; Lourdes Basabe Desmonts; Sofia Ramstrom; Dermot Kenny.
- 19** **Title of the work:** Enhancing Biosensor Sensitivity Using Recirculation in Microfluidic Channels by the Interplay of Capillary and Centrifugal Forces
Name of the conference: The Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Inc. (Pittcon Conference & Expo)
Type of participation: 'Participatory - poster
City of event: Pittsburgh, United States of America
Date of event: 28/02/2010
End date: 05/03/2010
J.L. Garcia Cordero; Lourdes Basabe Desmonts; A.J. Ricco; C. Barry; R. O'Kennedy. "Enhancing Biosensor Sensitivity Using Recirculation in Microfluidic Channels by the Interplay of Capillary and Centrifugal Forces". 2010.
- 20** **Title of the work:** Real Time Kinetic Analysis of Platelets Thrombus Formation
Name of the conference: Irish J. of Med. Science, 2010
Type of event: Conference
Type of participation: Participatory - oral communication
Date of event: 2010
M. Lucitt; S. O'Brien; G. Meade; L. Basabe Desmonts; M. Somers; A.J. Ricco; D. Kenny. S289-S290, pp. 179.
- 21** **Title of the work:** Amine functionalisation of biosensor surfaces by plasma polymerization
Name of the conference: 4th International Conference on Surfaces, Coatings and Nanostructured Materials (Nanosmat2009)
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - oral communication
City of event: Rome, Italy



Date of event: 19/10/2009

End date: 22/10/2009

R.P. Gandhiraman; V. Gubala; C. Volcke; R. Nooney; L. Basabe Desmonts; C. Doyle; B. James; S. Daniels; D.E. Williams.

22 Title of the work: Amine functionalisation of cyclo olefin polymers by PECVD

Name of the conference: 215th Electrochemical Society Meeting (ECS)

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: San Francisco, CA, United States of America

Date of event: 24/05/2009

End date: 29/05/2009

R.P. Gandhiraman; V. Gubala; C. Volcke; R. Nooney; L. Basabe Desmonts; C. Doyle; B. James; S. Daniels; D.E. Williams.

23 Title of the work: Generic process for protein patterns transfer onto surfaces for biosensor applications.

Name of the conference: General Scientific Meeting 2009

Type of participation: Participatory - oral communication

City of event: Belgium

Date of event: 01/04/2009

End date: 04/04/2009

Organising entity: Belgian Physical Society and
Belgian Biophysical Society

Type of entity: Associations and Groups

C. Volcke; R.P. Gandhiraman; Lourdes Basabe Desmonts; M. Iacono; V. Gubala; F. Cecchet; A.A. Cafolla; D.E. Williams. "Generic process for protein patterns transfer onto surfaces for biosensor applications."

24 Title of the work: Capture and Assay of Individual Adhering Platelets

Name of the conference: Annual Research Day of the Royal College of Surgeons in Ireland 2009

Type of event: Conference

Geographical area: European Union

Type of participation: Participatory - oral communication

City of event: Dublin, Ireland

Date of event: 2009

S. Ramstrom; L. Basabe Desmonts; A. López Alonso; A.J. Ricco; J. O'Donnell; D. Kenny.

25 Title of the work: Protein Patterned Surfaces for Single Platelet Studies, a Diagnostics Platform.

Name of the conference: International Conference on Trends in Bioanalytical Sciences and Biosensors (ICTBSB-2009)

Type of event: Workshop

Type of participation: Participatory - oral communication

City of event: Dublin, Ireland

Date of event: 2009

End date: 2009

City organizing entity: Dublin, Ireland

Type of contribution: Scientific book or monograph

Lourdes Basabe Desmonts; S. Ramstrom; G. Meade; S. O'Neill; A. Riaz; L. Kent; J. Ducree; D. Kenny; L.P. Lee; A.J. Ricco. "Protein Patterned Surfaces for Single Platelet Studies, a Diagnostics Platform.". En: Book of Abstracts International Conference on Trends in Bioanalytical Sciences and Biosensors. pp. 21 - 22. 2009.

26 Title of the work: An optimization Study on Cyclo Olefin Copolymers Surface Functionalization

Name of the conference: International Conference on Trends in Bioanalytical Sciences and Biosensors (ICTBSB-2009)

Type of participation: 'Participatory - poster

City of event: Dublin, Ireland

Date of event: 2009

End date: 2009

Type of contribution: Scientific book or monograph

C. Volcke; R.P. Gandhiraman; V. Gubala; L. Basabe Desmonts; G. Fonder; R. Nooney; Z. Mekhalif; Atillio A. Cafolla; S. Daniels; D.E. Williams. "An optimization Study on Cyclo Olefin Copolymers Surface Functionalization". En: Book of Abstracts International Conference on Trends in Bioanalytical Sciences and Biosensors. pp. 104 - 106. 2009.

27 Title of the work: Development of a Nucleic Acid Assay for the Detection of Bacteria by Supercritical Angle Fluorescence

Name of the conference: International Conference on Trends in Bioanalytical Sciences and Biosensors (ICTBSB-2009)

Type of participation: 'Participatory - poster

City of event: Dublin, Ireland

Date of event: 2009

End date: 2009

Type of contribution: Scientific book or monograph

E. Clancy; K. Lacey; J. O'Grady; D. Kurzbuch; Lourdes Basabe Desmonts; V. Gubala; T. Barry; M. Maher; T. Smith. "Development of a Nucleic Acid Assay for the Detection of Bacteria by Supercritical Angle Fluorescence". En: Book of Abstracts International Conference on Trends in Bioanalytical Sciences and Biosensors. pp. 95 - 97. 2009.

28 Title of the work: Liquid Recirculation in Microfluidic Channels by the Interplay of Capillary and Centrifugal Forces

Name of the conference: The 15th International Conference on Solid State Sensors, Actuators and Microsystems, Transducers 2009

Type of participation: 'Participatory - poster

City of event: Denver, United States of America

Date of event: 2009

End date: 2009

J.L. Garcia Cordero; Lourdes Basabe Desmonts; A.J. Ricco. "Liquid Recirculation in Microfluidic Channels by the Interplay of Capillary and Centrifugal Forces". 2009.

29 Title of the work: Plasma Surface Functionalisation of Cyclo Olefin Copolymers for Biosensor Applications

Name of the conference: International Conference on Trends in Bioanalytical Sciences and Biosensors (ICTBSB-2009)

Type of participation: Participatory - oral communication

City of event: Dublin, Ireland

Date of event: 2009

End date: 2009

City organizing entity: Dublín, Ireland

Type of contribution: Scientific book or monograph

R.P. Gandhiraman; C. Volcke; V. Gubala; Lourdes Basabe Desmonts; R. Nooney; S. Daniels; D.E. Williams. "Plasma Surface Functionalisation of Cyclo Olefin Copolymers for Biosensor Applications". En: Book of Abstracts International Conference on Trends in Bioanalytical Sciences and Biosensors. pp. 61 - 63. 2009.

30 Title of the work: Thin Film Diffusin Barrier Formation in PDMS Microcavities

Name of the conference: The 15th International Conference on Solid State Sensors, Actuators and Microsystems, Transducers 2009



Type of participation: 'Participatory - poster
City of event: Denver, United States of America
Date of event: 2009
End date: 2009

A. Riaz; R.P. Gandhiraman; I.K. Dimov; Lourdes Basabe Desmonts; A.J. Ricco; J. Ducrée; S. Daniels; L.P. Lee. "Thin Film Diffusion Barrier Formation in PDMS Microcavities". 2009.

31 Title of the work: Stability Studies of Amine Functional Coatings Deposited by PECVD on COP Surfaces for Biosensor Application

Name of the conference: 13th International Conference on Biomedical Engineering

Type of participation: Participatory - oral communication

City of event: Singapore, Malaysia

Date of event: 03/12/2008

End date: 06/12/2008

R.P. Gandhiraman; C. Volcke; V. Gubala; R. Nooney; Lourdes Basabe Desmonts; S. Daniels. "Stability Studies of Amine Functional Coatings Deposited by PECVD on COP Surfaces for Biosensor Application".

32 Title of the work: Stability Studies of Amine Functional Coatings Deposited by PECVD on COP Surfaces for Biosensor Applications

Name of the conference: 13th International Conference on Biomedical Engineering

City of event: Singapore, Malaysia

Date of event: 03/12/2008

End date: 06/12/2008

R.P. Gandhiraman; C. Volcke; V. Gubala; R. Nooney; Lourdes Basabe Desmonts; S. Daniels; D.E. Williams. "Stability Studies of Amine Functional Coatings Deposited by PECVD on COP Surfaces for Biosensor Applications".

33 Title of the work: Analysis of Whole Blood Platelet Translocation on a VWF-coated Microfluidic Flow Chamber

Name of the conference: The Twelfth International Conference on Miniaturized Systems for Chemistry and Life Sciences.

Type of participation: 'Participatory - poster

City of event: San Diego, United States of America

Date of event: 2008

End date: 2008

B. Lincoln; G. Meade; N.J. Kent; Lourdes Basabe Desmont; D. Kenny; A.J. Ricco. "Analysis of Whole Blood Platelet Translocation on a VWF-coated Microfluidic Flow Chamber". En: Proceedings of Micro TAS 2008. pp. 453 - 455. 2008.

34 Title of the work: Detection of Clinical Biomarker Using a Novel Parabolic Microchip Diagnostics Platform

Name of the conference: Europtrode IX: Ninth International Conference on Optical Chemical Sensors and Biosensors

Type of participation: 'Participatory - poster

City of event: Dublin, Ireland

Date of event: 2008

End date: 2008

Type of contribution: Scientific book or monograph

D. Hill; S. Hearty; L. Basabe Desmonts; R. O'Kennedy; B. MacCraith. "Detection of Clinical Biomarker Using a Novel Parabolic Microchip Diagnostics Platform". En: Book of Abstracts 9th European Conference on Optical Chemical Sensors and Biosensors (Europtrode IX). pp. 186 - 186.

- 35** **Title of the work:** Detection of Clinical Biomarkers using a Novel Parabolic Microchip Diagnostic Platform
Name of the conference: NSTI Nanotech. The Nanotechnology Conference and Trade Show.
Type of participation: Participatory - oral communication
City of event: Boston, United States of America
Date of event: 2008
End date: 2008
Type of contribution: Scientific-technical report
D. Hill; S. Hearty; Lourdes Basabe Desmont; R. Blue; C. McAtamney; R. O'Kennedy; B. MacCraith.
"Detection of Clinical Biomarkers using a Novel Parabolic Microchip Diagnostic Platform". En: Technical Proceedings of the 2008 Nanotechnology Conference and Trade Show. 2008.
- 36** **Title of the work:** Development of Hybrid Microfluidic Platform and Detection System for Platelet Function Analysis
Name of the conference: Europtrode IX: Ninth International Conference on Optical Chemical Sensors and Biosensors.
Type of participation: 'Participatory - poster
City of event: Dublin, Ireland
Date of event: 2008
End date: 2008
Type of contribution: Scientific book or monograph
N.J. Kent; G. Meade; Lourdes Basabe Desmont; B. Lincoln; A.J. Ricco; D. Kenny; B.D. MacCraith; B. Corcoran. "Book of Abstracts 9th European Conference on Optical Chemical Sensors and Biosensors (Europtrode IX)". pp. 181 - 181. 2008.
- 37** **Title of the work:** Development of a Microfluidic Platform and Detection System for Platelet Function Analysys
Name of the conference: The Twelfth International Conference on Miniaturized Systems for Chemistry and Life Sciences
Type of participation: 'Participatory - poster
City of event: San Diego, United States of America
Date of event: 2008
End date: 2008
N.J. Kent; G. Meade; Lourdes Basabe Desmont; B. Lincoln; D. Kenny; A.J. Ricco; B.D. MacCraith; B.G. Corcoran. "Development of a Microfluidic Platform and Detection System for Platelet Function Analysys". En: Proceedings of MicroTAS 2008. pp. 1048 - 1050. 2008.
- 38** **Title of the work:** Maltose Detection by Miniaturized Low-Cost Sensing Platform using Supercritical Angle Fluorescence (SAF)
Name of the conference: Europtrode IX: Ninth International Conference on Optical Chemical Sensors and Biosensors
Type of participation: 'Participatory - poster
City of event: Dublin, Ireland
Date of event: 2008
End date: 2008
Type of contribution: Scientific book or monograph
Lourdes Basabe Desmonts; V. Gubala; D. Kurzbuch; A.J. Ricco; L.P. Lee; J.B. Pitner; B.D. MacCraith.
"Maltose Detection by Miniaturized Low-Cost Sensing Platform using Supercritical Angle Fluorescence (SAF)". En: Book of Abstracts 9th European Conference on Optical Chemical Sensors and Biosensors (Europtrode IX). pp. 185 - 185. 2008.



- 39 Title of the work:** Optimised Isolation of Recombinant Antibodies for Biosensors Development
Name of the conference: Europtrode IX: Ninth International Conference on Optical Chemical Sensors and Biosensors.
Type of participation: 'Participatory - poster
City of event: Dublin, Ireland
Date of event: 2008
End date: 2008
Type of contribution: Scientific book or monograph
S. Hearty; B. McDonnell; P. Leonard; V. Ayyar; N. Gilmartin; P.J. Conroy; Lourdes Basabe Desmonts; D. Hill; B.D. MacCraith; R. O'Kennedy. "Optimised Isolation of Recombinant Antibodies for Biosensors Development". En: Book of Abstracts 9th European Conference on Optical Chemical Sensors and Biosensors (Europtrode IX). 2008.
- 40 Title of the work:** Rapid Separation, Capture and Detection of Platelets from Whole Blood, Near Physiological Conditions
Name of the conference: The Twelfth International Conference on Miniaturized Systems for Chemistry and Life Sciences
Type of participation: 'Participatory - poster
City of event: San Diego, United States of America
Date of event: 2008
End date: 2008
Lourdes Basabe Desmonts; S. Ramstrom; G. Meade; S. O'Neill; A. Riaz; L. Kent; D. Kenny; A.J. Ricco; L.P. Lee. "Rapid Separation, Capture and Detection of Platelets from Whole Blood, Near Physiological Conditions". En: Proceedings of MicroTAS 2008. pp. 817 - 819. 2008.
- 41 Title of the work:** Fabrication and visualization of metal ion patterns on sensing fluorescent SAMs with AFFM
Name of the conference: BIOSURF VII - Functional Interfaces for Directing Biological Response
Type of participation: 'Participatory - poster
City of event: Zurich, Switzerland
Date of event: 2007
End date: 2007
Type of contribution: Scientific paper
Wu; Lourdes Basabe Desmonts; K. van der Werf; C. Otto; A.H. Velders; M. Crego Calama; D.N. Reinhoudt; Vinod Subramaniam. "European Cells and Materials". 14 - 3, pp. 45 - 45.
- 42 Title of the work:** Oriented transfer of proteins for biosensor applications
Name of the conference: BIOSURF VII - Functional Interfaces for Directing Biological Response
Type of participation: 'Participatory - poster
City of event: Zurich, Switzerland
Date of event: 2007
End date: 2007
C. Volcke; R. Prasad Ghandiraman; Lourdes Basabe Desmonts; A. Riaz; A.A. Cafolla; B.D. MacCraith. "European Cells and Materials". En: European Cells and Materials. 14 - 3, pp. 45 - 45.
- 43 Title of the work:** First Combinatorial Fabrication of Fluorescent Metallic Patterns by Soft Lithography
Name of the conference: Trends in Nanotechnology Conference (TNT)
Type of participation: 'Participatory - poster
City of event: Oviedo, Spain
Date of event: 2005
End date: 2005
Type of contribution: Scientific book or monograph



Lourdes Basabe Desmonts; D.N. Reinhoudt; M. Crego Calama. En: Book of Abstracts Trends in Nanotechnology Conference (TNT). 2005.

44 Title of the work: Combinatorial Approach to Sensor Discovery and Fabrication Based on Self-Assembled Monolayers

Name of the conference: Annual Meeting of the MESA+ Institute for Nanotechnology

Type of event: Meeting

Type of participation: Participatory - invited/keynote talk

City of event: Enschede, Holland

Date of event: 2004

End date: 2004

Lourdes Basabe Desmonts. "Combinatorial Approach to Sensor Discovery and Fabrication Based on Self-Assembled Monolayers".

45 Title of the work: Fluorescent Self-Assembled Monolayers on Glass Microdevices

Name of the conference: Annual Meeting of the Supramolecular Chemistry Science Division of NWO-CW

Type of event: Meeting

Type of participation: Participatory - invited/keynote talk

City of event: Lunteren, Holland

Date of event: 2004

End date: 2004

Lourdes Basabe Desmonts. "Fluorescent Self-Assembled Monolayers on Glass Microdevices". 2004.

46 Title of the work: Confined Fluorescent Sensitive Surfaces on Glass Made by Microcontact Printing and Integrated into Microchannels Walls

Name of the conference: Europtrode VII, 7th European Conference on Optical Chemical Sensors and Biosensors

Type of participation: Participatory - poster

City of event: Madrid, Spain

Date of event: 2004

End date: 2004

Type of contribution: Scientific book or monograph

Lourdes Basabe Desmonts; D.N. Reinhoudt; M. Crego Calama. "Confined Fluorescent Sensitive Surfaces on Glass Made by Microcontact Printing and Integrated into Microchannels Walls". En: Book of Abstracts 7th European Conference on Optical Chemical Sensors and Biosensors (Europtrode VII). pp. 81 - 81.

47 Title of the work: Detection of Molecular Recognition by Fluorescence on Self-assembled Monolayers on Glass

Name of the conference: Europtrode VII, 7th European Conference on Optical Chemical Sensors and Biosensors

Type of participation: Participatory - oral communication

City of event: Madrid, Spain

Date of event: 2004

End date: 2004

Type of contribution: Scientific book or monograph

R.S. Zimmerman; Lourdes Basabe Desmonts; J. Beld; D. Reinhoudt; M. Crego Calama. "Detection of Molecular Recognition by Fluorescence on Self-assembled Monolayers on Glass". En: Book of Abstracts 7th European Conference on Optical Chemical Sensors and Biosensors (Europtrode VII). pp. 79 - 79. 2004.



- 48** **Title of the work:** Detection of Molecular Recognition by Fluorescence on Self-assembled Monolayers on Glass
Name of the conference: Europtrode VII - 7th European Conference on Optical Chemical Sensors and Biosensors
Type of participation: 'Participatory - poster
City of event: Madrid, Spain
Date of event: 2004
End date: 2004
Type of contribution: Scientific book or monograph
R.S. Zimmerman; Lourdes Basabe Desmonts; J. Beld; D. Reinhoudt; M. Crego Calama. "Detection of Molecular Recognition by Fluorescence on Self-assembled Monolayers on Glass". En: Book of Abstracts 7th European Conference on Optical Chemical Sensors and Biosensors (Europtrode VII). pp. 79 - 79.
- 49** **Title of the work:** Combinatorial Libraries of Fluorescent Self-Assembled Monolayers on Glass for Sensor Fabrication and Surface Patterning
Name of the conference: Annual Meeting of the MESA+ Institute for Nanotechnology
Type of participation: 'Participatory - poster
City of event: Enschede, Holland
Date of event: 2003
End date: 2003
Lourdes Basabe Desmonts; F. van der Baan; Maria Peter.
- 50** **Title of the work:** Towards metal Ion sensing arrays based on Self-Assembled Monolayers on Glass: Combinatorial approach
Name of the conference: Europtrode VI, 6th European Conference on Optical Chemical Sensors and Biosensors
Type of event: Conference
City of event: Manchester, Greater Manchester, United Kingdom
Date of event: 2002
Organising entity: European Conference on Optical Chemical Sensors and Biosensors
City organizing entity: Manchester, United Kingdom
Publication in conference proceedings: Yes
Mercedes Crego Calama; Lourdes Basabe Demonts; David N. Reinhoudt. "Book of Abstracts 6th European Conference on Optical Chemical Sensors and Biosensors (Europtrode VI)".
- 51** **Title of the work:** Combinatorial Approach to Sensor Discovery and Fabrication Based on Self-Assembled Monolayers
Name of the conference: Annual Meeting of the MESA+ Institute for
Type of participation: 'Participatory - poster
City of event: Enschede, Holland
Date of event: 2002
End date: 2002
Lourdes Basabe Desmonts; D.N. Reinhoudt; M. Crego Calama.
- 52** **Title of the work:** Towards metal Ion sensing arrays based on Self-Assembled Monolayers on Glass Combinatorial approach
Name of the conference: Europtrode VI - 6th European Conference on Optical Chemical Sensors and Biosensors
Type of participation: 'Participatory - poster
City of event: Manchester, United Kingdom
Date of event: 2002
End date: 2002



Type of contribution: Scientific book or monograph

Lourdes Basabe Desmonts; D.N. Reinhoudt; M. Crego Calama. "Towards metal Ion sensing arrays based on Self-Assembled Monolayers on Glass Combinatorial approach". En: Book of Abstracts 6th European Conference on Optical Chemical Sensors and Biosensors (Europtrode VI).

53 Title of the work: A novel platelet assay that measures the effect of clopidogrel in vivo

Type of contribution: Scientific paper

Lopez, A.; Kenny, D.; Basabe-Desmonts, L.; Ramstrom, S.; Jose, B.; Somers, M."JOURNAL OF THROMBOSIS AND HAEMOSTASIS". 11, pp. 73 - 73. 01/12/2013. ISSN 1538-7836, ISSN 1538-7933

Other achievements

Prizes, mentions and distinctions

- 1 Description:** Appointed as Member of Jakiunde, the Academy of Sciences, Arts and Letters of the Basque Country
Awarding entity: Jakiunde
City awarding entity: San Sebastian
Conferral date: 20/12/2016
- 2 Description:** Second prize of the INIZIA ArabaCampus University Entrepreneur Contest, for BioDTEK
Awarding entity: BIC ARABA **Type of entity:** Business
City awarding entity: Vitoria-Gasteiz
Conferral date: 30/11/2016
- 3 Description:** Best International Publication, XVII Jornadas de investigacion de la Osi Araba y el Campus Universitario de Álava de la UPV/EHU
Awarding entity: BIOARABA **Type of entity:** Public Research Body
City awarding entity: Vitoria-Gasteiz, Basque Country, Spain
Conferral date: 19/10/2016
- 4 Description:** Appointed as Ikerbasque Research Professor
Awarding entity: FUNDACION IKERBASQUE/IKERBASQUE FUNDAZIOA
City awarding entity: Basque Country, Spain
Conferral date: 12/2011
- 5 Description:** Award for engagement with bussines/industry and licensing at Dublin City University (Ireland)
Awarding entity: Invent, Innovation and Enterprise **Type of entity:** Innovation and Technology Centres
Centre based at Dublin City University
City awarding entity: Dublin, Ireland
Conferral date: 12/2011
- 6 Description:** Commercialisation award for glassy coating technology
Awarding entity: Invent, Innovation and Enterprise **Type of entity:** Innovation and Technology Centres
Centre based at Dublin City University
City awarding entity: Dublin, Ireland
Conferral date: 12/2011



- 7** **Description:** Appointed as UK and Ireland L'Oreal UNESCO For Women in Science Fellow
Awarding entity: UK National Commission for UNESCO
City awarding entity: Londres, United Kingdom
Conferral date: 06/2010
- 8** **Description:** Commercialisation award for microfluidic blood filtering and immunoassay device
Awarding entity: Invent, Innovation and Enterprise **Type of entity:** Innovation and Technology Centres
Centre based at Dublin City University
City awarding entity: Dublin, Ireland
Conferral date: 12/2009
- 9** **Description:** Award for Business Plan Presentation (Second Place), Enterprise Start Programme
Awarding entity: National College of Ireland and **Type of entity:** State agency
Enterprise Ireland
City awarding entity: Dublin, Ireland
Conferral date: 2009
- 10** **Description:** Commercialisation award for a method for biomolecule immobilisation and minimisation of non-specific binding on surfaces for biomedical diagnostics
Awarding entity: Invent, Innovation and Enterprise **Type of entity:** Innovation and Technology Centres
Centre based at Dublin City University
City awarding entity: Dublin, Ireland
Conferral date: 12/2008
- 11** **Description:** Commercialisation award for platelet analysis
Awarding entity: Invent, Innovation and Enterprise **Type of entity:** Innovation and Technology Centres
Centre based at Dublin City University
City awarding entity: Dublin, Ireland
Conferral date: 12/2008
- 12** **Description:** Overall Award for Life Sciences category to the most commercially promising Invention Disclosure in the area of Life Sciences
Awarding entity: Invent, Innovation and Enterprise **Type of entity:** Innovation and Technology Centres
Centre based at Dublin City University
City awarding entity: Dublin, Border, Midland and Western, Ireland
Conferral date: 12/2008
- 13** **Description:** Commercialisation award for microfluidic device for assessing object / test material interactions
Awarding entity: Invent, Innovation and Enterprise **Type of entity:** Innovation and Technology Centres
Centre based at Dublin City University
City awarding entity: Dublin, Ireland
Conferral date: 12/2007