Eva Bugallo Blanco

Research Scientist Immunology, UK

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SUMMARY

Innovative and skilled scientist with over 6 years of experience. My expertise spans from target discovery to in vivo efficacy assessment of gene cell therapy products for oncology and autoimmune disease. Proven ability to troubleshoot complex technical challenges and collaborate within cross-functional teams to drive innovation and meet project goals.

EXPERIENCE

Quell Therapeutics
Scientist 1, R&D, Pre-clinical team   *Feb 2024 - Present, London, UK*

- Leading junior researchers in executing complex cell-based assays to select best candidate for further studies.
- Optimised assays to efficiently assess CAR Treg candidates (functionality, CAR downmodulation, safety).
- Multi-colour FACs panel design to validate new assay protocols.
- Work closely with other departments, including Vector and Process and Analytical teams.
- Adaptable, accountable and coachable to meet each project's goal.

King's College London
Doctoral student   *Oct 2019 - Mar 2024, London, UK*

- Manage collaboration betweeen KCL & QMUL teams in a multidisciplinary project.
- Deep phenotyping and characterisation of traceable CAR T cells (in vitro & in vivo).
- Development of a novel non-invasive quantitation method for CAR T cells in preclinical models using nuclear medicine.
- Isolation and characterisation of infiltrating CAR T cells from mouse tumour samples.
- Presentation at 4 international scientific conferences (ISCT, EMIM & EACR)

King's College London
COVID-IP   *Mar 2020 - Jun 2020, London, UK*

- Two high-impact articles published defining the hallmarks of severe COVID-19 from patient's blood samples.
- Collaborative project with numerous interdependent steps, working in CL3 safety environment.

UCL Institute of Child Health
Research Assistant   *Jan 2018 - Sep 2019, London, UK*

- Screening of hybridomas for the production of novel scFv fragments.
- Design,production and characterisation of novel CAR T cells.
- Conducted 10x scRNAseq on paediatrict tumour samples in collaboration with Sanger Institute.

EDUCATION

Doctoral student
King's College London   *Oct 2019 - Mar 2024, London, UK*

DMRes in Molecular and Cellular Biosciences
Imperial College London   *Oct 2016 - Oct 2027, London, UK*

BSc in Biotechnology
University of Salamanca, & Melbourne   *Sep 2012 - Jun 2016, Spain & Australia*

KEY ACHIVEMENTS

- ✓ **Candidate selection to clinical phase**
  Design, execution and analysis of functional assays successfully meeting milestones in collaboration with AstraZeneca.
- ☆ **Innovative with a troubleshooting attitude**
  Developed a novel mathematical approach to non-invasively quantify CAR T cell infiltration in preclinical models.
- ✳ **Thrive in dynamic environments**
  Adaptable to changing environments, delivering high-quality data and collaborating internally and with CROs.

SKILLS

- Target discovery & Candidate selection
- Cloning, RT-PCR
- Viral vector production
- Assay development
- Cell-based assays, Incucyte
- ELLA, ELISA, MSD
- Multi-colour FACS (Lyric, Attune, BD)
- Personal Animal License (modules A-C)
- Pre-clinical models (iv, ip, BLI, SPECT)
- Flowjo, FCS express, & Graphad
- Electronic notebooks
- Data integrity & strong work ethic
- Attentiveness & Collaboration
- Efficient & Good communicator

PUBLICATIONS

Tumor to normal single-cell mRNA comparisons reveal a pan-neuroblastoma cancer cell
Science Advances, 2022

Acute immune signatures and their legacies in severe acute respiratory syndrome coronavirus- 2 infected cancer patients
Cancer Cell, 2021

A dynamic COVID-19 immune signature includes associations with poor prognosis
Nature Medicine, 2020

AWARDS

CRUK City of London PhD Fellowship

Best poster award, CRUK City of London Center Symposium, 2021

Exchange scholarship at the University of Melbourne, 2015-2016