


<b>ACRÓNIMO:</b>	 <b>LOGO:</b>
<b>NOMBRE DEL GRUPO DE INVESTIGACIÓN</b> <b>MICROFLUIDICS CLUSTER UPV/EHU</b>	
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<b>Enlace página web:</b> <a href="https://www.ehu.eus/en/web/microfluidics/home">https://www.ehu.eus/en/web/microfluidics/home</a>	
<b>Área(s) de la ciencia:</b> 3312, 3399, 2301 <b>Chemistry, Bioengineering, Engineering</b> kimika, bioingeniaritza, ingeniaritza	

<b>Palabras Clave:</b>	<b>Microfluidica, Materiales inteligentes, ingeniería de superficies, Lab-on-a-Chip, MicroTAS</b>
<b>Descripción (800 caracteres máximo)</b> <p>The Microfluidics Cluster UPV/EHU is a strategic alliance between two research teams working on Micro- and Nanotechnologies for Lab-on-a-Chip applications at the University of the Basque Country. We focus on applied and translational research on micro- and nanotechnologies. 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.</p> <p>We are a multidisciplinary team comprised by chemists, biologists and engineers, in close collaboration with sport and environmental scientists, medical doctors, and industry.</p> <p>Microfluidics Cluster UPV/EHU, Lab-on-a-Chip erabileretarako Micro- eta Nanoteknologian lan egiten duten Euskal Herriko Unibertsitateko bi taldeen arteko aliantza estrategikoa da. Mikro- eta nanoteknologiaren gaineko ikerkuntza aplikatu eta translazionalean enfokatzeko gara. Mikrofluidika, sentsoak eta eragingailuak konbinatuz, mikrosistema integratuak garatzen ditugu hurrengo helburuekin: diagnostiko biomedikoak, ingurugiro analisia, kimika, kirol zientzia, biologia eta medikuntza. Orohar, talde multidiziplinarra gara, kimikari, biologo eta ingeniariarekin osatuta, eta ingurugiro eta kirol zientzialariekin, medikuekin eta industriarekin elkarlanean aritzen gara.</p>	
<b>Líneas de Investigación (800 caracteres máximo)</b> Research Line 1. Microfluidics. Research Line 2. Smart materials for sensing and actuation. Research Line 3. Surface engineering. Research Line 4. Microsystem integration.	
<ol style="list-style-type: none"> <li>1. Ikerketa-lerroa. Mikrofluidika.</li> <li>2. Ikerketa-lerroa. Material inteligenteak sentso eta eragingailutzat.</li> <li>3. Ikerketa-lerroa. Gainazalen ingeniaritza.</li> <li>4. Ikerketa-lerroa. Mikrosistemen integrazioa.</li> </ol>	

## Equipment

**Device fabrication:** Graphtec, Universal Laser Systems, Hot laminator, Plasma cleaner, XEROX Colorqube wax printer, Fluigent, Spin coater model. SU-8 microfabrication station (Microfabrication box), 3D printer Form 1+

**Characterisation:** pHmeter, Flow meter, Camera, Digital oscilloscope, Kit Optical fiber splicer 41S + Cleaver CT50 (Fujikura), OCA 15EC Drop Shape Analyser (Goniometer), Profilometer: DektakXT® stylus.

**Synthesis:** Rotavapor™ R-100, Glovebox La Petite. Ultrasound bath, 4DCell equipment for adhesion patterns.

**Gailuen fabrikazioa:** Graphtec, Universal Laser Systems, Hot laminator, Plasma cleaner, XEROX Colorqube wax printer, Fluigent, Spin coater model. SU-8 microfabrication station (Microfabrication box), 3D printer Form 1+.

**Karakterizazioa:** pHmeter, Flow meter, Camera, Digital oscilloscope, Kit Optical fiber splicer 41S + Cleaver CT50 (Fujikura), OCA 15EC Drop Shape Analyser (Goniometer), Profilometer: DektakXT® stylus.

**Sintesia:** Rotavapor™ R-100, Glovebox La Petite. Ultrasound bath, 4DCell equipment for adhesion patterns.

Componentes del grupo		Departamento	Centro	Sección
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(añadir tantas filas como componentes del grupo)

**Foto del grupo de investigación** (insertar en la tabla edo mandar por correo electrónico junto a la ficha)