CV Date	01/08/2022

Part A. PERSONAL INFORMATION

First Name	Maria Angeles		
Family Name	Juanes Ortiz		
Sex	Female	Date of Birth	
ID number Social Security, Passport			
URL Web	https://research.tees.ac.uk/en/persons/maria-angeles-juanes-ortiz		
Email Address	majuaor@uv.es; majuanes@cipf.es		
Open Researcher and Contributor ID (ORCID)			

A.1. Current position

Job Title	Group Leader		
Starting date	2022		
Institution	Centro de Investigación Príncipe Felipe		
Department / Centre			
Country		Phone Number	
Keywords			

A.2. Previous positions (Research Career breaks included)

Period	Job Title / Name of Employer / Country
2022 - 2026	Honorary Fellow / Teesside University
2020 - 2022	Group Leader / National Horizons Centre / Teesside University
2022 - 2022	Senior Lecturer / Teesside University
2020 - 2022	Lecturer in Biomedical Science / Teesside University / United Kingdom
2015 - 2020	Senior Postdoc / Brandeis University (USA)
2018 - 2018	Visitor Scientist / Fresnel Institut-Université Saint Jerome
2018 - 2018	Visitor Scientist / CNRS-CRCM-Institut Paoli Calmettes
2010 - 2014	postdoc / CRBM, CNRS, Montpellier, France
2013 - 2013	Postdoctoral Researcher / IMB a star, Singapore
2008 - 2010	Postdoc / Cambridge University
2008 - 2008	Assistant researcher / Facultat de Biologia, University of Valencia, Spain

A.3. Education

Degree/Master/PhD	University / Country	Year
PhD in Biochemistry and Cellular Biology	Universitat de Valencia-Facultat Biologia / Spain	2008
Treball d´Investigació Bioquímica i Biologia Molecular	Universitat de València-Facultat de Biologia / Spain	2003
Degree in Pharmacy	Universitat de Valencia-Facultat de Farmàcia	2001

Part B. CV SUMMARY

Dr Juanes performed her PhD studies at the University of Valencia (**Spain**). Later, she undertook postdoctoral studies at University of Cambridge (**UK**), Institute of Medical Biology A-Star (**Singapore**), CNRS institutions – CRBM in Montpellier, CRCM-Institut Paoli-Calmettes and Institut Fresnel in Marseille (**France**) and Brandeis University (**MA, USA**). In February 2020, she moved at Teesside University (TU) in Middlesbrough (**UK**) where she delivered lecturers and other works as a Group Leader at the National Horizons Centre, a research facility

from TU located in Darlington. In April 2022, Dr Juanes was promoted to Senior Lecturer in Biomedical Science. Currently she is Honorary Fellow at TU in the UK and Group Leader at the CIPF in Spain. Dr Juanes lab goal is to understand cytoskeleton mechanisms in collective migration, gut homeostasis, cancer invasion and cell division. Her ultimate goal is to find novel biomarkers for early detection and assist in the design for personalised therapies. She is expert in biochemistry, genetics, proteomics, cell biology, and advanced cell imaging. She has used models such as reconstituted proteins, budding yeast and mammalian cell lines. Earlier during her career, she focused on cytoskeletal regulation in cell polarity, cell cycle events and spindle morphogenesis. Her findings were published in **Nature Communications, Current Biology, Plos Genetics, Molecular Biology of the Cell and Journal of Cell Science**, among others.

In 2015, she started and led an independent program as senior postdoc centred on the tumour suppressor Adenomatous polyposis coli (APC) that has been the foundation of her research as a PI. She found that APC nucleates actin filaments in cells, and that this activity promotes microtubule-induced focal adhesion turnover and directed cell migration. This research resulted in two publications in **Journal of Cell Biology** (Juanes et al. 2017 and Juanes et al 2019), being Dr Juanes **first and co-corresponding author** in those papers). Moreover, she published a Current Biology that showed a novel cytoskeletal mechanism of profilin protein in amyotrophic lateral sclerosis disease. During the last year of her postdoc, she began a new project on APC that has been completed in her own laboratory at TU. She found that the microtubule end-binding protein EB1 directly inhibits APC-driven actin nucleation activity; published in **Current Biology** (Juanes et al. 2020, **co-corresponding author**). Moreover, she has publications as corresponding author in **Cancers, Methods Molecular Biology and Journal of Life Science. She has generated 27 peer-reviewed outcomes.**

Dr Juanes is serving in committees to evaluate BBSRC fellowships and she is part of the Peer Review College committe for evaluating funding at TU. She also serves peer-reviewing papers in the Journal of Cell Biology, Journal of Cell Biochemistry, Cell Reports and Journal of Life Science, whose she is Executive Editor board. She has supervised several undergraduate students and PhD students (in collaboration, and as a Director of Studies. Dr Juanes has taught to undergraduate students at Univ. of Valencia for 120h in 2005-2006, IMFAHE program for 30h in 2017-18 and since February 2020 at TU for >300h. Moreover, she is actively delivering Courses for Personal Development for postgraduate students working at Fujifilm Diosynth Biotechnologies. Further, Dr Juanes has been invited to give seminars at international/national Universities (e.g Cambridge) and Conferences (e.g ASCB), and to participate in outreach activities e.g. Riberencs pel món in Levante EMV in May 2016, La qüestió d´A punt TV in June 2019, Viajeros de Onda Cero Radio in May 2020, and in schools from Valencia - Col.legi Públic St Jaume Apòstol d´Alfarp and Institut Mestre Ramon Esteve de Catadau in January 2019. In February 2022 she has engaged in two media activities (Bona Vesprada - apuntTV, and Mancomunitat la Ribera alta) to promote Women in Science.

Part C. RELEVANT ACCOMPLISHMENTS

C.1. Most important publications in national or international peer-reviewed journals, books and conferences

AC: corresponding author. (nº x / nº y): position / total authors. If applicable, indicate the number of citations

1 **Scientific paper**. MAJO (AC); CPF; GJH; RJ; BLG. (1/5). 2020. EB1 directly regulates APC-mediated actin nucleation Current Biology. 30-23, pp.4763-4772. https://doi.org/10.1016/j.cub.2020.08.094

2 **Scientific paper**. Juanes MA (AC); Iznardon D; Badache A; Brasselet S; Mavrakis M; Goode BL. (1/6). 2019. The role of APC-mediated actin assembly in microtubule capture and focal adhesion turnover The role of APC-mediated actin assembly in microtubule capture and focal adhesion turnover. Journal of Cell Biology. 218-10, pp.3415-3435. scholar.google.citations (11) https://doi.org/10.1083/jcb.201904165

3 **Scientific paper**. DT; MAJ; SI; GR; Simonetta Piatti. (2/6). 2018. Recruitment of the mitotic exit network to yeast centrosomes couples septin displacement to actomyosin constriction Nature Communications. scholar google (16)

4 **Scientific paper**. JHR; MAJ; BLG. (2/3). 2017. Profilin Directly Promotes Microtubule Growth through Residues Mutated in Amyotrophic Lateral Sclerosis.Current Biology. 27-22, pp.3535-3543. scholar google (27)

5 **Scientific paper**. MAJ (AC); HB; JAE; RJ; AB; BLG. (1/6). 2017. Adenomatous polyposis coli nucleates actin assembly to drive cell migration and microtubule-induced focal adhesion turnover Journal of Cell Biology. 216-9, pp.2859-2875. scholar google (49)

6 **Scientific paper**. MAJ; SP. (1/2). 2016. Control of Formin Distribution and Actin Cable Assembly by the E3 Ubiquitin Ligases Dma1 and Dma2 Genetics. 204-1, pp.205-220. scholar google (10)

7 **Scientific paper**. LM; AB; MAJ; et al; SP. (3/9). 2015. Rho1- and Pkc1-dependent phosphorylation of the F-BAR protein Syp1 contributes to septin ring assembly.MBoC. 26-18, pp.3245-3262. scholar google (16) https://doi.org/10.1091/mbc.E15-06-0366

8 **Book chapter**. MAJ (AC). (1/1). 2017. Methods of Synchronization of Yeast Cells for the Analysis of Cell Cycle Progression.The Mitotic Exit Network. Methods Molecular Biology-Springer. 1505, pp.19-34. ISBN 978-1-4939-6502-1. scholar google (9)

9 **Scientific paper**. MAJ (AC); CAMG; MCB. (1/3). 2017. Rot1, an essential yeast protein, is degraded through the ER-associated protein degradation system (ERAD).Journal of Life Sciences.

10 **Scientific paper**. Carlos A. Martínez-Garay; M. Angeles Juanes; J. Carlos Igual; Ismael Mingarro and M. Carmen Bañó. (2/4). 2014. Transmembrane Ser of Rot1 protein is essential for yeast cell viability Biochemical Journal. 26, pp.3245-3262. scholar google (3) https://doi.org/10.1042/BJ20131306

11 **Scientific paper**. M. Angeles Juanes; Rita Khoueiry; Thomas Kupka; Anna Castro; Ingrid Mudrak; Egon Ogris; Thierry Lorca and Simonetta Piatti. (1/8). 2013. Budding yeast Greatwall and Endosulfines control activity and spatial regulation of PP2ACdc55 for timely mitotic progression, PloS Genetics, 9 (7): (2013) Plos Genetics. 458, pp.239-249. scholar google (49) https://doi.org/10.1371/journal.pgen.1003575

12 **Scientific paper**. M. Angeles Juanes; Hanlu Twyman; Edward Tunnacliffe; Zhiang Guo; Rogier ten Hoopen and Marisa Segal. (1/5). 2013. Spindle pole body history intrinsically links pole identity with asymmetric fate in budding yeast Current Biology. 23-14, pp.1310-1319. scholar google (25) https://doi.org/10.1016/j.cub.2013.05.057.

13 **Scientific paper**. Rogier ten Hoopen; Cristina Cepeda-Garcia; Rosario Fernandez-Arruti; M. Angeles Juanes; Nathalie Delgehyr and Marisa Segal. (4/6). 2012. Mechanism for astral microtubule capture by cortical Bud6p priming spindle polarity in S. cerevisiae Current Biology. 23, pp.1310-1319. scholar google (45)

14 **Scientific paper**. M. Angeles Juanes; Rogier ten Hoopen; Marisa Segal. (1/3). 2011. Ase1p phosphorylation by cyclin-dependent kinase promotes correct spindle assembly in S. cerevisiae Cell Cycle. 10-12, pp.1088-1097. scholar google (5)

15 **Scientific paper**. Cristina Cepeda Garcia; Nathalie Delgehyr; M. Angeles Juanes Ortiz; Rogier ten Hoopen; Alisa Zhiteneva; MS. (3/6). 2010. Actin-mediated delivery of astral microtubules instructs Kar9p asymmetric loading to the bud-ward spindle MBoC. 21-15, pp.2585-2595. scholar google (25) https://doi.org/10.1091/mbc.e10-03-0197

16 **Scientific paper**. M. Angeles Juanes; Carlos Andrés Martínez-Garay; Juan Carlos Igual; MCB. (1/4). 2010. Targeting and membrane insertion into the endoplasmic reticulum membrane of Saccharomyces cerevisiae essential protein Rot1 FEMS Yeast Research. 10-6, pp.639-647. scholar google (5) https://doi.org/10.1111/j.1567-1364.2010.00653.x

17 **Scientific paper**. M. Angeles Juanes; Juan Carlos Igual; MCB. (1/3). 2008. Membrane topology and post-translational modification of the Saccharomyces cerevisiae essential protein Rot1 Yeast. 10, pp.639-647. scholar google (12)

18 **Scientific paper**. M. Angeles Juanes; Ethel Queralt; M. Carmen Bañó; JCI. (1/4). 2007. Rot1 plays an antagonistic role to Clb2 in actin cytoskeleton dynamics throughout the cell cycle Journal of Cell Science. 25, pp.93-106. scholar google (14) https://doi.org/10.1242/jcs.002758

19 **Scientific edition**. GJH; MAJ; BLG. (2/3). 2019. Novel actin regulatory activities of IQGAP-APC-DIA1 complex revealed by single molecule imaging Biophysical Journal.

20 **Scientific edition**. JLHR; MAJ; BLG. (2/3). 2017. Profilin Directly Promotes Microtubule Growth through Residues Mutated in Amyotrophic Lateral Sclerosis MBoC. 28, pp.1138.

21 **Scientific edition**. GJH; MAJ; BLG. (2/3). 2017. Spatiotemporal Control of Actin Assembly at the Leading Edge by IQGAP.MBoC. 28, pp.605.

22 **Scientific edition**. MAJ (AC); RJ; AB; BLG. (1/4). 2016. Adenomatous polyposis coli (APC) nucleates actin assembly to drive cell migration and microtubule-induced focal adhesion turnover MBoC. 27.

23 **Scientific edition**. EQ; MAJ; MCB; JCI. (2/4). 2002. Rot1, a gen functionally linked to the PKC pathway, is required for proper mitotic exit Yeast, Wiley.

24 **Bibliographic review**. MAJ (AC). (1/1). 2020. Cytoskeletal Control and Wnt Signaling-APC's Dual Contributions in Stem Cell Division and Colorectal Cancer MDPI-Cancers. 12-12, pp.3811. https://doi.org/10.3390/cancers12123811

25 **Bibliographic review**. MAJ (AC). (1/1). 2016. Entangled but Finicky Ingression Protein Complexes for Successful Cytokinesis Postdoc Journal. 4-5, pp.30-35.

26 **Bibliographic review**. MAJ; SP. (1/2). 2016. The final cut: cell polarity meets cytokinesis at the bud neck in S. cerevisiae Cellular and Molecular Life Science. 73-16, pp.3115-3136. scholar google (30) https://doi.org/10.1007/s00018-016-2220-3

27 **Bibliographic review**. MAJ (AC). (1/1). 2016. Greatwall Kinase Oncogenic Properties Open New Horizons for Novel Human Cancer Therapies 4-3.

C.3. Research projects and contracts

1 **Project**. CIDEGENT. Conselleria d´Educació i Cultura. Juanes. (Centro de Investigación Príncipe Felipe). 30/07/2022-29/07/2026.

2 **Project**. Investigation and modelling of cytoskeletal activity in APC mutated bowel cancer. Teesside University. M. Angeles Juanes. (National Horizons Centre). 10/2021-09/2025. Principal investigator. Full PhD salary and fees covered by Teesside University for 4 years (22000GBP per year) + funding for reagents. Total personal in the project= 2, the PI and the awarded PhD student.

3 **Project**. SBF006/1070, Molecular coordination between cytoskeletal networks in collective cell migration and its impacts on development and disease. AMS Springboard. Juanes. (National Horizons Centre/ Teesside University). 04/2021-03/2023. 100.000 €. Principal investigator. PI of the project which includes a PDRA.

4 **Project**. Automated Morphological Characterisation of Hyphae (AMCH). Thyme Project Proof-of-Concept. Juanes Ortiz 1-PI. (National Horizons Centre-Teesside University). 01/07/2021-30/04/2022. 58.897 €. PI