Curriculum vitae

Name: MIGUEL ANGEL VALVERDE DE CASTRO

Date: 28-10-2024

SURNAME: **Valverde**
NAME: **Miguel A.**
Male

Current Professional Situation
Full Professor of Physiology

Entity: Universitat Pompeu Fabra
Faculty: Facultat de Ciències de la Salut i de la Vida
Department Dept. Ciències Experimentals i de la Salut
Address: C/ Dr. Aiguader, 80; 08003 Barcelona

Areas of research

Ion channels, mechano/osmotic transduction, calcium signaling, epithelial physiology/pathology, migraine, cell migration

Summary of Teaching Activities.

Lecturer. King's College London 1995-1999. Human physiology to biomedical and medical students.
Lecturer Universidad Pompeu Fabra de Barcelona 2000-2003. Human physiology to Biomedical students.
Full Professor of Physiology, Universidad Pompeu Fabra de Barcelona from 2003.

University Education

Degree	Institution	Date
Medical Degree	University of Valladolid	1/07/1988
M Phil. Pharmacology	Darwin Colledge. University of Cambridge (Reino Unido)	1/10/1991
PhD in Medicine	University of Valladolid	25/09/1992

Professional activity

Position	Institución	Date
Sandwich Student. Dept.. Physiology.	Facultad de Medicina. Universidad de Valladolid.	1986-1988
Intern Student. Emergency Room	Hospital Clínico Universitario Valladolid	1986-1988
PhD Student	Facultad de Medicina. Universidad de Valladolid	1988-1990
M.Phil. Student. Department of Pharmacology	University of Cambridge & The Babraham Institute Cambridge, U.K.	1990-1991
Senior Scientific Officer	University of Cambridge & The Babraham Institute Cambridge, U.K.	1992-1994
Demonstrator. Departamento de Bioquímica, Biología Molecular y Fisiología	Facultad de Medicina. Universidad de Valladolid	1994-1996
Postdoctoral Researcher Department of Clinical Biochemistry	University of Oxford Oxford, U.K.	1994-1995
University Lecturer (Profesor Titular de Universidad) King's College London	University of London, U.K.	1995-1999
Lecturer	Universitat Pompeu Fabra	1-7-1999 al 29-2-2003
Full Professor	Universitat Pompeu Fabra	2003

FUNDING.

1. NATO Research Grants. Regulatory adjustments of ionic activities in intestinal cells during absorption
Participants: Departamento de Fisiología, Facultad de Medicina, Valladolid, España, y Institute of Animal Physiology and Genetics Research, Babraham, Cambridge, CB2 4AT, U.K.
Duration: 1986-1989
PI: FV. Sepúlveda
$ 16037

2. Spanish Ministry of Education and Research. Proto-oncogenes and intracellular signals during early development of inner ear.
Participants: Departamento de Bioquímica y Biología Molecular y Fisiología. Facultad de Medicina, Valladolid.
Duration: 1989-1992
PI.: F Giraldez
€ 113.000

3. Cancer Research Campaign (U.K.). Cell volume regulated chloride channel as a physiological function of the multidrug resistance P-glycoprotein
Participants: Department of Cell Biology, The Babraham Institute, Cambridge CB2 4AT, U.K.
Duration: 1992-1994
PI: FV Sepúlveda
€ 52.701(Aprox 8.000.000 ptas)

4. Commission of the European Communities: Membrane Bound ATPases involved in translocation of hydrophobic molecules.
Participants: Department of Cell Biology, The Babraham Institute, Cambridge CB2 4AT, U.K. y Department of Clinical Biochemistry. University of Oxford, John Radcliffe Hospital Oxford OX3 9DU, U.K
PI: P. Deveaux.

5. The Royal Society U.K. 574006.G503/17458/JECL/SM. Cystic fibrosis and cell volume.
Participants: Dept. of Physiology, King's College London
Duration: 1996-1998
PI: MA Valverde
€ 14.000

6. Cystic Fibrosis Trust PJ426. Cell volume control in the small intestine of normal and cystic fibrosis mice.
Participants: Dept. of Physiology, King's College London
Duration: 1996-1998
PI: MA Valverde
€ 213.952

7. The Wellcome Trust (UK) Ref. 055619/Z/98/Z/JMW/TH/JF. Study of the molecular basis and pathological relevance of impaired cell volume regulation in cystic fibrosis airways.
Participants: Dept. of Physiology, King's College London
Duration: 1998-2000
PI: MA Valverde
€ 319.323 (interrupted on my return to Spain).

8. Human Frontiers Science Program RG-113/99M. Maxi-K channel beta subunit as the target for estrogens in the membrane of the vasculature.
Participants: Universitat Pompeu Fabra, Universidad de Chile, University of California Los Angeles, University of Oxford.
Duration: 2000-2003
PI and Coordinator: Miguel A. Valverde
$ 600.000

9. Spanish Ministry of Science and Education. SAF 2000-085. Study of the molecular basis and pathophysiological relevance of cell volume regulation in cystic fibrosis airways.
Duration: 2000-2003
Participant: Universitat Pompeu Fabra
PI: Miguel A Valverde
€ 157.879

10. Distinción de la Generalitat de Catalunya para la promoción de la investigación universitaria. Special Award from the Catalan Goverment for the Developmen of University Research.
Personal Award to MA Valverde
2000-2004
€120.343.

11. Spanish Health Mininistry (FIS). HERACLES Network. Genetic determinants of vascular dysfunction in hypertension.
Duration: 2003-2005
Participant: Universitat Pompeu Fabra
PI: Miguel A. Valverde
€ 267.648

12. Spanish Ministry of Science and Technology. SAF 2003-1240. Study of the molecular basis and regulation of TRPV4 channels.
Duration: 2003-2006
Participant: Universitat Pompeu Fabra
PI: Miguel A Valverde
€ 281.660

13. Spanish Ministry of Science and Education. SAF 2006-4973. Role of TRPV4 in the development of chronic respiratory disease.
Duration: 2006-2009
Participant: Universitat Pompeu Fabra

PI: Miguel A Valverde
€ 424.226

14. Spanish Health Mininistry (FIS). RD06/0009/0002 HERACLES Network. Genetic determinants of vascular dysfunction in hypertension.
Duration: 2006-2012
Participant: Universitat Pompeu Fabra
PI: Miguel A. Valverde
€ 292.800

15. Generalitat de Catalunya AGAUR SGR 2002-109. Cell Signalling Unit.
Duration: 2003-2006
Participants : Universitat Pompeu Fabra ta al estrés.
PI : MA Valverde
€ 35.847

16. Generalitat de Catalunya AGAUR SGR 2005-266. Molecular Physiology and Channelophathies.
Duration: 2005-2009
Participants : Universitat Pompeu Fabra ta al estrés.
PI : MA Valverde
€ 36.600

17. Fundacio La Marato TV3. 061331. Genetic and Molecular basis of migraine and ataxia.
Duration: 2007-2009
Participant: Universitat Pompeu Fabra
PI: JM Fernández, co-aplicant: Miguel A. Valverde
€ 100.220

18. Research Project with Industry. Grifols: Study of the protective role of a Grifols compound in Alzheimer.
Duration: 2008-2011.
Participant: Universitat Pompeu Fabra
PI: Francisco Muñoz, co-aplicant: Miguel A. Valverde.
€ 101.090

19. Fundacio La Marato TV3 080430. Ion channel in the pathogenesis and pharmacological response of essential hypertension.
Duration: 2009-2011
Participant: Universitat Pompeu Fabra
PI: Miguel A. Valverde;
€ 147.902

20. Ministry of Science and Innovation. Calcium signalling in chronic respiratory disease. SAF2009-9848.
Duration: 2009-2012
Participant. Universitat Pompeu fabra
PI: Miguel A. Valverde

€ 370.000

21. Generalitat de Catalunya AGAUR SGR 2009-1369. Molecular Physiology and Channelophathies.
Duration: 2009-2013
Participants : Universitat Pompeu Fabra.
PI : MA Valverde
€ 45.760

22. Almirall SA. CN09512. Study of the effect of Almirall drugs on the activity of TRPM4 channel.
Duration: Jan-May 2013.
Participant: Universitat Pompeu Fabra
PI: Miguel A. Valverde
€ 21.585,36

23. Spanish Health Ministry (FIS). HERACLES/RIC Network RD12/0042/0014. Mechanisms of hypertension in the development of atherosclerosis and related cardiovascular diseases
Duration: 2013-2016
Participant: Universitat Pompeu Fabra
PI: Miguel A. Valverde
€ 220.000

24. Ministry of Economy and Competitiveness. Calcium signalling in health and disease. SAF2012-38140.
Duration: 2013-2015
Participant. Universitat Pompeu fabra
PI: Miguel A. Valverde
€ 339.300

25. Migraine Research Foundation (New York, U.S.A.) (http://www.migraineresearchfoundation.org/about-mrf-grants.html). Project title: Identification of novel, selective voltage-gated $Ca_V2.1$ calcium channel inhibitors which reverse the gain of channel function produced by Hemiplegic Migraine *CACNA1A* mutations.
Participant entities: University Pompeu Fabra (Barcelona, SPAIN) and University of Sussex (Brighton, United Kingdom).Amount granted: 50.000 $.Duration: from 01/2015 to 12/2015.
PI: Dr. José Manuel Fernández Fernández. Co-aplicant: MA Valverde

26. **Ministry of Economy and Competitiveness** **ME**CHANO/OSMOSENSITIVE **CHA**N**N**ELS IN EP**I**THELIA, **C**ANCER AND **A**STHMA. SAF2015-69762-R
Duration: 2016-2018
Participant: Universitat Pompeu Fabra
PIs: Miguel A. Valverde and JM. Fernández-Fernández.

€280.000

27. Ministry of Science, Innovation and Universities

Role of Mechano/osmosentitive channels in short and long-term cellular functions. RTI2018-099718-B-I00
Duration: 2019-2021
Participant: University Pompeu Fabra
PI: Miguel A. Valverde
€290.000

28. Ministry of Science, Innovation and Universities

Mechanosensitive ion channels in the pathophysiology of Amyotrophic Lateral Sclerosis
PID2023-149767OB-100
Duration: 2024-2026
University Pompeu Fabra (Spain)
PIs: Francisco J. Muñoz and Miguel A. Valverde
€318.750

Projects by private bodies

1) Título:The small intestine crypt as a model for the pharmacological study of chloride secretion.
Funding body:Bayer Pharmaceuticals Plc. U.K.
Participants:: Department of Physiology, King's College London, Strand WC2R 2LS, U.K.
Duration: 1/01/1996- 30/12/1996
PI: Dr. M.A. Valverde

2) Title:Valoración de la actividad de fármacos LACER sobre el canal Maxi K
Funding Body:LACER SA
Participants. UPF, Barcelona
Duration: Sep 2000 - Ago 2001
PI: Dr. M.A. Valverde

3): Title: Role of Albuminin Alzheimer disease
Funding Body: Proyecto Grifols
Participants:Universitat Pompeu Fabra
PI: Francisco Muñoz. 1 de Marzo de 2008 a 28 de Febrero de 2011;
101.090,59 €

4)Title: Pharmacological study of TRPM4 channel.
Almirall SA. CN09512.
Participant: Universitat Pompeu Fabra
Duration: Jan-May 2013
PI: Miguel A. Valverde
€ 21.585,36

PUBLICATIONS

117. Kaustav Bera, Alex Kiepas, Inês Godet, Yizeng Li, Pranav Mehta, Brent Ifemembi, Colin D. Paul, Anindya Sen, Selma A. Serra, Konstantin Stoletov, Jiaxiang Tao, Gabriel Shatkin, Se Jong Lee, Yuqi Zhang, Adrianna Boen, Panagiotis Mistriotis, Daniele M. Gilkes, John D. Lewis, Chen-Ming Fan, Andrew P. Feinberg, Miguel A. Valverde, Sean X. Sun, Konstantinos Konstantopoulos.
Extracellular fluid viscosity enhances cell migration and cancer dissemination.
Nature **611**, 365–373 (2022). https://doi.org/10.1038/s41586-022-05394-6(2022). PMID: 36323783.

116. Zhang Y, Li Y, Thompson KN, Stoletov K, Yuan Q, Bera K, Lee SJ, Zhao R, Kiepas A, Wang Y, Mistriotis P, Serra SA, Lewis JD, **Valverde MA**, Martin SS, Sun SX, Konstantopoulos K.
Polarized Nhe1 And Swell1 Regulate Migration Direction, Efficiency And Metastasis
Nat Commun. 2022 Oct 17;13(1):6128. doi: 10.1038/s41467-022-33683-1.PMID: 36253369 **Q1 D1 IF 17**

115. J Carrillo-Garcia, V Herrera-Fernández, SA. Serra, F Rubio-Moscardo, M Vogel-Gonzalez, P Doñate-Macian, C F. Hevia, C Pujades and MA Valverde (2021)
The mechanosensitive Piezo1 channel controls endosome trafficking for an efficient cytokinetic abscission
Science Advances (2021) Oct 29;7(44):eabi7785. doi: 10.1126/sciadv.abi7785. **Q1 D1 IF 14.4**

114. Yankaskas CL, Bera K, Stoletov K, Serra SA, Carrillo-Garcia J, Tuntithavornwat S, Mistriotis P, Lewis JD, *Valverde MA*, Konstantopoulos K. (2021)
The fluid shear stress sensor TRPM7 regulates tumor cell intravasation
Science Advances 7 (28), eabh3457 Jul 9;7(28):eabh3457. doi: 10.1126/sciadv.abh3457.**Q1 D1 IF 14.4**

113. Serra SA, Stojakovic P, Amat R, Rubio-Moscardo F, Latorre P, Seisenbacher G, Canadell D, Böttcher R, Aregger M, Moffat J, de Nadal E, Valverde MA*, Posas F* (2021)
LRRC8A-containing chloride channel is crucial for cell volume recovery and survival under hypertonic conditions
Proceedings of the National Academy of Sciences 118 (23):e2025013118. Jun 8; doi: 10.1073/pnas.2025013118.**Q1 D1 IF 10.8**
* Senior corresponding authors

112. Vellino S, Oddou C, Rivier P, Boyault C, Hiriart-Bryant E, Kraut A, Martin R, Coute Y, Knölker HJ, Valverde MA, Albigès-Rizo C, Destaing O. (2021)
Cross-talk between the calcium channel TRPV4 and reactive oxygen species interlocks adhesive and degradative functions of invadosomes
Journal of Cell Biology 220 (2), e201910079 Feb 1;220(2):e201910079. doi: 10.1083/jcb.201910079. **Q1 D1 IF 10.5**

111. Venturini V, Pezzano F, Català Castro F, Häkkinen HM, Jiménez-Delgado S, Colomer-Rosell M, Marro M, Tolosa-Ramon Q, Paz-López S, Valverde MA, Weghuber J, Loza-Alvarez P, Krieg M, Wieser S, Ruprecht V.
The nucleus measures shape changes for cellular proprioception to control dynamic cell behavior
Science. 2020 Oct 16;370(6514):eaba2644. doi: 10.1126/science.aba2644. **Q1 D1 IF 41**

110. Doñate-Macian P, Duarte Y, Rubio-Moscardo F, Pérez-Vilaró G, Canan J, Díez J, González-Nilo F, Valverde MA (2022)
Structural determinants of TRPV4 inhibition and identification of new antagonists with antiviral activity
Br J Pharmacol. 2022 Jul;179(14):3576-3591. doi: 10.1111/bph.15267. Epub 2020 Sep 21. doi: 10.1111/bph.15267. **Q1 D1 IF 7.7**

109. Zhao R, Afthinos A, Zhu T, Mistriotis P, Li Y, Serra SA, Zhang Y, Yankaskas CL, He S, Valverde MA, Sun SX, Konstantopoulos K. (2019)
Cell sensing and decision-making in confinement: The role of TRPM7 in a tug of war between hydraulic pressure and cross-sectional area
Science Advances 2019 Jul 24;5(7):eaaw7243. doi: 10.1126/sciadv.aaw7243. **Q1 D1 IF 14.4**

108. G Cantero-Recasens, CM Butnaru, N Brouwers, S Mitrovic, MA Valverde, V Malhotra (2019).
Sodium channel TRPM4 and sodium/calcium exchangers (NCX) cooperate in the control of Ca2+-induced mucin secretion from goblet cells
Journal of Biological Chemistry 294 (3), 816-826 **Q2 IF 5.1**

107. Gerard Cantero-Recasens, Cristian M. Butnaru, Miguel A. Valverde, José R. Naranjo, Nathalie Brouwers, Vivek Malhotra (2018)
KChIP3 coupled to Ca^{2+} oscillations exerts a tonic brake on baseline mucin release in the colon. **eLife** e39729 (accepted 14th Sep 2018) **Q1 IF 7**

106. Carole Jung, Victor Fernández-Dueñas, Cristina Plata, Anna Garcia-Elias, Francisco Ciruela, José M. Fernández-Fernández and Miguel A. Valverde (2018).
Functional coupling of $GABA_{A/B}$ receptors and the channel TRPV4 mediates rapid progesterone signaling in the oviduct
Science Signaling 11(543). pii: eaam6558**. Q1 IF 7.5**

105. Doñate-Macian P. Jungfleisch J., Pérez-Vilaró G., Rubio-Moscardo F., Perálvarez-Marín A., Diez J. and , Valverde M.A. (2018).
The TRPV4 channel links calcium influx to DDX3X activity and viral infectivity
Nature Communications (2018) 9:2307; DOI: 10.1038/s41467-018-04776-7. **Q1 IF 14.9**

104. Rozen EJ, Roewenstrunk J, Barallobre MJ, Di Vona C, Jung C, Figueiredo AF, Luna J, Fillat C, Arbonés ML, Graupera M, Valverde MA, de la Luna S (2018)
DYRK1A Kinase Positively Regulates Angiogenic Responses in Endothelial Cells
Cell Reports 23(6):1867-1878
Q1 IF 8.3

103. Carlos Pardo-Pastor, Fanny Rubio-Moscardo, Marina Vogel-González, Selma A. Serra, Alexandros Afthinos, Sanela Mrkonjic, Olivier Destaing, Juan F. Abenza, José M. Fernández-Fernández, Xavier Trepat, Corinne Albiges-Rizo, Konstantinos Konstantopoulos, Miguel A. Valverde (2018)
Piezo2 channel regulates RhoA and actin cytoskeleton to promote cell mechanobiological responses

Proceedings of the National Academy of Sciences (U.S.A.) 115(8):1925-1930
Q1 D1 IF 9.6

102. Núnez-Ollé M, Jung C, Terré B, Balsiger NA, Plata C, Roset R, Pardo-Pastor C, Garrido M, Rojas S, Alameda F, Lloreta J, Martín-Caballero J, Flores JM, Stracker TH, Valverde MA, Muñoz FJ, Gil-Gómez G. (2017)
Constitutive Cyclin O deficiency results in penetrant hydrocephalus, impaired growth and infertility.
Oncotarget 8(59):99261-99273.
Q1 IF 5.0

101. Sanchez A, Alvarez JL, Demydenko K, Jung C, Alpizar YA, Alvarez-Collazo J, Cokic SM, Valverde MA, Hoet PH, Talavera K. (2017).
Silica nanoparticles inhibit the cation channel TRPV4 in airway epithelial cells.
Part Fibre Toxicol. 2017 Nov 3;14(1):43. doi: 10.1186/s12989-017-0224-2.
Q1 D1 IF 8.5

100. Yeranddy A. Alpizar, Brett Boonen, Alicia Sanchez, Carole Jung, Alejandro López-Requena, Robbe Naert, Brecht Steelant, Katrien Luyts, Cristina Plata, Vanessa De Vooght, Jeroen A. J. Vanoirbeek, Victor M. Meseguer, Thomas Voets, Julio L. Alvarez, Peter W. Hellings, Peter H. M. Hoet, Benoit Nemery, Miguel A. Valverde and Karel Talavera (2017).
TRPV4 activation triggers protective responses to bacterial lipopolysaccharides in airway epithelial cells
Nature Communications 8(1):1059. doi: 10.1038/s41467-017-01201-3.
Q1 IF 14.9

99. Berna-Erro A, Izquierdo-Serra M, Sepúlveda RV, Rubio-Moscardo F, Doñate-Macián P, Serra SA, Carrillo-Garcia J, Perálvarez-Marín A, González-Nilo F, Fernández-Fernández JM, Valverde MA (2017)**.**
Structural determinants of 5',6'-epoxyeicosatrienoic acid binding to and activation of TRPV4 channel.
Sci Rep. 2017 Sep 5;7(1):10522. doi: 10.1038/s41598-017-11274-1.PMID:28874838
Q1 IF 4.2

98. Laura R. Sadofsky, Gerard Cantero-Recasens, Carolyn E. Wright, Miguel A. Valverde and Alyn H. Morice (2017)
TRPV1 polymorphisms influence capsaicin cough sensitivity in men.
Journal of Thoracic Disease 9(3):839-840. doi: 10.21037/jtd.2017.03.50

97. Ramos-Fernández E, Tajes M, Ill-Raga G, Vargas L, Busquets-García A, Bosch-Morató M, Guivernau B, Valls-Comamala V, Gomis M, Grau C, Fandos C, Rosen MD, Rabinowitz MH, Inestrosa N, Maldonado R, Altafaj X, Ozaita A, Alvarez A, Vicente R, Valverde MA, Muñoz FJ.(2016)
Glutamatergic stimulation induces GluN2B translation by the nitric oxide-Heme-Regulated eIF2α kinase in cortical neurons.
Oncotarget. 7:58876-92.
Q1 IF 5.0

96. Henry CO, Dalloneau E, Pérez-Berezo MT, Plata C, Wu Y, Guillon A, Morello E, Aimar RF, Potier-Cartereau M, Esnard F, Coraux C, Börnchen C, Kiefmann R, Vandier C, Touqui L, Valverde MA, Cenac N, Si-Tahar M. (2016)
In vitro and in vivo evidence for an inflammatory role of the calcium channel TRPV4 in lung epithelium: Potential involvement in cystic fibrosis.
Am J Physiol Lung Cell Mol Physiol. 311(3):L664-75.
Q1 IF 4.7

95. Hung, Wei-Chien; Yang, Jessica R.; Yankaskas, Christopher; Wong, Bin Sheng; Wu, Pei-Hsun; Pardo-Pastor , Carlos; Serra, Selma A.; Chiang, Meng-Jung; Gu, Zhizhan; Wirtz, Denis; Valverde, Miguel A.; Yang, Joy T.; Zhang, Jin and Konstantopoulos, Konstantinos (2016)
Confinement-sensing and Signal Optimization via Piezo1/PKA and Myosin II pathways
CELL Reports 15:1430-41
Q1 IF 8.3

94. Terré B, Piergiovanni Gabriele, Segura-Bayona Sandra, Gil-Gómez Gabriel, Youssef Sameh A, Attolini Camille Stephan-Otto, Wilsch-Bräuninger Michaela, Jung Carole, Rojas Ana M., Marjanović Marko, Knobel Philip A., Palenzuela Lluís, López-Rovira Teresa, Forrow Stephen, Huttner Wieland B., Valverde Miguel A., de Bruin Alain, Costanzo Vincenzo and Stracker Travis H (2016)
GEMC1 is a critical regulator of multiciliated cell differentiation
EMBO J 35:942-60
Q1 IF 9.4

93. Galindo-Villegas J, Montalban-Arques A, Liarte S, de Oliveira S, Pardo-Pastor C, Rubio-Moscardo F, Meseguer J, Valverde MA, Mulero V (2016)
TRPV4-Mediated Detection of Hyposmotic Stress by Skin Keratinocytes Activates Developmental Immunity
Journal of Immunology. 196(2):738-49.
Q1 IF 5.9

92. Cuadrado-Godia E, Regueiro A, Núñez J, Díaz-Ricard M, Novella S, Oliveras A, Valverde MA, Marrugat J, Ois A, Giralt-Steinhauer E, Sanchís J, Escolar G, Hermenegildo C, Heras M, Roquer J (2015)
Endothelial Progenitor Cells Predict Cardiovascular Events after Atherothrombotic Stroke and Acute Myocardial Infarction. A PROCELL Substudy.
PLoS One. 2015 Sep 2;10(9):e0132415. doi: 10.1371/journal.pone.0132415.
Q1 IF 3.2

91. Anna Garcia-Elias[1], Alejandro Berna-Erro[1], Fanny Rubio-Moscardo, Carlos Pardo-Pastor, Sanela Mrkonjić, Romina V. Sepúlveda, Rubén Vicente, Fernando González-Nilo and Miguel A. Valverde (2015)
Interaction between the linker, pre-S1 and TRP domains determines folding, assembly and trafficking of TRPV channels
Structure 23:1404-13.
Q1 6.1

90. Fernández-Mariño AI, Cidad P, Zafra D, Nocito L, Domínguez J, Oliván-Viguera A, Köhler R, López-López JR, Pérez-García MT, Valverde MÁ, Guinovart JJ, Fernández-Fernández JM.
Tungstate-targeting of BKαβ1 channels tunes ERK phosphorylation and cell proliferation in human vascular smooth muscle.
PLoS One. 2015 Feb 6;10(2):e0118148. doi: 10.1371/journal.pone.0118148**.**
Q1 IF 3.2

89. Ander Regueiro; Elisa Cuadrado-Godia; Carlos Bueno-Beti; Maribel Diaz-Ricart; Anna Oliveras; Susana Novella; Gemma Gonzalez-Gene; Carole Jung; Isaac Subirana; Jose Tomas Ortiz-Perez; Merce Roque; Xavier Freixa; Julio Nuñez; Gines Escolar; Jaume Marrugat; Carlos Hermenegildo; Miguel Angel Valverde; Jaume Roquer; Juan Sanchis; Magda Heras.(2015)
Mobilization of endothelial progenitor cells in acute cardiovascular events in the Procell study: Time-course after acute myocardial infarction and stroke.
Journal of Molecular and Cellular Cardiology 2015, 80:146-55.
Q1 IF 4.6

88. Sanela Mrkonjić, Anna Garcia-Elias, Carlos Pardo-Pastor, Elsa Bazellières, Xavier Trepat, Joris Vriens, Debapriya Ghosh, Thomas Voets, Rubén Vicente and Miguel A. Valverde (2015)
TRPV4 participates in the establishment of trailing adhesions and directional persistence of migrating cells.
Pflugers Arch. 467(10):2107-19
Q1 IF 4.1

87. Ill-Raga G, Palomer E, Ramos-Fernández E, Guix FX, Bosch-Morató M, Guivernau B, Tajes M, Valls-Comamala V, Jiménez-Conde J, Ois A, Pérez-Asensio F, Reyes-Navarro M, Caballo C, Gil-Gómez G, López-Vílchez I, Galán AM, Alameda F, Escolar G, Opazo C, Planas A, Roquer J, **Valverde MA**, Muñoz FJ. (2015)
Fibrinogen Nitrotyrosination After Ischemic Stroke Impairs Thrombolysis And Promotes Neuronal Death.
Biochim Biophys Acta. 1852(3):421-8.
Q1 IF 4.88

86. Vila-Pueyo M, Gené GG, Flotats-Bastardes M, Elorza X, Sintas C, **Valverde MA**, Cormand B, Fernández-Fernández JM, Macaya A,
A loss-of-function CACNA1A mutation causing benign paroxysmal torticollis of infancy
European journal of paediatric neurology, 18(3), 430-433 (2014)
Q2 IF 2.3

85. **Extreme Population Differences in the Human Zinc Transporter ZIP4 (SLC39A4) Are Explained by Positive Selection in Sub-Saharan Africa**.
Engelken J, Carnero-Montoro E, Pybus M, Andrews GK, Lalueza-Fox C, Comas D, Sekler I, de la Rasilla M, Rosas A, Stoneking M, **Valverde MA**, Vicente R, Bosch E.
PLoS Genet. 2014 Feb 20;10(2):e1004128. doi: 10.1371/journal.pgen.1004128.
Q1 D1 IF 7.5

84. **Posttranslational Nitro-Glycative Modifications of Albumin in Alzheimer's Disease: Implications in Cytotoxicity and Amyloid β-Peptide Aggregation**

Eva Ramos-Fernández, Marta Tajes, Ernest Palomer, Gerard ILL-Raga, Mònica Bosch-Morató, Biuse Guivernau, Irene Román-Dégano, Abel Eraso, Daniel Alcolea, Juan Fortea, Laura Nuñez, Antonio Paez, Francesc Alameda, Xavier Fernàndez-Busquets, Alberto Lleó, Roberto Elosúa, Mercé Boada, **Miguel A. Valverde**, and Francisco J. Muñoz
J. Alzh. Dis. 40(3), 643-57 (2014).
Q1 IF 4.1

83. Fernández-Mariño AI, **Valverde MA**, Fernández-Fernández JM.
BK channel activation by tungstate requires the β1-subunit extracellular loop residues essential to modulate voltage sensor function and channel gating.
Pflugers Arch. 466(7):1365-75 (2014)
Q1 IF 4.1

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Hypotonicity increases apical membrane Cl^- conductance in Necturus enterocytes.
Biochimica & Biophysica Acta 942, 353-356 (1988). **Q2 IF 3.8**

Other Scientific Documents

1.- Valverde, M.A. (1988). Cl^- conductance and cellular volume in Necturus Maculosus intestinal cells. **M.D. Thesis**, Facultad de Medicina, Universidad de Valladolid.

2.- Valverde, M.A. (1991). Chloride currents of unstimulated T_{84} intestinal epitelial cells. **M. Phil. Thesis**. Cambridge University.

3.- Valverde, M.A. (1992). Electrophysiological study of the volume-regulated chloride channel associated with the P-glycoprotein expression. **PhD Thesis**, Facultad de Medicina, Universidad de Valladolid.

4.- Valverde, M.A., Hardy, S.P. & Monaghan, A.S. (1997). Chloride channel pharmacology. In: **Ion channel pharmacology**. Eds. V. Ceña and B. Soria. Oxford University Press.
CL

5. Higgins, C.F., Weylandt, K.H., Nastrucci. C., Sardini, A., Diaz, M. and Valverde, M.A. (1999). Swelling –activated chloride channels and their regulation by P-glycoprotein. In: **Chloride channels** R. Kozlowski (ed.) Isis Medical Media Ltd., Oxford, p 35-46.
CL

6. Valverde MA (2001). Realidades y retos de las nuevas tecnologías. En: Sostenibilidad del sistema sanitario. **Opinión Quiral: Medicina, comunicación y sociedad. Barcelona**
CL

7. Andrade YN, Fernandes J, Lorenzo I, Arniges M and Valverde MA (2006) TRPV4 channel in ciliated epithelia. In: **TRP Ion channels in transduction of sensory stimuli and cellular signaling cascades.** Liedtke W and Heller S (ed) CRC press, Boca Ratón p413-420.
CL

8. Garcia-Elias A, Mrkonjić S, Jung C, Pardo-Pastor C, Vicente R, **Valverde MA**. (2014) The TRPV4 channel. Handb Exp Pharmacol. 2014;222:293-319. doi: 10.1007/978-3-642-54215-2_12. Review. PMID: 24756711

Invited talks (15 selected)

Mechanosensitive Ion Channels in Confined Cell Migration. 20 years of TRPV4 . Exploring Science, Discovery, and Future Directions. New York 8-11 June 2021.

Mechano/osmosensitive ion channels in cancer invasion and metastasis. Ion Channel Initiative, Caceres May 2019.

Mechano/osmosensitive ion channels in cancer invasion and metastasis. 41st congress of the Spanish Molecular Biology Society, Santander 10-13 Sept 2018.

TRPV4 channel in epithelial physiology. TRP channel meeting. Leuven, Belgium. September 2015

Regulation and population genetics of TRP channels. Le Studium conference on Chronic Inflammatory lung disease, Tours, France, September 2013

Regulation and population genetics of TRP channels. European respiratory Society, Sensational developments in the airways, Dublin, Ireland. May 2013

Role of TRPV4 N-terminus in channel gating and cell shape.
European Calcium Channel Conference, Alpbac, Austria, May 2012.

TRP channels in asthma.
Meeting on Genes x Occupation Interactions in Asthma, Paris 12th January 2011.

Molecular regulation of the volume sensitive TRPV4 channel.
International meeting on Cell Volume Regulation and Anion Transport, Okazaki, Japan August 2009.

TRPs and CRAC channels
Chairman and Discussion Leader. Gordon Research Conference on ION CHANNELS. Tilton School, USA. 6-11 July 2008.

Cross-talk between IP3 receptor and TRPV4 signalling in ciliated epithelia.
European Science Foundation Conference on Rare Diseases: Channels and Transporters. St. Feliu Guixols, Girona, Spain 8-12 March 2008.

Mechanical and osmotic activation of TRPV4 via signal transduction cascades.
6th International symposium on cell volume regulation in health and disease. Salzburg, Austria 21-24 September 2007.

Convergence of signal transduction pathways in the activation of TRPV4 mediated Ca^{2+} entry
Chairman. 14th International Congress of Ca^{2+} binding proteins. La Palma, Canarias, 16-21 October 2007.

Modulation of Ion channels by estrogens.

3rd Federation of European Physiological Societies Congress. Nice (France). July 2003

Swelling-sensitive ion channels in secretory epithelia.
XIV International Biophysics Congress. Buenos Aires (Argentina). *May* 2002

Patents

1. José M. Fernández-Fernández, Marta Tomás, Esther Vázquez, Mariano Sentí, Jaume Marrugat y Miguel A. Valverde
Titulo: Método y kit para la detección del riesgo de padecer hipertensión arterial
Registro: P200400883
Entidad: Universidad Pompeu Fabra.
Fecha: 29 Marzo 2004
Internacional.

2. Francisco J Muñóz, Gerard ILL-Raga y Miguel A. Valverde.

Título: 3-Nitrotyrosinated fibrinogen as a diagnostic marker in ischemic stroke and uses thereof

Registro P201290032

Entidad: Universidad Pompeu Fabra

Fecha: Noviembre 2009

Internacional.

Stays at Foriegn Laboratories

CLAVE: D = PhD, P = postdoctoral, I = invited, C = contract, O = others

Centro: Department of Pharmacology, University of Cambridge & The Babraham Institute

Localidad: Cambridge País: Inglaterra Fecha: Agosto 1990-Junio 1991
Tema: Canales de cloruro en las celulas epiteliales de intestino T84 Clave: D

Centro: The Babraham Institute

Localidad: Cambridge País: Inglaterra Fecha: Julio 1991-Marzo 1994
Tema: Regulación de los canales de cloruro Clave: P

Centro: Nuffield Department of Clinical Biochemistry, John Radcliffe Hospital

Localidad: Oxford País: Inglaterra Fecha: Abril 1994- Agosto 1995
Tema: Efecto de las hormonas sexuales y sus antagonistas en las membranas biológicas
Clave: P

Centro: Departamento de Neurobiología, Instituto Mexicano de Psiquiatría

Localidad: Mexico D.F. País: Mexico Fecha: Marzo 1995- Abril 1995
Tema: Medida del volumen celular con técnicas de microscopía fluorescente Clave: I

Centro: Neuroscience Research Centre, Department of Physiology, King's College London

Localidad: London País: Inglaterra Fecha: Septiembre 1995- Agosto 1999
Tema: Regulacion del volumen celular en tejidos epiteliales Clave: C (profesor titular)

Centro: Centro de Estudios Científicos de Santiago. Universidad de Chile

Localidad: Santiago País: Chile Fecha: Marzo-Junio 1998, Julio 1999
Tema: Expresión de canales iónicos en oocitos de Xenopus Clave: I

SUPERVISED PhDs

1. Título: VOLUME-REGULATED ION CHANNELS AND THEIR INTERACTION WITH P-GLYCOPROTEIN
Doctorando: Tamara Bond
Universidad: University of Oxford
Facultad / Escuela: Dept. of Clinical Biochemistry
Fecha: Defendida en 1997
Co-supervisada con el Prof. C.F. Higgins.

2. Título: BASES MOLECULARES DE LA REGULACIÓN DE LOS CANALES DE Cl^- POR ESTRÓGENOS Y ANTIESTRÓGENOS.
Doctorando: Maria I. Bahamonde
Universidad: Universitat Pompeu Fabra
Facultad / Escuela: Departamento de Ciencies Experimentals
Fecha: Inicio Enero 2000.
Defensa Febrero 2004. Sobresaliente cum laude
Director: Miguel A Valverde

3. Título: SWELLING-ACTIVATED Ca^{2+} ENTRY VIA TRPV4 CHANNEL IN NORMAL AND CYSTIC FIBROSIS AIRWAY EPITHELIA
DOCTORANDA: Maite Arniges Gómez
UNIVERSIDAD: Universitat Pompeu Fabra
FACULTAD: Ciencies de la Salut i la Vida
DEPARTAMENTo: Ciencies Expeimentals i de la Salut
Defensa junio 2006. Sobresaliente cum laude
Directores: Esther Vázquez y Miguel A Valverde

4. Tïtulo: VASCULAR ASPECTS OF ALZHEIMER'S DISEASE.
DOCTORANDO: Mireia Coma Camprodon
UNIVERSIDAD: Universitat Pompeu Fabra
FACULTAD: Ciencies de la Salut i la Vida
DEPARTAMENT:O Ciencies Expeimentals i de la Salut
Defensa: Junio 2007. Sobresaliente cum laude
Directores: Francisco J. Muñoz y Miguel A Valverde

5. Título: ROLE OF TRPV4 CHANNEL IN THE REGULATION OF CILIARY BEATING FREQUENCY
DOCTORANDO: Ivan Lorenzo
UNIVERSIDAD: Universitat Pompeu Fabra
FACULTAD: Ciencies de la Salut i la Vida
DEPARTAMENTO: Ciencies Expeimentals i de la Salut
Año: Inicio Octubre 2004
Defensa: Julio 2008. Sobresaliente cum laude
Director: Miguel A Valverde

6. Titulo: ESTUDIO DEL PAPEL DEL Ca^{2+} EN LA NEURODEGENERACIÓN COLINÉRGICA EN LA ENFERMEDAD DE ALZHEIMER.
DOCTORANDO: Francesc Xavier Guix
UNIVERSIDAD: Universitat Pompeu Fabra
FACULTAD: Ciencies de la Salut i la Vida
DEPARTAMENT:O Ciencies Expeimentals i de la Salut
Año: Inicio Octubre 2004
Defensa Enero 2009. Sobresaliente cum laude
Directores: Francisco J. Muñoz y Miguel A Valverde

7. Title: Identificación y estudio funcional de mutaciones en el canal $Ca_V2.1$ asociadas a migraña y ataxia
DOCTORANDA: Selma A Serra
UNIVERSIDAD: Universitat Pompeu Fabra
FACULTAD: Ciencies de la Salut i la Vida
DEPARTAMENTO: Ciencies Expeimentals i de la Salut
Año: Inicio Octubre 2005
Defensa: Julio 2011. Sobresaliente cum laude, Mención Europea
Directores: JM Fernández-Fernández y Miguel A Valverde

8. Title: Molecular determinats of TRPV4 channel regulation
DOCTORANDA: Anna Garcia-Elias
UNIVERSIDAD: Universitat Pompeu Fabra
FACULTAD: Ciencies de la Salut i la Vida
DEPARTAMENTO: Ciencies Expeimentals i de la Salut
Año: Inicio Octubre 2007
Defensa: Junio 2011. Sobresaliente cum laude, Mención Europea
Directores: Miguel A Valverde

9. Title: Cellular Calcium homeostasis in the pathophysiology of chronic respiratory disease
DOCTORANDA: Gerard Cantero Recasens
UNIVERSIDAD: Universitat Pompeu Fabra
FACULTAD: Ciencies de la Salut i la Vida
DEPARTAMENTO: Ciencies Expeimentals i de la Salut
Año: Octubre 2009
Defensa: 10 Enero 2013. Sobresaliente cum laude, Mención Europea
Directores: Miguel A Valverde

10. Title: Regulation of BK channel by tungstate and its relevance for the control of vascular tone and intracellular signalling
DOCTORANDA: Ana I. Fernández Mariño
UNIVERSIDAD: Universitat Pompeu Fabra
FACULTAD: Ciencies de la Salut i la Vida
DEPARTAMENTO: Ciencies Expeimentals i de la Salut
Año: Inicio Octubre 2009
Defensa: Julio 2013. Sobresaliente cum laude, Mención Europea
Directores: Miguel A Valverde

11. Title: TRPV4 regulation and involvement in cell motility
DOCTORANDA: Sanela Mrkonjic
UNIVERSIDAD: Universitat Pompeu Fabra
FACULTAD: Ciencies de la Salut i la Vida
DEPARTAMENTO: Ciencies Expeimentals i de la Salut
Año: Inicio Junio 2010
Defensa: Marzo 2014. Sobresaliente cum laude,
Director: Miguel A Valverde

12. Title. Mechano/osmosensitive channels in cáncer metástasis.
DOCTORANDA: Carlos Pardo Pastor
UNIVERSIDAD: Universitat Pompeu Fabra
FACULTAD: Ciencies de la Salut i la Vida
DEPARTAMENTO: Ciencies Expeimentals i de la Salut
Año: Inicio January 2014
Defensa: January 2018. Sobresaliente cum laude,
Director: Miguel A Valverde

13. Title. Zinc homeostasis and disease. Impact on breast cancer progression and infection severity
DOCTORANDA: Marina Vogel-González
UNIVERSIDAD: Universitat Pompeu Fabra
FACULTAD: Ciencies de la Salut i la Vida
DEPARTAMENTO: Ciencies Expeimentals i de la Salut
Año: Inicio January 2017
Defensa: September 2021. Sobresaliente cum laude,
Director: Rubén Vicente and Miguel A Valverde

14. Title. Regulation of Piezo1 channels and
its impact on cell division.
DOCTORANDA: Julia Carrillo-Garcia
UNIVERSIDAD: Universitat Pompeu Fabra
FACULTAD: Ciencies de la Salut i la Vida
DEPARTAMENTO: Ciencies Expeimentals i de la Salut
Año: Inicio January 2017
Defensa: 30 Sept 2021
Director: Miguel A Valverde and José M. Fernández-Fdez

Undergraduate Thesis

Título: Identification of the anionic channels involved in cell volume regulation in T84 cells
Doctorando: Sujidra Ambikapaphy
Universidad: King's College London
Facultad / Escuela: Biomedical Sciences
Fecha: 1996-1997

Título: Modulation of ionic pathways in the wild-type and ΔF508 mouse intestinal crypts.

Doctorando: Zubaida M. Siddiqui
Universidad: King's College London
Facultad / Escuela: Biomedical Sciences
Fecha: 1996-1997

Título: Cell volume regulation in normal and cystic firbrosis airway epithelia
Doctorando: Anita Sugavanam
Universidad: King's College London
Facultad / Escuela: Biomedical Sciences
Fecha: 1996-1997

Título: Study of chloride secretion in morphologically differentiated and undifferentiated intestinal cell lines.
Doctorando: Shbana Rahman
Universidad: King's College London
Facultad / Escuela: Biomedical Sciences
Fecha: 1996-1997

Título:Cell volume regulation in wild-type and cystic fibrosis murine tracheal cells. Characterization of the volume regulated ionic conductances
Doctorando: Hagar Lock
Universidad: University of Brighton and King's College London
Facultad / Escuela: Biomedical Sciences
Fecha: 1997-1998

Título: Characterization of the mechanisms involved in regulatory volume decrease in human airway cells.
Doctorando: Shanthi Thambapillai.
Universidad: King's College London
Facultad / Escuela: Biomedical Sciences
Fecha: 1997-1998

Título: Correction of the secretory and cell volume regulatory mechanisms by expression of CFTRT in a ΔF508 human airways cell line.
Doctorando: Cheryl Young
Universidad: King's College London
Facultad / Escuela: Biomedical Sciences
Fecha: 1998-1999.

RESERCH COMMITTES

Título del Comité: Editorial Board
Entidad de la que depende: Journal of Molecular Membrane Biology
Tema: Estructura y función de proteínas de membrana
Fecha: desde 1996

Título del Comité: Comisión de evaluación de proyectos de Investigación en enfermedades neurológicas y mentales.
Entidad de la que depende: Instituto de Salud Carlos III, Subdirección general de evaluación y fomento de la investigación.
Fecha: desde Junio 2004-diciembre 2005.

Título del Comité: Consejo asesor del plan director de enfermedades del aparato circulatorio.
Entidad de la que depende: Consejería de Salud y Bienestar. Generalitat de Catalunya.
Fecha: desde Julio 2005.

Título del Comité: Comité por la integridad de la Investigación
Entidad de la que depende: Parque de Investigación Biomédica de Barcelona
Fecha: desde Enero 2001-diciembre 2006.

ORGANIZATION OF RESEARCH MEETINGS

Title: “Environmental oestrogens in health and dissease”. Harlow U.K.
Tipo de actividad: Organización de congreso Ambito: The Physiological Society
Fecha: 2-4 Noviembre de 1998.

Title: “Molecular physiology of chloride channels”. Manchester, U.K.
Tipo de actividad: Organización de Congreso Ambito: The Physiological Society
Fecha: 28-31 Marzo de 1999.

Title: “Cystic fibrosis: a deffect of the protein and hydroelectrolitic secretory pathway”. Halkidiki, Grecia
Tipo de actividad: Organización de Congreso Ambito: European Network on Cystic Fibrosis
Fecha: 5-9 Mayo de 1999

Title: “Genomic vs non-genomic steroid actions: encountered or unified views”
Tipo de actividad: Organización de congreso. Ambito: Centro de Reuniones Internacionales sobre Biología, Instituto Juan March de Estudios e Investigaciones
Fecha: 17-19 Diciembre 2001.

Title: “Celular and Molecular Aspects of Calcium Signalling”
Tipo de actividad: Organización de congreso. Ambito: 1er simposio internacional del programa de Biología Celular y Molecular del Departamento de Ciencias Experimentales, UPF.

Fecha: 17 Septiembre 2012

OTHER

Awards:

- PhD Thesis, Universidad de Valladolid, 1992.
- Distinció de la Generalitat de Catalunya para la promoción de la investigación universitaria, 2000.
- Premio ICREA Academia. 2008

Research Socities:

- Miembro de la Physiological Society, desde 1994.
- Miembro de la Sociedad de Ciencias Fisiológicas de España, desde 2000

Consultant

- Bayer Pharmaceuticals Plc. U.K. 1996-1999. .
- Cardiovascular diseases committee of Catalunya from 2005.

Reviewer

- Nature, Nature Cell Biology, Nature Communications, PNAS, Pflugers Arch

Administrative duties

- Vice-director Dept. of Experimental and Health Sciences 2007-2010.
- Director of the Cell and Molecular Biology program at Univesristy Pompeu Fabra