



## Curriculum Vitae

Personal information **Alicia Rodriguez Gascon**

### Work experience

1. Employer: Universidad del País Vasco UPV/EHU
  - Start date: 011993
  - End date:
  - Position: Full Professor
  - Activities: Academic and Research
  - Country: Spain
2. Employer: Sandoz
  - Start date: 011994
  - End date: 121994
  - Position: Postdoctoral researcher
  - Activities: Drug Metabolism and Pharmacokinetics
  - Country: Switzerland

### Education and training

1. Subject: Universidad de Salamanca
  - Start date: 061988
  - End date: 121992
  - Qualification: PhD in Pharmacy
  - Organisation: PhD studies
  - Country: Spain

### Additional information

#### Publications

Gómez\_Aguado I, Rodríguez\_Castejón J, Beraza\_Millor M, Rodríguez\_Gascón A, Del Pozo\_Rodríguez A, Solinís MÁ. mRNA delivery technologies: Toward clinical translation. *Int Rev Cell Mol Biol.* 2022;372:207\_293. doi: 10.1016/bs.ircmb.2022.04.010. Epub 2022 Jul 7. PMID: 36064265. Rodríguez\_Castejón J, Gómez\_Aguado I, Beraza\_Millor M, Solinís MÁ, Del Pozo\_Rodríguez A, Rodríguez\_Gascón A. Galactomannan Decorated Lipid Nanocarrier for Gene Supplementation Therapy in Fabry Disease. *Nanomaterials (Basel).* 2022 Jul 8;12(14):2339. doi: 10.3390/nano12142339. PMID: 35889565; PMCID: PMC9324688. Bilbao\_Meseguer I, Barrasa H, Rodríguez\_Gascón A, Asín\_Prieto E, Maynar J, Sánchez\_Izquierdo JA, Solinís MÁ, Isla A. Optimization of levetiracetam dosing regimen in critically ill patients with augmented renal clearance: a Monte Carlo simulation study. *J Intensive Care.* 2022 Apr 21;10(1):21. doi: 10.1186/s40560\_022\_00611\_w. PMID: 35449037; PMCID: PMC9022299. Valero A, Rodríguez\_Gascón A, Isla A, Barrasa H, Del Barrio\_Tofiño E, Oliver A, Canut A, Solinís MÁ. Pseudomonas aeruginosa Susceptibility in Spain: Antimicrobial Activity and Resistance Suppression Evaluation by PK/PD Analysis. *Pharmaceutics.* 2021 Nov 8;13(11):1899. doi: 10.3390/pharmaceutics13111899. PMID: 34834314; PMCID: PMC8620410. Alonso R, Rodríguez\_Achaerandio A, Aguirre\_QUIñonero A, Artetxe A, Martínez\_Ballesteros I, Rodríguez\_Gascón A, Garaizar J, Canut A. Molecular Epidemiology, Antimicrobial Surveillance, and PK/PD Analysis to Guide the Treatment of Neisseria gonorrhoeae Infections. *Pharmaceutics.* 2021 Oct 15;13(10):1699. doi: 10.3390/pharmaceutics13101699. PMID: 34683991; PMCID: PMC8541456. Bilbao\_Meseguer I, Barrasa H, Asín\_Prieto E, Alarcia\_Lacalle A, Rodríguez\_Gascón A, Maynar J, Sánchez\_Izquierdo JA, Balziskueta G, Griffith MS, Quilez\_Trasobares N, Solinís MÁ, Isla A. Population Pharmacokinetics of Levetiracetam and Dosing Evaluation in Critically Ill Patients with Normal or Augmented Renal Function. *Pharmaceutics.* 2021 Oct 15;13(10):1690. doi: 10.3390/pharmaceutics13101690. PMID: 34683983; PMCID: PMC8540413. Gómez\_Aguado I, Rodríguez\_Castejón J, Beraza\_Millor M, Vicente\_Pascual M, Rodríguez\_Gascón A, Garelli S, Battaglia L, Del Pozo\_Rodríguez A, Solinís MÁ. mRNA Based Nanomedicinal Products to Address Corneal Inflammation by Interleukin\_10 Supplementation. *Pharmaceutics.* 2021 Sep 15;13(9):1472. doi: 10.3390/pharmaceutics13091472. PMID: 34575548; PMCID: PMC8466377. Rodríguez\_Gascón A, Aguirre\_QUIñonero A, Aspiazu MAS, Canut\_Blasco A. Pharmacokinetic/Pharmacodynamic Analysis of Tedizolid Phosphate Compared to Linezolid for the Treatment of Infections Caused by Gram\_Positive Bacteria. *Antibiotics (Basel).* 2021 Jun 22;10(7):755. doi: 10.3390/antibiotics10070755. PMID: 34206434; PMCID: PMC8300700. 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Ibar\_Bariain M, Rodríguez\_Gascón A, Isla A, Solinís MÁ, Canut\_Blasco A. Evaluation of the adequacy of the antimicrobial therapy of invasive Haemophilus influenzae infections: A pharmacokinetic/pharmacodynamic perspective. *Enferm Infect Microbiol Clin.* 2020 Jul 4;S0213\_005X(20)30224\_X. English, Spanish. doi: 10.1016/j.eimc.2020.05.025. Epub ahead of print. PMID: 32636039. Vicente\_Pascual M, Gómez\_Aguado I, Rodríguez\_Castejón J, Rodríguez\_Gascón A, Muntoni E, Battaglia L, Del Pozo\_Rodríguez A, Solinís Aspiazu MÁ. Topical Administration of SLN\_Based Gene Therapy for the Treatment of Corneal Inflammation by De Novo IL\_10 Production. *Pharmaceutics.* 2020 Jun 23;12(6):584. doi: 10.3390/pharmaceutics12060584. PMID: 32586018; PMCID: PMC7355708. Barrasa H, Soraluce A, Usón E, Sainz J, Martín A, Sánchez\_Izquierdo JA, Maynar J, Rodríguez\_Gascón A, Isla A. 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Soraluze A, Barrasa H, Asín\_Prieto E, et al. Novel Population Pharmacokinetic Model for Linezolid in Critically Ill Patients and Evaluation of the Adequacy of the Current Dosing Recommendation. *Pharmaceutics.* 2020;12(1):54. Published 2020 Jan 9. doi:10.3390/pharmaceutics12010054 Del Pozo\_Rodríguez A, Rodríguez\_Gascón A, Rodríguez\_Castejón J, et al. Gene Therapy. *Adv Biochem Eng Biotechnol.* 2020;171:321-368. doi:10.1007/10\_2019\_109 Vicente\_Pascual M, Gómez\_Aguado I, Rodríguez\_Castejón J, et al. Topical Administration of SLN\_Based Gene Therapy for the Treatment of Corneal Inflammation by De Novo IL\_10 Production. *Pharmaceutics.* 2020;12(6):584. Published 2020 Jun 23. doi:10.3390/pharmaceutics12060584 Barrasa H, Soraluze A, Usón E, et al. 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## Projects

Projects Non\_viral gene therapy for Fabry disease. Design of a non\_viral vector for the treatment of ocular infections due to the herpes virus with gene therapy Design of a based lipid nanoparticle non viral vector for the treatment of Fabry disease with gene therapy Design of a non\_viral vector for the treatment of X linked juvenile retinoschisis with gene therapy Solid lipid nanoparticles for the treatment of chronic hepatitis C by RNA interference Lipid nanoparticles with antiretroviral compounds for oral administration Pharmacokinetic/Pharmacodynamic of prophylactic antibiotics in patients undergoing colorectal surgery

## Memberships

## Other Relevant Information

Supervision of PhD thesis Title: Antibioterapia en infecciones invasivas y no invasivas debidas a Streptococcus pneumoniae y Haemophilus influenzae: evaluación mediante análisis farmacocinético/farmacodinámico Student: Maitane Ibar Barriain University of the Basque Country UPV/EHU, 2020 Title: Diseño de un vector no viral basado en nanopartículas lipídicas para el tratamiento de la hepatitis C mediante ARN de interferencia Student: Josune Torrecilla Alzola University of the Basque Country UPV/EHU, 2016 Title: Design and evaluation of non\_viral vectors based on solid lipid nanoparticles for the treatment of X\_linked juvenile retinoschisin by gene therapy Student: Paola Stephanie Apaolaza Gallegos University of the Basque Country UPV/EHU, 2015 Title: Pharmacokinetic/pharmacodynamic analysis to optimize antibacterial therapy: application on breakpoint setting and dosing evaluation in critically ill patients and in surgical prophylaxis Student: Eduardo Asín Prieto University of the Basque Country UPV/EHU, 2015 Title: Population pharmacokinetics and pharmacokinetic/pharmacodynamic analysis of daptomycin and linezolid for dosing optimisation in critically ill patients Student: Amaia Soralue Olañeta University of the Basque Country UPV/EHU, 2018 Title: Efecto de las técnicas continuas de reemplazo renal y del aclaramiento renal aumentado en el comportamiento farmacocinético/farmacodinámico de linezolid en pacientes críticos Student: Helena Barrasa González University of the Basque Country UPV/EHU, 2019 Title: nanostructured lipid carriers as vehicles for the delivery of poorly water\_soluble compounds Student: Ana Belouqui García University of the Basque Country (Spain). 2013 Title: Design of a non\_viral vector based on solid lipid nanoparticles for the treatment of Fabry disease Student: Aritz Pérez Ruiz de Garibay University of the Basque Country UPV/EHU, 2013 Title: Design, optimization and in vivo evaluation of non\_viral vectors for gene therapy: Application in ocular disorders Student: Diego Delgado San Vicente University of the Basque Country (Spain). 2012 Title:Development of solid lipid nanoparticles as a system for gene therapy Student: Ana del Pozo Rodríguez University of the Basque Country (Spain). 2009 Title: Elimination of  $\beta$  lactams and enoxaparin in critically ill patients undergoing continuous renal replacement therapies Student: Arantxa Isla Ruiz University of the Basque Country (Spain). 2006 Title: Influence of renal function on the pharmacokinetics of piperazillin/tazobactam in critically ill patients undergoing continuous renal replacement therapies Student: Alazne Arzuaga Munsuri University of the Basque Country (Spain). 2006 Title: Optimization of cell microencapsulation for therapeutic application Student: Gorka Orive Arroyo University of the Basque Country (Spain). 2003 Title: Pharmacokinetic/Pharmacodynamic of prophylactic ofloxacin and pefloxacin in patients undergoing biliary surgery Student: Eugenia Campo Cimarras University of the Basque Country (Spain). 2000 Title: Influence of partial hepatectomy on the pharmacokinetics of theophylline Student: Ana María de la Maza Uriarte University of the Basque Country (Spain). 1996