



**Ministerio de Economía y
Competitividad
Secretaría de Estado de Investigación,
Desarrollo e Innovación**

Currículum Vitae

Name: **José P. López-Atalaya Martínez**

Date: **May 2019**

Surname: López-Atalaya Martínez
DNI: 29072879M Date of birth: 13.08.1974

Name: José Pascual
Gender: Male

Current professional situation

Employing entity: **Agencia Estatal Consejo Superior de Investigaciones Científicas (CSIC)**
Department: **Instituto de Neurociencias (UMH-CSIC)**
Section: Molecular Neurobiology and Neuropathology
Address: Av Ramón y Cajal s/n, 03550, Sant Joan d'Alacant. Alicante. España

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Email: jose.lopezatalaya@csic.es / jose.lopez@umh.es

Unesco code: 249000 – Neurosciences; 241500 – Molecular Biology

Professional category: **Investigador Contratado Doctor Programa “Ramón y Cajal” 2015 (MINIST. CIENCIA, INNOV. Y UNIV.)** / Research Fellow of the “Ramón y Cajal” National Programme 2015 (**MINIST. CIENCIA, INNOV. Y UNIV.**)

Start date: May 2017

Type of contract: Temporary employment (Tenure Track Position)

Dedication regime: Full time

Current line of research

Key words:

Fundamental Research, Mouse Genetics, Animal Models of Disease, Neuroscience, Neuroinflammation, Neurodegenerative diseases, Functional Genomics, Transcriptomics, Epigenomics, Transcriptional regulation.

Summary:

I am currently Principal Investigator of the Cellular Plasticity and Neuropathology Group at Instituto de Neurociencias (UMH-CSIC) in Alicante (Spain) => <http://in.umh-csic.es/grupos-detalle.aspx?grupo=58>

The goal of our lab is to understand how brain's innate immune cells integrate within neural circuits to influence brain function in health and disease. The questions we pursue are grounded in understanding the interplay between brain physiology and the brain's innate immune system, as a central axis controlling homeostasis and disease. Our research is focused in two lines: (1) Understanding integrated brain circuits: we aim to elucidate the roles of neuron-microglia interactions at multiple levels, from synapses to neural circuits, in the control of brain function in health and disease. (2) Investigating cellular plasticity of immune cells of the brain: the ability of innate immune cells of the brain to adopt alternative fates when exposed to different conditions is now emerging as an important process in normal physiology and in disease conditions, such as aging and neurodegenerative diseases. We seek to understand how microglia cells interpret cues from their tissue microenvironment to adopt specialized roles. We have particular interest in unveiling the molecular mechanisms regulating the transitions and maintenance of distinct phenotypic and functional states of brain's innate immune cells.

Our ultimate goal is to develop novel approaches for the treatment of chronic neurodegenerative conditions by modulating immunity and neuroinflammation. We combine animal models of neurodegenerative disease (epilepsy) and neuroinflammation, samples from patients with the associated pathologies, mouse genetics, transcriptomics and epigenetic analyses at cell population and single-cell levels, and state-of-the-art histological, cellular and molecular biology methods and techniques.

Education

University degree	Degree awarding entity	Date of qualification
Licenciatura en Bioquímica	Universidad de Murcia	2002
Grado de Licenciado en Bioquímica (Matrícula de Honor)	Universidad de Murcia	2002
Doctorate	Degree awarding entity	Date of qualification
Aspects Moleculaires et Cellulaires de la Biologie (with Highest Honors)	Université de Caen, Basse-Normandie (FRANCE)	2006

Previous positions and activities

Professional category	Employing entity	Date
Graduate Student Fellow (Alumno Interno)	Universidad de Murcia	Sept 2000 – Sept 2001
Postgraduate Student Fellow (Becario de colaboración)	Universidad de Murcia	Oct 2001 – Dec 2002
PhD Fellow Conseil Régional Basse Normandie	Institut National de la Santé et de la Recherche Médicale (INSERM U919)	Jan 2003 – Mar 2006
Research Associate (Investigador Contratado Doctor)	Universidad Miguel Hernández de Elche (UMH)	Apr 2006 – Dec 2007
Research Fellow Juan de la Cierva 2007 (MINECO)	Consejo Superior de Investigaciones Científicas (CSIC)	Jan 2008 – Dec 2010
Research Associate (Investigador Contratado Doctor)	Consejo Superior de Investigaciones Científicas (CSIC)	Jan 2011 – Jul 2011
Research Fellow JAE-DOC 2010 (CSIC)	Consejo Superior de Investigaciones Científicas (CSIC)	Aug 2011 – Jul 2013
Research Associate (Investigador Contratado Doctor)	Universidad Miguel Hernández de Elche (UMH)	Aug 2013 – Jul 2015
Investigador Principal JIN 2014 – Instituto de Neurociencias (UMH - CSIC)	Consejo Superior de Investigaciones Científicas (CSIC)	Sept 2015 – Mar 2017
Investigador Principal RyC 2015 – Instituto de Neurociencias (UMH - CSIC)	Consejo Superior de Investigaciones Científicas (CSIC)	From May 2017

Language skills

Language	Speaking skills	Listening skills	Writing skills
English	C1	C1	C1
French	C1	C1	C1
Spanish	C1	C1	C1

R&D projects funded through competitive calls of public or private entities

Name of the project: Decoding microglia dynamic heterogeneity and plasticity in neurodegenerative disease (RTI2018-102260-B-I00)

Funding entity: Ministerio de Economía y Competitividad

Entity where project took place: Instituto de Neurociencias (CSIC-UMH)

Start date: 2019 End date: 2021 Total amount: 217.800 €

Principal Investigator: José P. López-Atalaya

Name of the project: Neuronal activity-driven posttranslational modifications of RelA/p65: Role in memory formation, cognitive enhancement and intellectual disability (SAF2014-60233-JIN)

Funding entity: Ministerio de Economía y Competitividad

Entity where project took place: Instituto de Neurociencias (CSIC-UMH)

Start date: 2015 End date: 2018 Total amount: 193.600 €

Principal Investigator: José P. López-Atalaya

Name of the project: Ayudas Incorporación Investigadores Ramón y Cajal (RYC-2015-18056)

Funding entity: Ministerio de Economía, Industria y Competitividad

Entity where project took place: Instituto de Neurociencias (CSIC-UMH)

Start date: 2017 End date: 2022 Total amount: 308.600 €

Principal Investigator: José P. López-Atalaya

R&D non-competitive contracts or projects with public or private entities

Name of the project: DSPA and Blood-Brain Barrier

Funding entity: PAION GmbH (Germany)

Entity where project took place: INSERM U919

Start date: 2005 End date: 2006 Total amount: 70.000 €

Principal Investigators: Denis Vivien and José P. López-Atalaya

Name of the project: Is DSPA an antagonist of tPA for NMDA-receptor signalling?

Funding entity: PAION GmbH (Germany)

Entity where project took place: INSERM U919

Start date: 2004 End date: 2005 Total amount: 100.000 €

Principal Investigators: Denis Vivien and José P. López-Atalaya

Participation in R&D projects funded through competitive calls of public or private entities

Name of the project: Acetylation of neuronal NF- κ B as a primary target of HDAC inhibition in the brain

Funding entity: Brain & Behavior Research Foundation (NARSAD Independent Investigator Grant)

Entity where project took place: Instituto de Neurociencias (CSIC-UMH)

Start date: 2014 End date: 2016 Total amount: 76.000 €

Principal Investigator: Angel Barco

Name of the project: Rubinstein-Taybi syndrome: Molecular etiology, dissection and therapy (PROMETEO/2012/005)
Funding entity: Ministerio de Economía y Competitividad (MINECO)
Entity where project took place: Instituto de Neurociencias (CSIC-UMH)
Start date: 2014 End date: 2016 Total amount: 76.000 €
Principal Investigator: Angel Barco

Name of the project: La acetilación de proteínas como dianas terapéutica en la enfermedad de Huntington (19 NEURO)
Funding entity: Fundació Gent x Gent
Entity where project took place: Instituto de Neurociencias (CSIC-UMH)
Start date: 2012 End date: 2014 Total amount: 45.000 €
Principal Investigator: Angel Barco

Name of the project: Regulación Epigenética de la Respuesta Transcripcional Dependiente de Actividad: Implicaciones en Aprendizaje, Memoria y Retraso Mental (SAF2011-22855)
Funding entity: Ministerio de Economía y Competitividad (MINECO)
Entity where project took place: Instituto de Neurociencias (CSIC-UMH)
Start date: 2012 End date: 2014 Total amount: 250.000 €
Principal Investigator: Angel Barco

Name of the project: EPITHERAPY: An epigenetic approach towards the recovery of neuronal network plasticity and cognitive function in neurodegenerative diseases (SAF2008-03194-E (ERA-Net NEURON-48-030))
Funding entity: Ministerio de Ciencia e Innovacion (MICINN)
Entity where project took place: Instituto de Neurociencias (CSIC-UMH)
Start date: 2009 End date: 2012 Total amount: 210.000 €
Principal Investigator: Angel Barco

Name of the project: Desarrollo y plasticidad en el sistema nervioso (BRAIN) (CONSOLIDER-INGENIO CSD2007-00023)
Funding entity: Ministerio de Ciencia e Innovacion (MICINN)
Entity where project took place: Instituto de Neurociencias (CSIC-UMH)
Start date: 2007 End date: 2012 Total amount: 5.696.000 €
Principal Investigator: Juan Lerma

Name of the project: Alteraciones transcripcionales en modelos animales y celulares de enfermedades neurodegenerativas inducidas por poliglutaminas (Ref. GVPRE/2008/365)
Funding entity: Generalitat Valenciana. Conselleria de Cultura Educació i Esport
Entity where project took place: Instituto de Neurociencias (CSIC-UMH)
Start date: 2009 End date: 2011 Total amount: 22.000 €
Principal Investigator: Luis M. Valor

Name of the project: Expresión génica y modificación de la cromatina dependientes de actividad en procesos de plasticidad sináptica, aprendizaje y memoria (BFU2008-00611)
Funding entity: Ministerio de Ciencia e Innovacion (MICINN)
Entity where project took place: Instituto de Neurociencias (CSIC-UMH)
Start date: 2009 End date: 2011 Total amount: 170.000 €
Principal Investigator: Angel Barco

Name of the project: Alteraciones en la expresión génica dependiente de CREB y sus consecuencias en procesos neurodegenerativos y cognitivos: Desarrollo de nuevas terapias para la enfermedad de Huntington y el síndrome de Rubinstein-Taybi
Funding entity: Fundación Ramón Areces
Entity where project took place: Instituto de Neurociencias (CSIC-UMH)
Start date: 2007 End date: 2010 Total amount: 100.000 €
Principal Investigator: Angel Barco

Name of the project: Chromatin acetylation and CREB-dependent gene expression in Huntington disease pathology (Ref. 063510)
Funding entity: Fundació La Marató de TV3
Entity where project took place: Instituto de Neurociencias (CSIC-UMH)
Start date: 2007 End date: 2010 Total amount: 133.000 €
Principal Investigator: Angel Barco

Name of the project: Histone acetylation in Rubinstein-Taybi patients. Acciones Integradas Italia
Funding entity: Ministerio de Ciencia e Innovacion (MICINN)
Entity where project took place: Instituto de Neurociencias (CSIC-UMH)
Start date: 2008 End date: 2009 Total amount: 11.490 €
Principal Investigator: Angel Barco

Name of the project: Papel de la expresión génica dependiente de CREB en procesos de supervivencia neuronal, plasticidad sináptica, aprendizaje y memoria. CSIC-Proyectos Intramurales Especiales
Funding entity: Consejo Superior de Investigaciones Científicas (CSIC)
Entity where project took place: Instituto de Neurociencias (CSIC-UMH)
Start date: 2008 End date: 2009 Total amount: 30.000 €
Principal Investigator: Angel Barco

Name of the project: Transcriptional Regulation in Synaptic Plasticity, Learning and Memory under Normal and Pathological Situations
Funding entity: European Commission (Marie Curie Excellence Grant). EC FP7.
Entity where project took place: Instituto de Neurociencias (CSIC-UMH)
Start date: 2004 End date: 2008 Total amount: 1.594.911 €
Principal Investigator: Angel Barco

Name of the project: Diagnostic in Molecular Imaging (DiMI). FP6-project DiMI-LSHB-CT-2005-512146-
Funding entity: 6th Framework Programs- Network of Excellence (EU). EC FP6.
Entity where project took place: GIP Cyceron. INSERM U919
Start date: 2005 End date: 2009 Total amount: 150.000 €
Principal Investigator: Denis Vivien

Name of the project: New Strategies in Stroke Treatment
Funding entity: Paul Hamel Foundation
Entity where project took place: GIP Cyceron. INSERM Avenir
Start date: 2004 End date: 2006 Total amount: 250.000 €
Principal Investigator: Denis Vivien

Participation in R&D non-competitive contracts or projects with public or private entities

Name of the project: Neurog nese et Neurod g n rescence

Funding entity: Sanofi-Synthelabo Recherche (FRANCE)

Entity where project took place: CNRS U6551

Start date: 2003 End date: 2003

Total amount: 120.000  

Principal Investigators: Denis Vivien

Results

Industrial and intellectual property

Title registered industrial property: Treatment of neurological of neurodegenerative disorder. WO2011023249 (A1)

Inventors/authors: Karl U Petersen; Denis Vivien; Carine Ali; **Jos  P L pez-Atalaya**; Benoit Roussel; Yannick Hommet

Entity holder of rights: INSERM France

No of application: PCT/EP2010/000543

Date of register: 2011

Conferral date: 2011

Publications, scientific and technical documents

Indicators of research quality and productivity

Publications: **29**

Corresponding Author: **3**

First Author: **11**

First authored reviews: **2**

Book chapters as first author: **1**

Scopus. Author ID: 6507801715 (<http://www.scopus.com/authid/detail.url?authorId=6507801715>)

h-index: **18**

Citations: **>1185** (from 2014: **>628**)

Average citations/year (2014-2018): **116.4**

Google Scholar (<https://scholar.google.com/citations?user=cD-4wI0AAAAJ&hl=en>)

h-index: **19**

Citations: **>1531** (from 2014: **>825**)

Average citations/year (2014-2018): **151,8**

First author publications

Type of production: A = Journal, R = Review, BC = Book chapter

1. Development and maintenance of the brain's immune toolkit: Microglia and non-parenchymal brain macrophages.

Lopez-Atalaya JP, Askew KE, Sierra A, Gomez-Nicola D

Dev Neurobiol. 2018. 78(6):561-579

Special Issues: Roles of Microglia in Neural Development, Plasticity and Disease
Edited by Beth Stevens and Dori Schafer.

Type of production: R

Impact factor: **2.6**

2. Epigenetic Factors in Intellectual Disability: The Rubinstein–Taybi Syndrome as a Paradigm of Neurodevelopmental Disorder with Epigenetic Origin.

Lopez-Atalaya JP, Barco A

Prog Mol Biol Transl Sci. 2014.128:139-176

Epigenetics and Neuroplasticity - Evidence and Debate.
Edited by S. Akbarian and F. Lubin.
Academic Press. Elsevier, 2014. ISBN 978-0-12-800977-2

Type of production: BC

Impact factor: **3.1**

3. Can changes in histone acetylation contribute to memory formation?

Lopez-Atalaya JP, Barco A

Trends in Genetics. 2014. 30(12):529-539

Type of production: R

Impact factor: **10.6**

Featured article

4. Genomic targets, and histone acetylation and gene expression profiling of neural HDAC inhibition

Lopez-Atalaya JP#, Ito S, Valor LM, Benito E, Barco A#

Nucleic Acids Res. 2013. 41(17):8072-84

Type of production: A

Impact factor: **11.6**

Corresponding author

5. Genomic landscape of transcriptional and epigenetic dysregulation in early onset polyglutamine disease

Valor LM*, Guiretti D*, **Lopez-Atalaya JP***, Barco A

J Neurosci. 2013. 33(25):10471-82

Type of production: A

Impact factor: **6.0**

* Co-first authors

6. Histone acetylation deficits in lymphoblastoid cell lines from patients with Rubinstein-Taybi syndrome

Lopez-Atalaya JP*, Gervasini C*, Mottadelli F, Spena S, Piccione M, Scarano G, Selicorni A, Barco A\$, Larizza L\$

J Med Genet. 2012. 49(1):66-74

Type of production: A

Impact factor: **5.8**

* Co-first authors

Featured Article: Malcolm S and Abu-Amero S: F1000Prime Recommendation. In F1000Prime, 16 Jan 2012; DOI: 10.3410/f.13476994.14857122.

7. CBP is required for environmental enrichment-induced neurogenesis and cognitive enhancement

Lopez-Atalaya JP, Ciccarelli A, Viosca J, Jimenez-Minchan M, Canals S, Giustetto M, Barco A

EMBO J. 2011. 30(20):4287-98

Type of production: A

Impact factor: **10.6**

8. Selective boosting of transcriptional and behavioral responses to drugs of abuse by histone deacetylase inhibition

Sanchis-Segura C*, **Lopez-Atalaya JP***, Barco A

Neuropsychopharmacology. 2009. 34(13):2642-54

Type of production: A

Impact factor: **6.5**

* Co-first authors

Featured Article: Adachi M, Monteggia LM. Synergistic interactions between histone seacetylase inhibitors and drugs of abuse. *Neuropsychopharmacology* (2009) 34, 2619–2620.

9. Toward safer thrombolytic agents in stroke: molecular requirements for NMDA receptor-mediated neurotoxicity

Lopez-Atalaya JP#, Roussel BD, Levrat D, Parcq J, Nicole O, Hommet Y, Benchenane K, Castel H, Leprince J, To Van D, Bureau R, Rault S, Vaudry H, Petersen KU, Santos JS, Ali C, Vivien D#

J Cereb Blood Flow Metab. 2008. 28(6):1212-21

Type of production: A

Impact factor: **6.0**

Corresponding author

10. Recombinant *Desmodus rotundus* salivary plasminogen activator crosses the blood-brain barrier through a low-density lipoprotein receptor-related protein-dependent mechanism without exerting neurotoxic effects

Lopez-Atalaya JP#, Roussel BD, Ali C, Maubert E, Petersen KU, Berezowski V, Cecchelli R, Orset C, Vivien D#

Stroke. 2007. 38(3):1036-43

Type of production: A

Impact factor: **6.0**

Corresponding author

11. Arginine 260 of the amino-terminal domain of NR1 subunit is critical for tissue-type plasminogen activator-mediated enhancement of N-methyl-D-aspartate receptor signaling

Fernandez-Monreal M*, **Lopez-Atalaya JP***, Benchenane K, Cacquevel M, Dulin F, Le Caer JP, Rossier J, Jarrige AC, Mackenzie ET, Colloc'h N, Ali C, Vivien D

J Biol Chem. 2004. 279(49):50850-6

Type of production: A

Impact factor: **4.0**

* Co-first authors

Co-authored publications

12. Cbp-dependent histone acetylation mediates axon regeneration induced by environmental enrichment in rodent spinal cord injury models.

Hutson TH, Kathe C, Palmisano I, Bartholdi K, Hervera A, De Virgiliis F, McLachlan E, Zhou L, Kong G, Barraud Q, Danzi MC, Medrano-Fernandez A, **Lopez-Atalaya JP**, Boutillier AL, Sinha SH, Singh AK, Chaturbedy P, Moon LDF, Kundu TK, Bixby JL, Lemmon VP, Barco A, Courtine G, Di Giovanni S.

Sci Transl Med. 2019. 11(487),eaaw2064.

Type of production: A

Impact factor: **16.8**

13. Loss of Kdm5c Causes Spurious Transcription and Prevents the Fine-Tuning of Activity-Regulated Enhancers in Neurons.

Scandaglia M, **Lopez-Atalaya JP**, Medrano-Fernandez A, Lopez-Cascales MT, Del Blanco B, Lipinski M, Benito E, Olivares R, Iwase S, Shi Y, Barco A

Cell Rep. 2017. 21(1):47-59

Type of production: A

Impact factor: **8.3**

14. Lack of IL-1R8 in neurons causes hyperactivation of IL-1 receptor pathway and induces MECP2-dependent synaptic defects.

Tomasoni R, Morini R, **Lopez-Atalaya JP**, Corradini I, Canzi A, Rasile M, Mantovani C, Pozzi D, Garlanda C, Mantovani A, Menna E, Barco A, Matteoli M

eLife. 2017. pii: e21735

Type of production: A

Impact factor: **7.7**

15. Specific promoter deacetylation of histone H3 is conserved across mouse models of Huntington's disease in the absence of bulk changes.

Guiretti D, Sempere A, **Lopez-Atalaya JP**, Ferrer-Montiel A, Barco A, Valor LM

Neurobiol Dis. 2016. 89:190-201

Type of production: A

Impact factor: **4.9**

16. Blocking miRNA biogenesis in adult forebrain neurons enhances seizure susceptibility, fear memory, and food intake by increasing neuronal responsiveness

Fiorenza A, **Lopez-Atalaya JP**, Rovira V, Scandaglia M, Geijo-Barrientos E, Barco A

Cereb Cortex. 2016. 26(4):1619-33

Type of production: A

Impact factor: **8.3**

17. Brain size regulation by cbp haploinsufficiency evaluated by in-vivo MRI-based volumetry

Ateca-Cabarga JC, Cosa A, Pallares V, **Lopez-Atalaya JP**, Barco A, Canals S, Moratal D

Scientific reports. 2015. 5:16256

Type of production: A

Impact factor: **5.6**

18. Loss of neuronal 3D chromatin organization causes transcriptional and behavioural deficits related to serotonergic dysfunction

Ito S*, Magalska A*, Alcaraz-Iborra M, **Lopez-Atalaya JP**, Rovira V, Contreras-Moreira B, Lipinski M, Olivares R, Martinez-Hernandez J, Ruszczycki B, Lujan R, Geijo-Barrientos E, Wilczynski G, Barco A

Nature Communications. 2014. Jul 18;5:4450

Type of production: A

Impact factor: **11.5**

19. Histone H3 lysine methylation in cognition and intellectual disability disorders

Parkel S, **Lopez-Atalaya JP**, Barco A

Learning & Memory. 2013. 20(10):570-9

Type of production: R

Impact factor: **3.7**

20. Lysine acetyltransferases CBP and p300 as therapeutic targets in cognitive and neurodegenerative disorders

Valor LM, Viosca J, **Lopez-Atalaya JP**, Barco A

Curr Pharm Des. 2013. 19(28):5051-64

Type of production: R

Impact factor: **3.5**

21. Syndromic features and mild cognitive impairment in mice with genetic reduction on p300 activity: Differential contribution of p300 and CBP to Rubinstein-Taybi syndrome etiology

Viosca J, **Lopez-Atalaya JP**, Olivares R, Eckner R, Barco A

Neurobiol Dis. 2010. 37(1):186-94

Type of production: A

Impact factor: **5.1**

22. Hunting for synaptic tagging and capture in memory formation

Viosca J, Jancic D, **Lopez-Atalaya JP**, Benito E

J Neurosci. 2007. 27(47):12761-3

Type of production: R

Impact factor: **6.3**

23. Anti-NR1 N-terminal-domain vaccination unmasks the crucial action of tPA on NMDA-receptor-mediated toxicity and spatial memory

Benchenane K, Castel H, Boulouard M, Bluthe R, Fernandez-Monreal M, Roussel BD, **Lopez-Atalaya JP**, Butt-Gueulle S, Agin V, Maubert E, Dantzer R, Touzani O, Dauphin F, Vivien D, Ali C

J Cell Sci. 2007. 120(Pt 4):578-85

Type of production: A

Impact factor: **5.4**

24. Tissue-type plasminogen activator rescues neurones from serum deprivation-induced apoptosis through a mechanism independent of its proteolytic activity

Liot G, Roussel BD, Lebeurrier N, Benchenane K, **Lopez-Atalaya JP**, Vivien D, Ali C

J Neurochem. 2006. 98(5):1458-64

Type of production: A

Impact factor: **4.3**

25. The brain-specific tissue-type plasminogen activator inhibitor, neuroserpin, protects neurons against excitotoxicity both in vitro and in vivo

Lebeurrier N, Liot G, **Lopez-Atalaya JP**, Orset C, Fernandez-Monreal M, Sonderegger P, Ali C, Vivien D

Mol Cell Neurosci. 2005. 30(4):552-8

Type of production: A

Impact factor: **3.8**

26. Tissue-type plasminogen activator crosses the intact blood-brain barrier by low-density lipoprotein receptor-related protein-mediated transcytosis

Benchenane K, Berezowski V, Ali C, Fernandez-Monreal M, **Lopez-Atalaya JP**, Brillault J, Chuquet J, Nouvelot A, MacKenzie ET, Bu G, Cecchelli R, Touzani O, Vivien D

Circulation. 2005. 3;111(17):2241-9

Type of production: A

Impact factor: **15.1**

27. 2,7-Bis-(4-amidinobenzylidene)-cycloheptan-1-one dihydrochloride, tPA stop, prevents tPA-enhanced excitotoxicity both in vitro and in vivo

Liot G, Benchenane K, Leveille F, **Lopez-Atalaya JP**, Fernandez-Monreal M, Ruocco A, Mackenzie ET, Buisson A, Ali C, Vivien D

J Cereb Blood Flow Metab. 2004. 24(10):1153-9

Type of production: A

Impact factor: **5.4**

28. Is tissue-type plasminogen activator a neuromodulator?

Fernandez-Monreal M, **Lopez-Atalaya JP**, Benchenane K, Leveille F, Cacquevel M, Plawinski L, MacKenzie ET, Bu G, Buisson A, Vivien D

Mol Cell Neurosci. 2004. 25(4):594-601

Type of production: A

Impact factor: **3.8**

29. Equivocal roles of tissue-type plasminogen activator in stroke-induced injury

Benchenane K, **Lopez-Atalaya JP**, Fernandez-Monreal M, Touzani O, Vivien D

Trends Neurosci. 2004. 27(3):155-60

Type of production: R

Impact factor: **13.6**

Invited talks and lectures

Speaker: **Lopez-Atalaya JP**

Title: A Sublayer Specific Network of Interacting Cell Types Underlying Hippocampal Sclerosis in CA1

Entity: Instituto de Neurociencias (Programa Severo Ochoa 2013-2017)

Meeting: Workshop: Single-Cell Transcriptomics and Regulatory Neurogenomics

City (Country): Sant Joan d'Alacant (Spain)

Date: June 2018

Speaker: **Lopez-Atalaya JP**

Title: Workshop: Scientific career after PhD

Entity: FENS – ENCODS 2017

Meeting: Congreso Científico Europeo Estudiantes PhD en Neurociencia (Workshop)

City (Country): Benidorm (Spain)

Date: May 2017

Speaker: **Lopez-Atalaya JP**

Title: Dynamic gene regulatory networks driving microglial activation in Alzheimer's disease

Entity: Centro de Investigación Príncipe Felipe (CIPF)

Meeting: Seminario Científico (Lecture)

City (Country): Valencia (Spain)

Date: Sept 2016

Speaker: **Lopez-Atalaya JP**

Title: Epigenetic Factors in Intellectual Disability: The Rubinstein– Taybi Syndrome as a Paradigm of Neurodevelopmental Disorder with Epigenetic Origin

Entity: University of Almeria (Universidad de Almeria, UAL). Department of Psychology
Meeting: Transcriptomics and epigenomics of cognitive function in neurodevelopmental syndromes and neurodegenerative conditions

City (Country): Almeria (Spain)

Date: Apr 2015

Speaker: **Lopez-Atalaya JP**

Title: Role of NF- κ B post-translational modifications in neuronal plasticity

Entity: Hotel Pueblo Acanalado Suites (El Campello. Alicante. Spain)
Meeting: Transcriptomics and epigenetic mechanisms underlying neurodevelopmental disorders

City (Country): Alicante (Spain)

Date: Apr 2015

Speaker: **Lopez-Atalaya JP**

Title: Genomic targets, and histone acetylation and gene expression profiling of neural HDAC inhibition

Entity: Society for Neuroscience (SfN)
Meeting: Neuroscience 2013

City (Country): San Diego (U.S.)

Date: Nov 2013

Speaker: **Lopez-Atalaya JP**

Title: Modulation of the NMDA receptor function by tissue-type plasminogen activator

Entity: Instituto de Neurociencias (CSIC – UMH)
Meeting: ENI-Net Christmas Meeting

City (Country): Alicante (Spain)

Date: Dec 2005

Speaker: **Lopez-Atalaya JP**

Title: Le domaine amino-terminal de la sous-unité NR1 du récepteur NMDA comme cible de l'effet potentialisateur du tPA sur la neurotransmission glutamatergique

Entity: Société de Circulation et de Métabolisme du Cerveau (SCMC)
Meeting: Colloque d'automne: "De l'imagerie cellulaire à l'IRM fonctionnelle"

City (Country): Paris (France)

Date: 2003

Speaker: **Lopez-Atalaya JP**

Title: Modulation of the NMDA receptor function by tissue-type plasminogen activator

Entity: Societé de Circulation et de Métabolisme du Cerveau (SCMC)
Meeting: Réunion de printemps de la Societé de Circulation et de Metabolisme du Cerveau. Réunion satellite du VI colloque de la Societé des Neurosciences Française

City (Country): Caen (France)

Date: 2003

Speaker: **Lopez-Atalaya JP**

Title: Modulation of the NMDA receptor fuction by tissue-type plasminogen activator

Entity: Society for Neuroscience (SfN)

Meeting: Neuroscience 2003

City (Country): New Orleans (U.S.)

Date: 2003

PhD/Thesis director

Project title: Diversidad Celular y Microcircuitos en el Hipocampo Adulto: Mecanismos Reguladores de la Esclerosis Mesial Temporal Epileptógenica

Student: Angel Márquez Galera

Role: Director

Date of defense: 2021

Funding entity: PI project MICINN.

Affiliation entity: Universidad Miguel Hernández de Elche (UMH)

Project title: Mecanismos moleculares de regulación de las transformaciones fenotípicas de la microglía en enfermedad neurodegenerativa

Student: Carmen María Navarrón Izquierdo

Role: Director

Date of defense: 2020

Funding entity: FPI Severo Ochoa (MINECO)

Affiliation entity: Universidad Miguel Hernández de Elche (UMH)

Project title: Epigenetic regulation in memory and cognitive disorders

Student: Michal Lipinski

Role: Co-director (Director: Prof. A Barco)

Date of defense: 2017

Funding entity: FPI Santiago Grisolia Fellowship (Generalitat Valenciana)

Affiliation entity: Universidad Miguel Hernández de Elche (UMH)

R&D management and participation in scientific committees

Committee title: Agencia Nacional de Evaluación y Prospectiva (ANEP) Experto Biomedicina - Expert of the National Agency of Evaluation and Prospective (Biomedicine)

Primary (UNESCO code): 320000 - Medical Science

Affiliation entity: Ministerio de Economía y Competitividad (MINECO)

City affiliation entity: Madrid, Spain

Start date: 2015

Other merits

Competitive fellowships and awards

- 2015: Ramón y Cajal Investigator (RyC). CSIC
- 2014: Junior Principal Investigator (JIN). CSIC
- 2011-2013: Postdoctoral Research Fellow "JAE-Doc" CSIC
- 2008-2010: Postdoctoral Research Fellow "Juan de la Cierva" CSIC
- 2002-2005: PhD. fellowship, granted by the Council of Lower-Normandie. (France)

Animal research accreditations

- Category C. Federation for Laboratory Animal Science Associations (FELASA). 2014
- Category B. Federation for Laboratory Animal Science Associations (FELASA). 2010

Invited reviewer

- *Circulation (American Heart Association)*. IF: 15.07
- *Molecular Psychiatry*. IF: 13.31
- *Scientific Reports*. IF: 5.23
- *Neuropharmacology*. IF: 5.11
- *Molecular Brain*. IF: 4.90
- *Expert Opinion On Biological Therapy*. IF: 3.74
- *Neuroscience*. IF: 3.36
- *Neural Plasticity*. IF: 3.58
- *Behavioural Brain Research*. IF: 3.03
- *International Journal of Molecular Sciences*. IF: 2.86

Teaching activities

- Lecturer in the **Master in Neurociencias** "from bench to bedside" at Instituto de Neurociencias (CSIC – UMH). Academic year 2015-2016; 2016-2017; 2017-2018; 2018-2019.
- Invited professor at **XIV Curso Nacional de Neurociencias** (2016). Organizers: Jose M. Delgado García (Univ. Pablo Olavide, Sevilla) & Alberto Ferrús (Instituto Cajal CSIC, Madrid).
- Our team regularly host visiting undergraduate students who wish to obtain research experience. Certificados de participación adjuntos a este CV.

Organization of R&D activities

Title of the activity: Workshop: "Single-Cell Transcriptomics and Regulatory Neurogenomics"

Type of activity: International Scientific Meeting

Convening entity: Instituto de Neurociencias (CSIC – UMH)

City: Alicante (Spain)

Type of participation: Organizer

Start-End date: 1/06/2018

Title of the activity: When and where learning is taking place: neuronal and synaptic changes in activity during the acquisition of associative learning tasks.

Speaker: Prof. José María Delgado (Univ. Pablo Olavide. Sevilla. España)

Type of activity: IN International Scientific Seminar Programme

Convening entity: Instituto de Neurociencias (CSIC – UMH)

City: Alicante (Spain)

Type of participation: Chairman

Start-End date: 9/06/2017

Title of the activity: Jornada Alternativas Profesionales en la Carrera Investigadora

Type of activity: Jornada Formativa

Convening entity: Sociedad Científicos Retornados a España (CRE)

City: Valencia (Spain)

Type of participation: Organizing committee

Start-End date: 5/04/2016

Title of the activity: 1st Instituto de Neurociencias (IN) PhD Students and Postdoc Meeting

Type of activity: Meeting

Convening entity: Instituto de Neurociencias (CSIC – UMH)

City: Alicante (Spain)

Type of participation: Organizing committee

Start-End date: 18/02/2016 - 19/02/2016

Title of the activity: Tissue-type plasminogen activator (tPA): a two faces neuromodulator

Speaker: Prof. Denis Vivien (INSERM. INSERM U919. GIP Cyceron. France)

Type of activity: IN International Scientific Seminar Programme

Convening entity: Instituto de Neurociencias (CSIC – UMH)

Type of participation: Chairman

Date: 13/03/2009

Title of the activity: NMDA receptors located extra-synaptically mediate excitotoxic neuronal death. Ponente: Prof. Alain Buisson (CNRS. GIP Cyceron. France)

Type of activity: IN International Scientific Seminar Programme

Convening entity: Instituto de Neurociencias (CSIC – UMH)

Type of participation: Chairman

Date: 28/06/2006

Doctoral dissertation defense committee

- Antonio Jesús Hinojosa García (Dir. Beatriz Rico Gozalo). Universidad Miguel Hernández de Elche (Alicante. España). 2017. Vocal.
- Francisco Javier Aguilar Montilla (Dir. Ángel M. Carrión). Universidad Pablo de Olavide (Sevilla. España). 2017. Suplente.

Meetings and workshops

- Asistencia a meetings internacionales (SfN, FENS, SENC) para presentar trabajos de investigación y a diversos workshops de formación (CRG. Dynamics of Genome Structure. 2016; EMBO Conference. Gene regulatory mechanisms in neural fate decisions. 2017...). Certificados de participación adjuntos a este CV.

Education and public outreach

- Brain Awareness Week. Instituto de Neurociencias. 2016, 2017, 2018.
- Múltiples notas de prensa, entrevistas en media (prensa, radio). Voluntariado charlas científicas en IES...