MINISTERIO DE CIENCIA E INNOVACIÓN

Cofinanciado por la Unión Europea

AGENCIA ESTATAL DE INVESTIGACIÓN

**CURRICULUM VITAE ABREVIADO (CVA)**

| CV date | 08/03/2023 |
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## Part A. PERSONAL INFORMATION

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|---|---|---|---|
| First name | José Luis | | |
| Family name | Nieto González | | |
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*(*) Mandatory*

### A.1. Current position

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|---|---|---|
| Position | Associate Professor | |
| Initial date | 21/07/2021 | |
| Institution | Universidad de Sevilla | |
| Department/Center | Fisiología Médica y Biofísica | Instituto de Biomedicina de Sevilla |
| Country | Spain | |
| Key words | In vitro electrophysiology; synapse; neurodegeneration; neuromodulation | |

### A.2. Previous positions (research activity interuptions, art. 14.2.b))

| Period | Position/Institution/Country/Interruption cause |
|---|---|
| 28/12/2016 to 20/07/2021 | Profesor Contratado Doctor/Spain |
| 13/09/2016 to 27/12/2016 | Profesor Contratado Doctor interino/Spain |
| 09/06/2016 to 30/06/2016 | Profesor Sustituto Interino/Spain |
| 01/01/2016 to 08/06/2016 | Profesor Ayudante Doctor Interino/Spain |
| 01-01-2015 to 31-12-2015 | Contratos Doctores acuerdo Consejo Gobi./Spain |
| 01-01-2014 to 31-12-2014 | Contratos Doctores acuerdo Consejo Gobi./Spain |
| 01-01-2011 to 31-12-2013 | Researcher (Juan de la Cierva Program) |

### A.3. Education

| PhD, Licensed, Graduate | University/Country | Year |
|---|---|---|
| Doctor by the University of Seville | University of Seville | 2007 |
| Degree in Biological Sciences | University of Seville | 2002 |

## Part B. CV SUMMARY *(max. 5000 characters, including spaces)*

My research career is based mainly on the functional studies of neurons through electrophysiological analysis. Since I started my career, I has been fascinated with the electrophysiological techniques and the study of functional properties of neurons at the single-neuron and network level. After completing the PhD, I decided to go abroad (Denmark) to continue with my formation in state-of the-art electrophysiological techniques in combination with transgenic mice and neurodegenerative and neuropsychiatric disease mouse model. My knowledge obtained during my career is not only restricted to electrophysiological analysis, I have also acquired valuable experience in techniques that support the functional studies, e.g. three-dimensional reconstruction of neurons, immunohistochemistry, optical and confocal microscopy, organotypic culture, etc.

During my research career, I have participated in 12 research projects (6 National, 1 European and 5 Autonomic).
I have been principal investigator in 4 research projects (2 national, 3 autonomic)
I have published a total number of 24 publications with the following details:

Total number of WOS citations: 682
Average number of WOS citations: 28.42
Total number of publications in Q1: 19 (12 in D1)

Total number of publications in Q2: 4
Total number of publications not indexed in JCR: 1
H index: 15

I have presented more than 50 communications in national and international meetings.

I have been reviewer of journals like Molecular Brain, Brain Research, British Journal of Pharmacology, J. Neurosci.
I am reviewing editor of Frontier in Synaptic neuroscience and Frontier in Cellular Neuroscience.

In terms of teaching activity, I have taught a total of 10 different undergraduate and postgraduate subjects in the area of Physiology since the 2005-2006 academic year with more than 1200 hours taught.
I am coordinator of the subject General Physiology of the Degree in Biomedicine since 2015-2016 academic year.
I am coordinator of the Master in Biomedical Research of the University of Seville since 2022.
I have co-directed 1 doctoral thesis and I have supervised 8 research works (TFG and TFM).
At present, I am co-directing a 3 doctoral thesis.

I have recognized 3 “research six-year term” (sexenio) and 2 “teaching six-year term” (quinquenio).

**Part C. RELEVANT MERITS** *(sorted by typology)*

***C.1.*** **Publications** *(see instructions)*

**1. Scientific paper. Nieto-González JL***, Gómez-Sánchez L, Mavillard F, Linares-Clemente P, Rivero-Mena MC, Valenzuela-Villatoro M, Muñoz-Bravo JL, Pardal R, Fernández-Chacón R*. (9/1). (2019). Loss of postnatal quiescence of neural stem cells through mTOR activation upon genetic removal of Cysteine String Protein-α (CSP-α). PNAS, 16;116(16):8000-8009.
*Corresponding author.

**2. Scientific paper.** Servián-Morilla E, Cabrera-Serrano M, Rivas-Infante E, Carvajal A, Lamont PJ, Pelayo-Negro AL, Ravenscroft G, Junckerstorff R, Dyke JM, Fletcher S, Adams AM, Mavillard F, Fernández-García MA, **Nieto-González JL**, Laing NG, Paradas C. (16/14). (2019). Altered myogenesis and premature senescence underlie human TRIM32-related myopathy. ACTA NEUROPATHOL COMMUN. 7(1):30.

**3. Scientific paper.** Parras A, Anta H, Santos-Galindo M, Swarup V, Elorza A, **Nieto-Gonzalez JL**, Picó S, Hernández I, Díaz-Hernández J, Belloc E, Rodolosse A, Parikshak N, Peñagarikano O, Fernández-Chacón R, Irimia M, Navarro P, Geschwind D, Méndez R, Lucas JJ (19/6). 2018. Autism-like phenotype and risk gene-RNA deadenylation by CPEB4 mis-splicing. NATURE 560(7719):441-446.

**4. Scientific review paper. 6. Nieto-González JL**, Fernández-Chacón R. (1/2). 2017. Toward the Inner Nanostructure of a Secretory Vesicle. ACS NANO 11(4):3429-3432.

**5. Scientific paper.** Servián-Morilla E, Takeuchi H, Lee TV, Clarimon J, Mavillard F, Area-Gómez E, Rivas E, **Nieto-González JL**, Rivero MC, Cabrera-Serrano M, Gómez-Sánchez L, Martínez-López JA, Estrada B, Márquez C, Morgado Y, Suárez-Calvet X, Pita G, Bigot A, Gallardo E, Fernández-Chacón R, Hirano M, Haltiwanger RS, Jafar-Nejad H, Paradas C (24/8). 2016. A POGLUT1 mutation causes a muscular dystrophy with reduced Notch signaling and satellite cell loss. EMBO MOLECULAR MEDICINE 8:1289-1309.

**6. Scientific paper.** Glerup S, Bolcho U, Mølgaard S, Bøggild S, Vaegter CB, Smith AH, **Nieto-Gonzalez JL**, Ovesen PL, Pedersen LF, Fjorback AN, Kjolby M, Login H, Holm MM, Andersen

OM, Nyengaard JR, Willnow TE, Jensen K, Nykjaer A. (18/7). 2016. SorCS2 is required for BDNF dependent plasticity in the hippocampus. MOLECULAR PSYCHIATRY 21:1740-1751.

**7. Scientific paper. Nieto-Gonzalez JL***, Holm MM, Vardya I, Christensen T, Wiborg O, Jensen K. (6/1). 2015. Presynaptic plasticity as a hallmark of rat stress susceptibility and antidepressant response. PLOS ONE 10:e0119993. * Corresponding author.

**8. Scientific paper.** Rabaneda LG, Robles-Lanuza E, **Nieto-González JL**, Scholl FG. (4/3). 2014. Neurexin dysfunction in adult neurons results in autistic-like behavior in mice. CELL REP. 8(2):338-46.

**9. Scientific paper. Nieto-Gonzalez JL***, Jensen K (2/1). 2013. BDNF Depresses Excitability of Parvalbumin-Positive Interneurons through an M-Like Current in Rat Dentate Gyrus. PLOS ONE. 8-6. ISSN 1932-6203. * Corresponding author.

**10. Scientific paper.** Rozas JL, Gómez-Sánchez L, Mircheski J, Linares-Clemente P, **Nieto-González JL**, Vázquez ME, Luján R, Fernández-Chacón R. (8/5). 2012. Motorneurons Require Cysteine String Protein-alpha to Maintain the Readily Releasable Vesicular Pool and Synaptic Vesicle Recycling. NEURON 74:151-165.

**C.2. Congress**

1. Emilio Martinez Marquez; Santiago Reyes Leon; Guadalupe Asensio Gomez; **Jose Luis Nieto Gonzalez**; Pablo Garcia-Junco Clemente. Functional analysis of cholinergic modulation of chandelier cells from single-cell to circuit. XIX Congreso de la SENC. SOCIEDAD ESPAÑOLA DE NEUROCIENCIA. 2021. Spain. Oral Communication

2. Santiago Reyes Leon; Emilio Martinez Marquez; Guadalupe Asensio Gomez; Pablo Garcia-Junco Clemente; **Jose Luis Nieto Gonzalez**. Increased excitability of parvalbumin-positive interneurons in premotor cortical area in a mouse model of obsessive-compulsive disorder. XIX Congreso de la SENC. SOCIEDAD ESPAÑOLA DE NEUROCIENCIA. 2021. Spain. Poster.

3. **José Luis Nieto González**; Leonardo Gómez Sánchez; Fabiola Mavillard Saborido; Mari Carmen Rivero Mena; Pedro Linares Clemente; Ricardo Pardal Redondo; Rafael Fernández. Chacón csp-α maintains the quiescence of radial-glia like stem cells in postnatal neurogenesis. 1st Annual RENA Symposium. Spain. Oral Communication

4. **Nieto-Gonzalez JL**. CSP-alpha Is Essential to Maintain the Quiescence of Radial-Glia-Like Stem Cells in Adult Neurogenesis.Keystone Symposia on Molecular and Cellular Biology: Adult Neurogenesis 2014. Stockholm, Suecia. Oral Communication

5. **Nieto-Gonzalez JL**. Synaptic vesicle cycle imaging in presynaptic degeneration. Doing Biology with Light. 2013. Santa Cruz de Tenerife, Canarias, España. Invited talk.

**C.3. Research projects**

**1.** PID2021-123840NB-I00, Papel de la neuromodulación colinérgica sobre las células chandelier en un modelo de ratón para el trastorno obsesivo-compulsivo. Ministerio de Ciencia e Innovación. Plan Estatal 2021-2023 - Proyectos Investigación No Orientada. PIs Pablo García-Junco Clemente / **José Luis Nieto González.** 2012/2025. 169.400 €.

**2.** PGC2018-095656-B-I00, Análisis Funcional in Vivo de la Neuromodulación Colinérgica de Células Chandelier desde Célula única hasta Nivel de Circuito. Ministerio de Ciencia, Innovación y Universidades. Plan Estatal 2017-2020 Generación Conocimiento - Proyectos I+D+i. PIs Pablo García-Junco Clemente / **José Luis Nieto González.** 2019/2021. 169.400 €.

**3.** US-1264432. Functional Study of Neural Circuits in Premotor Cortical Area in a Mouse Model of Obsessive-Compulsive Disorder. Junta de Andalucía (Consejería de Economía y Conocimiento). Proyectos I+D+i FEDER Andalucía 2014-2020. PIs **José Luis Nieto González** / Pablo García-Junco Clemente. 2020-2022. 90.000 €.

**4.** PI-0085-2016, Papel causal y modificador de la vía de señalización Notch en las distrofias musculares por déficit de proteína distrofina y TRIM32. Consejería de Salud de la Junta de Andalucía. Subvenciones para la financiación de la i+d+i biomédica y en ciencias de la salud en Andalucía. **PI José Luis Nieto González**. (Universidad de Sevilla). 2016-2018. 50.000 €.

**5.** PI-0017-2014, Estudio Terapéutico Preclínico en Un Modelo Murino Knock-In de Distrofia Muscular Asociado A Una Mutación Humana en el Gen Poglut1. Consejería de Salud de la Junta de Andalucía. Convocatoria de ayudas para la financiación de proyectos de investigación biomédica y en ciencias de la salud en Andalucía para el año 2014. **PI José Luis Nieto González**. (Universidad de Sevilla). 01/08/2015- 10/01/2017. 32.140 €.

**C.4. Contracts, technological or transfer merits**

**1.** Convocatoria para la contratación de personal de apoyo a la i+d+i. plan de empleo juvenil, fase 4 (2020). Marco del Sistema Nacional de Garantía Juvenil y del Programa Operativo de Empleo Juvenil. Organismo contratante: Universidad de Sevilla. Solicitud con contrato asignado: José Luis Nieto González.