CV date	15/01/2023

Part A. PERSONAL INFORMATION

First and Family name	Margarita Rivera Sánchez		
ID number		Age	
Researcher codes	WoS Researcher ID	J-3017-2017	
	SCOPUS Author ID	18038126000	
	ORCID ID	0000-0003-4717-1045	

A.1. Current position

Name of University/Institution	University of Granada		
Department	Department of Biochemistry and Molecular Biology II		
Address and Country	CIBM. Parque Tecnológico Ciencias de la Salud, Avda. del Conocimiento s/n, 18016, Armilla, Granada.		
Phone number	958241000 (ext:20343)	E-mail	mrivera@ugr.es
Current position	Profesora Titular de Universidad	From	31/12/2021
Key words	Genetics, Candidate genes, Obesity, BMI, Psychiatry, Depression, Physical disorders, GWAS, Gene-environment interactions		

A.2. Education

Degree/PhD	University	Year
Bachelor in Biology	University of Granada	2003
PhD in Genetics (Doctor Europeus*)	University of Granada	2008

**Summa Cum Laude unanimously*

A.3. JCR articles, h Index, thesis supervised…

- Papers in impact journals (source: JCR): **80** (last 5 years: **43**)
- H-Index (source: Scopus): **38**
- Papers within quartile 1 in category (source: JCR): **67** (last 5 years: **38**)
- Papers within decile 1 in category (source: JCR): **50** (last 5 years: **29**)
- Citations (source: scopus): **7837**
- Master Theses supervised: **16** (last 5 years: **7**). Ongoing: **1**
- PhD Theses supervised: **4** (last 5 years: **2**). Ongoing: **2**

Part B. CV SUMMARY

My research career has been mainly devoted to the study of the genetics of psychiatric disorders, and most recently to their comorbidity with medical conditions. I graduated in Biology at the University of Granada (UGR) in 2003. Shortly after, I undertook a PhD supported by a FPU fellowship to study candidate genes and gene-environment interactions in depression. I obtained my PhD degree in Biology in June 2008 with the highest qualification (Summa Cum Laude, Doctor Europeus), and subsequently the Doctorate Special Prize in Health Sciences. In 2009, I won a prestigious Marie Curie Intra-European Fellowship (IEF) from the European Union to join Prof. McGuffin´s group at King´s College London. I commenced and led a new research line investigating the relationship between psychiatric disorders and obesity-related diseases. After this fellowship, I was hired in the group of Prof McGuffin to continue working in the same research line. In July 2012, I got a Postdoctoral Fellowship from the NIHR Biomedical Research Centre (BRC) for Mental Health. The last year of my stage at King´s College (KCL) I got a promotion to academic Lecturer. The main results from my postdoctoral period were published in the top journals of Psychiatry area. After nearly six years at KCL, in 2014 I returned to Spain with the support of a new Marie Curie IEF Fellowship under the Top Researchers Categories: Experienced Researcher; and was awarded a project as a Principal Investigator funded by the International Brain & Behavior Research Foundation (NARSAD). I continued and initiated at the UGR the research line in which I was working since I started my postdoctoral position at KCL focused on the study of the relationship between mental and physical disorders. In 2016, I obtained a 'Ramón y Cajal' grant at the Department of Biochemistry and Molecular Biology II (UGR). This project, in which I am principal investigator, has recently received funding from the Spanish Government through ´Instituto de Salud Carlos III. Proyecto FIS (PI18/00238)´. My research experience is supported by 80 publications (JCR), 67 of them in the first quartile of the area, and 50 in the first decile. My h-index is 38 and my articles have received 7837 citations. My research results have been presented in more than 100 communications to national and international conferences, and I have been a guest speaker on several occasions. I have participated in more than 20 research projects nationally and internationally funded. I

have coordinated and managed my own projects as a principal investigator funded by the European Union, the NIHR BRC, NARSAD and the Spanish Government. Regarding my international projection, it should be noted that I am member of the Psychiatric Genomics Consortium, BRIDGES Bipolar Sequencing Consortium, Depression Consortium and Honorary Lecturer at KCL, and that I collaborate with several research groups at different international centres.

Part C. RELEVANT MERITS
C.1. Publications (including books)

Selected impact papers

1. Zarza-Rebollo JA, Molina E, López-Isac E, *et al*, & **Rivera M**. (2022). Interaction Effect between Physical Activity and the BDNF Val66Met Polymorphism on Depression in Women from the PISMA-ep Study. Int J Environ Res Public Health. 19(4):2068. doi: 10.3390/ijerph19042068. **IF (JCR-2021): 4,614. Q1: 45/182.**
2. Anguita-Ruiz A, Zarza-Rebollo JA, Pérez-Gutiérrez AM, *et al*, & **Rivera M**. (2022). Body mass index interacts with a genetic-risk score for depression increasing the risk of the disease in high-susceptibility individuals. Transl Psychiatry. 24;12(1):30. doi: 10.1038/s41398-022-01783-7. **IF (JCR-2021): 7.989. Q1: 27/155.**
3. Zarza-Rebollo JA, Molina E, **Rivera M.** (2021). The role of the *FTO* gene in the relationship between depression and obesity. A systematic revie. Neurosci Bioehav Rev. 2021 May 19; 127:630-637. doi: 10.1016/j.neubiorev.2021.05.013. **(IF: 9,052). Q1: 3/53 (D1).**
4. **Rivera M***, Porras-Segovia A, Rovira P, *et al*. (2019). Associations of major depressive disorder with chronic physical conditions, obesity and medication use: Results from the PISMA-ep study. European Psychiatry 2019 Aug;60:20-27. doi: 10.1016/j.eurpsy.2019.04.008. **(IF: 3,941). Q1: 24/142. *Corresponding author.**
5. Porras-Segovia, **Rivera M***, Molina E, Lopez-Chaves, Gutiérrez B, Cervilla J. (2019). Physical exercise and body max index as correlates of major depressive disorder in community-dwelling adults: results from the PISMA-ep study. Journal of affective disorders. 2019. 251:263-269. doi: 10.1016/J.JAD.2019.01.050. **(IF: 4,084). Q1: 21/142. *Corresponding author.**
6. Anttila V, Bulik-Sullivan B, Finucane HK, *et al*, **Rivera M**, *et al* & Murray R. (2018). Analysis of shared heritability in common disorders of the brain. Science. 22;360(6395). doi: 10.1126/science.aap8757. **(IF: 41,063). Q1: 2/69 (D1).**
7. Wray NR, Ripke S, Mattheisen M, et al, **Rivera M**, et al & Sullivan PF. (2018). Genomewide association analyses identify 44 risk variants and refine the genetic architecture of major depression. Nature Genetics, 2018 May;50(5):668-681. doi: 10.1038/s41588-018-0090-3. **(IF: 25,455). Q1: 2/174 (D1).**
8. **Rivera M***, Locke AE, Corre T, Czamara D, *et al*. (2017). Interaction between the FTO gene, body mass index and depression: meta-analysis of 13701 individuals. The British Journal of Psychiatry. 2017 Aug;211(2):70-76. doi: 10.1192/bjp.bp.116.183475. **(IF: 5,867). Q1: 10/142 (D1). *Corresponding author.**
9. Rucker JJ, Tansey KE, **Rivera M**, *et al*. (2016). Phenotypic Association Analyses With Copy Number Variation in Recurrent Depressive Disorder. Biological Psychiatry. 2016 Feb 15;79(4):329-36. doi: 10.1016/j.biopsych.2015.02.025. Epub 2015 Feb 25. **(IF: 11.412). Q1: 6/142. (D1).**
10. McGuffin P, **Rivera M**. The interaction between stress and genetic factors in the etiopathogenesis of depression. (2015). World Psychiatry. 2015 Jun;14(2):161-3. doi: 10.1002/wps.20230. **(IF: 30). Q1: 1/142. (D1).**
11. **Rivera M***, McGuffin P. (2015). The successful search for genetic loci associated with depression. Genome Medicine. 2015 Aug 25;7:92. doi: 10.1186/s13073-015-0217-4. **(IF: 5.846). Q1: 17/166. *Corresponding author.**
12. Hung CF, Breen G, Czamara D, *et al*, & **Rivera M**. (2015). A genetic risk score combining 32 SNPs is associated with body mass index and improves obesity prediction in people with major depressive disorder. BMC Medicine. Apr 17;13:86. doi: 10.1186/s12916-015-0334-3. **(IF:9,088). Q1: 10/155. (D1).**

13. Levinson DF, Mostafavi S, Milaneschi Y, **Rivera M**, *et al*. (2014). Genetic studies of major depressive disorder: Why are there no GWAS findings, and what can we do about it? Biological Psychiatry. 1;76(7):510-2. **(IF: 11,984). Q1: 6/142. (D1).**
14. Hung C[+], **Rivera M**[+]*, Craddock N, *et al*. [+]Joint first author. (2014). Relationship between obesity and the risk of clinically significant depression: Mendelian randomisation study. The British Journal of Psychiatry. 2014 Jul;205(1):24-8. doi: 10.1192/bjp.bp.113.130419. Epub 2014 May 8. **(IF: 5,867). Q1: 10/140. (D1). [+]Shared first authors. *Corresponding author.**
15. Samaan Z, Anand S, Zhang X, Desai, D, **Rivera M**, *et al*. (2013). The protective effect of the obesity-associated rs9939609 A variant in fat mass- and obesity-associated gene on depression. Molecular Psychiatry, 2013 Dec;18(12):1281-6. doi: 10.1038/mp.2012.160. Epub 2012 Nov 20. **(IF: 15.147). Q1: 5/290 (D1).**
16. **Rivera M***, Cohen-Woods S, Kapur K, *et al*. (2012). Depressive disorder moderates the effect of the FTO gene on body mass index. Molecular Psychiatry, Vol 17 (6): 604-611. doi: 10.1038/mp.2011.45. **(IF: 14.897). Q1: 5/290 (D1). *Corresponding author.**
17. **Rivera M**, Gutiérrez B, Molina E, *et al*. (2008). High-activity variants of the uMAOA polymorphism increase the risk for depression in a large primary care sample. American Journal of Medical Genetics. Part B (Neuropsychiatric Genetics) 150B: 395-402. **(IF: 3.932). Q1: 23/101.**

Books

1. **Rivera M**. (2013). Towards 2020 the genetic influence on obesity and associated disease (Euroscicon Meeting Reports) [Kindle Edition]. Astrid Englezou (Editor), Shara Cohen (Editor). Publisher: Honnao. ASIN: B00HLIZ1B2.

Books chapters

1. Rodriguez -Hidalgo M, Agudo M, *et al* & **Rivera M**. Relación entre el gen *FTO*, índice de masa corporal y depresión. Encuentros en Neurociencias Vol. V. pp:35-49. Editorial: Universidad de Granada.
2. **Rivera M**, Rovira P, Gutierrez B, et al. (2017). The BDNF VAL66MET genetic polymorphism does not modify the association between body mass index (BMI) and major depression. Encuentros en Neurociencias. Vol IV. pp: 205 – 224. Editorial: Universidad de Granada. ISBN: 978 -84 -697 -8282-8.
3. Ching -López A, **Rivera, M**, Cervilla, J, *et al*. (2015). Genes del eje hipotalamico-hipofisario -adrenal de la neurotransmisión serotoninérgica se asocian con depresión mayor. Encuentros en Neurociencias Vol. III. pp: 59-78. Editorial: UGR. ISBN: 978 -84 -338 -589
4. Iyegbe C, Modinos G, **Rivera M**. (2012). Old obstacles on new horizons: the challenge of implementing Gene x Environment discoveries in Schizophrenia research, pp:77 -106. "Public Health - Epidemiology, Environmental and System Issues" (working title), ISBN 979 -953-307-884 -6, (InTech Publishing).

C.2. Research projects and grants

1. ***Title:*** Estudio de la relación genética entre depresión, obesidad y ejercicio físico utilizando nuevas aproximaciones metodológicas. ***Funding entity:*** Proyectos de I+D+i en el marco del Programa Operativo FEDER. (B-CTS-256-UGR20). ***PI:*** Margarita Rivera. ***Duration:*** 01/01/2022 - 31/12/2023. ***Amount:*** 20,000 €.
2. ***Title:*** Análisis de asociación del genoma completo (GWAS) y secuenciación de genes candidatos para depresión y obesidad en una muestra epidemiológica española. Estudio PISMA-Med. ***Funding entity:*** Ministerio de Ciencia, Innovación y Universidades. Instituto de Salud Carlos III. Proyecto FIS (PI18/00238). ***PI:*** Margarita Rivera. ***Duration:*** 01/01/2019 -30/06/2023. ***Amount:*** 123,420 €.
3. ***Title:*** Factores genéticos y ambientales de enfermedades médicas comórbidas en los principales trastornos psiquiátricos. ***Funding entity:*** Ministerio de Economía y Competitividad. Programa Ramón y Cajal. ***PI:*** Margarita Rivera. ***Duration:*** 01/09/2016 - 01/09/2021. ***Amount:*** 40,000 €.
4. ***Title:*** Genetics and environmental determinants of comorbid medical conditions in Depression. ***Funding entity:*** Brain and Behavior Research Foundation (NARSAD). NARSAD Young Investigator Grant. ***PI:*** Margarita Rivera. ***Duration:*** 15/01/2015 - 15/01/2019. ***Amount:*** $65,000.
5. ***Title:*** Genetic and Environmental Determinants of Comorbid Medical Conditions in Major Psychiatric Disorders: The Med-Psych Study. ***Funding entity:*** European Union. 7th Framework Programme (FP7) (FP/-PEOPLE-2013). ***PI:*** Margarita Rivera. ***Duration:*** 01/09/2014 - 01/09/2016. ***Amount:*** 223,002.20 €.

6. ***Title:*** Depression, Genomics and Biomarkers. ***Funding entity:*** NIHR Biomedical Research Centre. ***PI:*** Margarita Rivera. ***Duration:*** 01/09/2012- 31/08/2014. ***Amount:*** £63,000.
7. ***Title:*** Professionals, patients and genetic factors and their interaction associated with therapeutic success of an intervention to prevent major depression in primary care. The Predict-Eval study. ***Funding entity:*** Convocatoria Proyectos de Investigación en Salud del Instituto de Salud Carlos III (FIS). PI12/02755. ***PI:*** Juan A. Bellón Saameño. ***Duration:*** 01/01/2013- 01/01/2015. ***Amount:*** 99,820 €. ***Type of participation:*** PI of the Genetic study.
8. ***Title:*** A genome wide association study of the relationship between BMI, type 2 diabetes and recurrent depression. ***Funding entity:*** European Union. 7th Framework Programme (FP7) (FP/-PEOPLE-2008). ***PI:*** Margarita Rivera. ***Duration:*** 02/03/2009-01/03/2011. ***Amount:*** 171.867,6€.
9. ***Title:*** Asociación de síndromes clínicos en psicosis con factores genéticos, infecciosos y ambientales. ***Funding entity:*** Consejería Consejería de Innovación (Junta de Andalucía). Proyecto de Investigación de Excelencia. P06-CTS-01686. ***PI:*** Jorge Cervilla. ***Duration:*** 01/01/2007-31/12/2009. ***Amount:*** 215,000 €. ***Type of participation:*** Researcher.
10. ***Title:*** Interacción genético-ambiental y riesgo para depresión en la comunidad: un estudio prospectivo de cohorte (Estudio PREDICT-Gene). ***Funding entity:*** Ministerio de Educación y Ciencia. SAF2006/07 192. ***PI:*** Jorge Cervilla. ***Duration:*** 01/01/2006- 31/12/2008. ***Amount:*** 60,000 €. ***Type of participation:*** Researcher.

C.3. Contracts

2014-2016 Senior Marie Curie Researcher (IEF) Universidad de Granada.
2013-2014 Lecturer (Assistant Professor) King´s College London.
2012-2013 Senior Postdoctoral Researcher King´s College London.
2011-2012 NIHR BRC Postdoctoral Researcher King´s College London.
2009-2011 Marie Curie Postdoctoral Researcher (IEF) King´s College London.
2008-2009 Postdoctoral Researcher (University of Granada).

C.5. Fellowships

2014: Postdoctoral Fellowship *Marie Curie Intra-European Fellowships for Career Development.*
2012: Postdoctoral Fellowship from *NIHR Biomedical Research Centre (BRC).*
2009: Postdoctoral Fellowship *Marie Curie Intra-European Fellowships for Career Development.*
2007: Predoctoral Travel Fellowship funded by the Spanish Ministry.
2006: Predoctoral Travel Fellowship funded by the Spanish Ministry.
2004: Predoctoral FPU Fellowship funded by Ministerio de Educación y Ciencia.
2002: Collaboration Fellowship funded by the Spanish Ministry.

C.6. Awards

2013: BRC Travel Award. 2012: BRC Nucleus Travelling Fellowship Scheme Award. 2010: Associate Member of the European College of Neuropsychopharmacology. 2008: Premio Extraordinario de Doctorado de la Universidad de Granada.

C.7. Referee

Social Science Research; Science (junto con Professor McGuffin); Psychiatric Genetics; New England Journal of Medicine; Biological Psychiatry, Scientific Reports, The Journal of Clinical Psychiatry.

C.8. Memberships of scientific societies, International Committees and Research Groups

-Psychiatric Genomics Consortium (PGC).-BRIDGES Bipolar Sequencing Consortium.-BRC Bioresource and Genomics and Biomarkers Theme. -BRC Training & Capacity Development Board. -Training Committee of the BRC Bioresource.-Depression Consortium. -Centre for Biomedical Research on Mental Health (CIBERSAM).-Associate and Ordinary member of the European College of Neuropsychopharmacology.-Member of the International Society of Psychiatric Genetics (ISPG), The American Society of Human Genetics.-Member of the Organizing Committee of two WPA Thematic Conferences (Spain, 2008 and 2012).

C.9. Institutional responsibilities

-Secretaria del Programa de Doctorado de Biomedicina de la Universidad de Granada, desde el 11/07/2017.
- Miembro de la Comisión Académica del Programa de Doctorado de Biomedicina de la Universidad de Granada, desde el 21/07/2017.
-Miembro de la Comisión de Garantía de Calidad del Programa de Doctorado de Biomedicina de la Universidad de Granada, desde el 11/07/2018.