

Part A. Información personal

CV fecha 30/04/2023

First and Family name	Bermejo Barrera, Ana Maria		
Social Security, Passport, ID number		Age	
Researcher numbers	Researcher ID		
	Orcid code	0000 0002 1926 4546	

A.1. Posición actual

Universidad	Universidade de Santiago de Compostela		
Centro	Instituto de Ciencias Forenses Luis Cocheiro		
Dirección, País	Facultad de Medicina. Santiago. España		
Telefono	881812206	E-mail	anamaria.bermejo@usc.es
Posición actual	Catedrática de Toxicología	Desde	2007
Espec. cód. UNESCO	3214		
Palabras clave	Toxicología Forense, Drogas de abuso, cromatografía		

A.2. Education

Licenciado en Medicina	Universidad de Santiago, 1980	1980
Doctora en Medicina	Universidade de Santiago de Compostela	1986

A.3. JCR artículos, h Index, dirección de tesis

Seis sexenios de investigación
Dirección der 19 tesis doctorales
JCR artículos: 131
Indice H 35

Part B. CV RESUMEN (max. 3500 characters, including spaces)

Catedrática de Toxicología en la Universidad de Santiago desde 2007
Secretaria Académica de la Facultad desde 2002 a 2007. Actualmente secretaria del INCIFOR desde 2012-
Responsable del laboratorio de toxicología forense del INCIFOR, encatgado de realizar actividad pericial para la conselleria de Xustiza. Igualmente en el mismo se desarrolla una amplia labor de investigación que queda plasmada en las publicaciones realzadas por el equipo.
He sido investigadora principal de 10 proyectos de investigaci principal de 10 proyectos de investigación y numerosas actividades de transferencia,
Evaluadora de articulos de investigación en numerosas revistas indexadas
Pertenzco a numerosas sociedades científicas.

Part C. Méritos relevantes

C.PUBLICACIONES

Simultaneous determination of new generation antidepressants in plasma by gas- chromatography-mass spectrometry. Elisa Pietracci; Ana Maria Bermejo; Iván Álvarez, Pamela Cabarcos, Walter Balduini and Maria Jesús Tabernero. **Forensic Toxicology** . 31(1):124-132 (2013).

Hygrine and cuscohygrine as possible markers to distinguish coca chewing from cocaine abuse in workplace drug testing. C. Rubio; S. Strano-Rossi; M.J. Tabernero ;L.Anzillotti; M.Chiarotti and A.M. Bermejo . **Forensic Sci. Int.** 227:60-63 (2013)

Application of Dispersive Liquid.Liquid Microextraction for the determination of Phosphatidylethanol in Blood by Liquid chromatography Tandem Mass Spectrometry. Pamela Cabarcos, José Ángel Cocho, Antonio Moreda, Martha Míguez, María Jesús Tabernero, Purificación Fernández, Ana María Bermejo,; **Talanta** 111:189-195 (2013).

Optimization of microwave-assisted extraction of analgesic and anti-inflammatory drugs from human plasma and urine using response surface experimental designs. Purificación Fernández¹, Ana M. Fernández², Ana M. Bermejo¹, Rosa A. Lorenzo^{3,*}, Antonia M. Carro. **J. of Separation Science** 36(8):1446-54 (2013).

Simultaneous determination of cocaine and opiates in dried bloods spots by electrospray ionization tandem mass spectrometry. Angel Antelo Domiguez; José Angel Cocho; María Jesús Tabernero, Ana María bermejo Pilar bermejo-Barrera and Antonio Moreda Piñeiro, **Talanta** 117 :235-241, (2013)

Direct tandem mass spectrometry for the simultaneous assay of opioids, cocaine and metabolites. Antonio Moreda; Pilar Bermejo-Barrera; Mara Otero-Fernández; José A Cocho; María J Tabernero; Ana M Bermejo. **Analytica Chimica Acta**, 784:25-32 (2013)

Screening for exogenous androgen anabolic steroids in human hair by liquid chromatography/orbitrap high resolution mass spectrometry.. Sabina Strano-Rossi, Erika Castrignanò; Luca Anzillotti; Sara Odoardi; Fabio De-Giorgio, PhD; Ana M Bermejo, PhD; Vincenzo L Pascali, PhD. **Analytica Chimica Acta**. **793**: 61-71(2013),

Matrix solid phase dispersion assisted enzymatic hydrolysis as a novel approach for cocaine and opiates isolation from human hair. Antonio Moreda-Pineiro, Ph.D; Martha Míguez-Framil; Pamela Cabarcos; María J Tabernero, PhD; Ana M Bermejo, PhD; Pilar Bermejo-Barrera, PhD. **Journal of Chromatography A** 1316:15-22 (2013).

ANCA Positive vasculitis induced by levamisole-adulterated cocaine and nephritic syndrome: The kidney as an unusual target. Hotensia Álvarez Diaz; Ana Isabel Mariño Gallego; José Francisco Garcia Rodriguez; Inmaculada Gómez Buela and Ana Maria Bermejo Barrera. **American Journal of Case Report**, 14: 557-561 (2013).

Application of hygrtine and cuscohygrine as posible markers to distinuish coca chewing from cocaine abuse on WDT and forensic cases. C. Rubio; S. Strano-Rossi; M.J. Tabernero ;L.Anzillotti; M.Chiarotti and A.M. Bermejo **Forensic Sci. Int** 243: 30-34 (2014)

Prenatal alcohol exposure and its repercussion on newborns. A. Baña; M.J.Tabernero; A.Pérez-Muñizuri; S. López-Suarez; P.Cabarcos; A. Bermejo; J.M. Fraga and M.L. Couce. **Journal of Neonatal-Perinatal Medicine** 7: 47-54 (2014)

An improved method for the determination of <DELTA>9-tetrahydrocannabinol, cannabinol and cannabidiol in hair by liquid chromatography-tandem mass spectrometry. Martha Míguez-Framil, José Ángel Cocho, María Jesús Tabernero, Ana María Bermejo, Antonio Moreda-Piñeiro, Pilar Bermejo-Barrera¹ **Microchemical Journal** 117:7-17 (2014).

Quantification of fatty acid ethyl esters (FAEE) and ethyl glucuronide (EtG) in meconium for detection of alcohol abuse during pregnancy. Correlation study between both biomarkers. Pamela Cabarcos; María Jesús Tabernero; José Luís Otero; Martha Míguez; Ana María Bermejo; Simona Martello; Nadie De Giovanni; Marcello Chiarotti. **Journal of Pharmaceutical and Biomedical Analysis** : 100:74-78 (2014)

Rapid determination of quetiapine in blood by GC/MS. Application to post-mortem cases. Olga López-Guarnido, María Jesús Tabernero, Antonio F. Hernández, Lourdes Rodrigo and Ana M. Bermejo. **Journal of Applied Toxicology** , 34(10):1104-1108 (2014).

Analysis of drugs of abuse in human plasma by dispersive liquid-liquid microextraction and high-performance liquid chromatography. P Fernández; M. Regenjo; A.M.Bermejo; A.M.Fernández; R.A, Lorenzo and A.M. Carro. **Journal of Applied Toxicology**, 35:418-425 (2015)

Alcohol's influence on violent deaths. Alberto Fernández Liste; Maria Jesús Tabernero; Ana María Bermejo.: **International Journal of Forensic Science & Pathology (IJFP)**. 3(4):105-109 (2015).

Determination of direct alcohol markers: a review. P. Cabarcos; I. Alvarez MJ. Tabernero and AM Bermejo. **Analytical and Bioanalytical Chemistry** 407:4907-4925 (2015).

Porous membrane-protected molecularly imprinted polymer micro-solid-phase extraction for analysis of urinary cocaine and its metabolites using liquid chromatography- - tandem mass spectrometry
Antonio Moreda-Pineiro, Ph.D; Juan Sánchez-González; María J Tabernero; Ana M Bermejo; Pilar Bermejo-Barrera. **Analytica Chimica Acta** : 898: 50-59 (2015)

Synthesis and characterization of novel molecularly imprinted 1 polymer – coated 2 Mn-doped ZnS quantum dots for specific fluorescent recognition of cocaine. María Pilar Chantada-Vázquez, Juan Sánchez-González, Elena Peña-Vázquez, María Jesús Tabernero, Ana María Bermejo, Pilar Bermejo-Barrera, Antonio Moreda-Piñeiro. **Biosensors and Bioelectronics** 75:213-221 (2016).

Development of magnetic molecularly imprinted polymers for solid phase extraction of cocaine and metabolites in urine before high performance liquid chromatography – tandem mass spectrometry. Juan Sánchez-González^a, María Jesús Tabernero^b, Ana María Bermejo^b, Pilar Bermejo-Barrera^a, Antonio Moreda-Piñeiro^a. **Talanta**: 147: 641-649 (2016)

A simple and sensitive molecularly imprinted polymer – Mn-doped ZnS quantum dots based fluorescence probe for cocaine and metabolites determination in urine. Chantada-Vázquez, Maria; Sánchez-González, Juan; Peña-Vázquez, Elena; Tabernero, Maria; Bermejo, Ana; Bermejo-Barrera, Pilar; Moreda-Piñeiro, Antonio. **Anal. Chem.** 88: 27-34, (2016).

Solid-phase microextraction and gas chromatography – mass spectrometry methods for residual solvent assessment in seized cocaine and heroin. Pamela Cabarcos; Paloma Herbello Hermelo; Iván Ivarez Freire; Antonio Moreda Piñeiro; María Jesús Tabernero; Ana María Bermejo and Pilar Bermejo Barrera. **Analytical and Bioanalytical Chemistry** 408:6393-6402 (2016)

Cannabinoids assessment in plasma and urine by high performance liquid chromatography – tandem mass spectrometry after molecularly imprinted polymer microsolidphase extraction. Juan Sánchez-González, Rocío Salgueiro Fernández, Pamela Cabarcos, Ana María Bermejo, Pilar Bermejo Barrera, Antonio Moreda-Piñeiro. **Analytical and Bioanalytical Chemistry** : 409:1207-1220, (2017).

Development and application of molecularly imprinted polymer – Mn-doped ZnS quantum dot fluorescent optosensing for cocaine screening in oral fluid and serum. María Pilar Chantada-Vázquez, Carolina de-Becerra-Sánchez, Alba Fernández-del-Río, Juan Sánchez-González, Ana María Bermejo, Pilar Bermejo-Barrera and Antonio Moreda Piñeiro. **Talanta**, 181:232-238, (2018).

Determination of benzodiazepines in pericardial fluid by gas chromatography-mass spectrometry. Iván Álvarez: Pietro Brunetti, Pamela Cabarcos Fernández, Alberto Fernández Liste, María Jesús Tabernero, A. M. Bermejo. **Journal of Pharmaceutical and Biomedical Analysis** : 159: 45-52 (2018)

HPLC-MS/MS combined with membrane protected – molecularly imprinted polymer micro-solid-phase extraction for synthetic cathinones monitoring in urine. Juan Sánchez-González; Sara Odoardi; Ana María Bermejo; Pilar Bermejo-Barrera; Francesco Saverio Romolo; Antonio Moreda-Piñeiro y Sabina Strano-Rossi. **Drug Testing and Analysis**, 11: 33-44 (2019)

NMR spectroscopy for assessing cocaine-functional monomer interactions when preparing molecularly imprinted polymers. Pilar Bermejo-Barrera, A. Bermejo, Angeles Peña-Gallego, Antonio Moreda-Piñeiro, Jesus Sanmartin Matalobos, Juan Sánchez González. **Microchemical Journal**, 147:813-817 (2019)

Genetic susceptibility in pharmacodynamic and pharmacokinetic pathways underlying drug-induced arrhythmia and sudden unexplained deaths. Marina Martínez-Matilla, A. Bermejo, Alejandro Blanco-Verea, Angel Carracedo, Eva Ramos, Francesca Brisighelli, Francisco Lotufo-Neto, Juan Ansedo-Bermejo, Mario Paramo, Mario Hirata, María Brion, Montserrat Santori, Rocío Gil. **Forensic. Science International**, 42: 203-212, (2019)

The probability to detect cocaine, methylecgonine, cinnamoylcocaine, hygrine and cuscohygrine in urine samples of coca leaves chewers after six years. Nelida Rubio, Antonio Moreda-Piñeiro, Iván Álvarez Freire, Bermejo-Barrera Pilar, María-Jesús Tabernero-Duque, A. M. Bermejo. **Microchemical Journal** 151 (2019).

Duration of detection of cocaine and metabolites in hair after discontinuation of abuse. A. Suarez Garcia; I. Álvarez Freire; A.M. Bermejo; P. Cabarcos Fernández and M.J. Tabernero Duque. **Microchemical Journal** : 153 (2020) *Duration of detection of cocaine and metabolites in hair after discontinuation of abuse.* A. Suarez Garcia; I. Álvarez Freire; A.M. Bermejo; P. Cabarcos Fernández and M.J. Tabernero Duque. **Microchemical Journal**: 153:104335 (2020)

Determination of Seven Antidepressants in Pericardial Fluid by Means of Dispersive Liquid-Liquid Microextraction and Gas Chromatography-Mass Spectrometry. P. Cabarcos-Fernández, M.J. Tabernero-Duque, I. Álvarez-Freire and A.M. Bermejo-Barrera. **Journal of Analytical Toxicology**: 00: 1-10 (2021)



Determination of Levetiracetam in plasma. Comparison of Gas-Chromatography-Mass Spectrometry technique and Abbot® Architect system. I. Álvarez Freire; T. Marques Rodrigues; A.M. Bermejo Barrera; P. Cabarcos Fernández and M.J. Tabernero. **Microchemical Journal**:160:105715 (2021)

Quantitative determination of Clozapine in plasma using an environmentally friendly technique. P. Cabarcos-Fernández*, I. Álvarez-Freire, M.J. Tabernero-Duque, A.M. Bermejo-Barrera. **Microchemical Journal**; 180: 107612(2022)

Sexual Assault: Approach to reality in the area of Santiago de Compostela (Galicia-Spain) through a 12-year retrospective study. P. Cabarcos-Fernández; M.J. Tabernero-Duque; I. Álvarez-Freire; A.M. Bermejo-Barrera. **Journal of Analytical Toxicology**. 46: 218-222 (2022)

Isolation and quantification of synthetic cannabinoids in human urine using membrane-assisted solvent extraction followed by liquid chromatography-tandem mass spectrometry. Cristian Suárez-Oubiña, Iván Álvarez-Freire, Pamela Cabarcos, Ana María Bermejo, Pilar Bermejo-Barrera¹, Antonio Moreda-Piñeiro. **Analytical Methods** 15: 333-342 (2023)

"Statistical Analysis of Toxicological Data of Victims of Traffic Accidents in Galicia (Spain). Iván Álvarez Freire, Olga López Guarido; Pamela Cabarcos fernández; Manuel Couce Sanchez; Ana Maria Bermejo Barrera and Maria Jesús Tabernero Duque. **Prevention Science**; 24(4), pp. 765-773 (2023)

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"Ultrasound assisted membrane-assisted solvent extraction as a fast procedure for the simultaneous assessment of some drug-facilitated sexual assaults in urine by liquid chromatography-tandem mass spectrometry" **Journal of Chromatography A**; 1706, 464284 (2023)

Simple method for the determination of thc and thc-cooh in human postmortem blood samples by gas chromatography /mass spectrometry. Ivan Alvarez-Freire, Anxa Valeiras-Fernández, Pamela Cabarcos Fernández, Ana María Bermejo Barrera, María Jesús Tabernero-Duque. **Molecules** : 28(8),3586 (2023)

Synthetic cathinones determination by liquid chromatography- mass spectrometry after ultrasound membrane assisted extraction. Cristian Suárez-Oubiña¹, Pamela Cabarcos², Maria Jesús Tabernero² Pilar Bermejo-Barrera¹, Antonio Moreda-Piñeiro¹, Ana María Bermejo. **Microchemical journal** 191,108869 (2023)

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2. Proyectos de investigación

JUST/2014/ACTION GRANTS. PRIDE - Profiling Relation In Drug trafficking in Europe. European Commission, Directorate-General Justice, Università Cattolica del Sacro Cuore(Rome,Italy),Università de la Sapienza (Roma,Italy),Universidade de Santiago de Compostela, IP in the Universidade de Santiago de Compostela. 01/12/2015-30/11/2017. 133.549,7 €.

JUS/2011/ISEC/DRUGS/AG/3670. Tracking Drug Trafficking (TDT), European Commission, Directorate-General Justice, JUST/2011-2012/ACTION GRANTS. Università Cattolica del Sacro Cuore, Roma (Italy), Universidade de Santiago de Compostela, IP of the Universidade de Santiago de Compostela, 01/01/2012-30/11/2015. 156.034,63 €.

C.5. Cargos académicos

Secretaria académica de la Facultad de Medicina desde 2002 ta 2008
Membro de la comisión de doctorado de la Universidad de Santiago desde 2007 a2010
Secretaria del INCIFOR de la USC desde 2012

C.6.Miembro de sociedades científicas

Sosidrogalcohol (Spain),
AETOX (Spain)

C.7. Conferencias y cursos

He impartido numerosos cursos en diferentes universidades y he sido ponente en numerosas ocasiones en congresos relacionados con la toxicología



CURRICULUM VITAE (maximum 4 pages)