

*Curriculum Vitae***Olatz Pampliega PhD****Personal Information**

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**Current Position**

Group Leader  
 Achucarro Basque Center for Neuroscience  
 Department of Neurosciences - University of the Basque Country  
 Spain

**Education**

2004-2009 **PhD in Biology** Department of Neuroscience, University of the Basque Country, Spain  
 2002-2003 **M.S. in Biomedicine and Biotechnology** University of Alicante, Spain  
 2002-2003 **M.S. in Reproductive Biology** Miguel Hernández University, Spain  
 1997-2002 **BSc. in Biology (Biomedicine)** Autonomous University of Barcelona, Spain

**Professional Appointments**

2018 - 2023 **Ramón y Cajal Fellow. Principal Investigator.** Achucarro Basque Center for Neuroscience. University of the Basque Country. Leioa, Spain.  
 2017 - 2018 **Senior Postdoctoral Fellow.** Laboratory of Pathophysiology of parkinsonian syndromes. Institute of Neurodegenerative Diseases, University of Bordeaux, France.  
 2015 - 2016 **IdEx Junior Chairs Senior Postdoctoral Fellow.** Laboratory of Pathophysiology of parkinsonian syndromes. Institute of Neurodegenerative Diseases, University of Bordeaux, France.  
 2010 - 2014 **Postdoctoral Fellow** Laboratory of Dr. Ana María Cuervo. Dpt. Developmental and Molecular Biology, Albert Einstein College of Medicine, Bronx-NY, USA.  
 2009 - 2010 **Postdoctoral Fellow** Laboratory of Dr. Carlos Matute. Dpt. Neurosciences, University of the Basque Country, Spain.

- 2004 - 2009 **Graduate Research Fellow** Laboratory of Dr. Carlos Matute. Dpt. Neurosciences, University of the Basque Country, Spain.
- 2007 **Visiting scientist** Laboratory of Dr. Frauke Zipp. Neuroscience Research Centre. Charité-Universitätsmedizin. Berlin, Germany.

### Awards and Honours

- 2018-2023 **Ramón y Cajal tenure-track style grant.** Spanish National Agency for Research.
- 2017 **Seal of Excellence of the European Commission to the project proposal “CILIAD Cilia mediated signalling as a tool to modulate autophagy in Alzheimer ’s disease,” submitted under the Horizon 2020’s Marie Skłodowska-Curie actions call H2020-MSCA-IF-2016 of 14 September 2016.**  
Awarded to projects scored as a high-quality project\* proposal in a highly competitive evaluation process, with the recommendation for funding by other sources since Horizon 2020 resources available for this specific Call were already allocated following a competitive ranking. \* This means passing, with a score of 85% or more, all stringent Horizon 2020 assessment thresholds for the 3 award criteria (excellence, impact, quality and efficiency of implementation) required to receive funding from Horizon 2020.
- 2016 **Poster Award. 7<sup>th</sup> Proteasome & Autophagy Workshop. Clermont-Ferrand, France.**
- 2015-2016 **IdEx Junior Chairs Postdoctoral Fellowship.**
- 2014 **Dennis Shields Postdoctoral Award for Outstanding Postdoctoral Research.**
- 2013 **EMBO Meeting 2013 travel award.**
- 2011 **Keystone Symposia in Autophagy travel award.**
- 2010-2011 **Basque Government Postdoctoral Fellowship.**
- 2009 **Excellent *Cum Laude* by unanimous decision Thesis Dissertation. “Doctor Europeus” mention.**
- 2007 **Spanish Ministry of Education and Science Short-Term Abroad Fellowship.**
- 2005-2009 **Spanish Ministry of Education and Science Predoctoral Fellowship for Research Personnel Training.**
- 2004-2005 **Basque foundation BIOEF and University of the Basque Country Fellowship.**

### Research Support

- 2019 - 2021 **Programa Estatal de I+D+i Orientada a los Retos de la Sociedad (MICIU)** Pampliega (PI)  
The primary cilium as an organelle for astrocyte-neuron communication during amyloid beta pathology  
Amount: 108,000€
- 2018 – 2020 **IBRO Return Home Fellowship** Pampliega (PI)  
Amount: 20,000€

2018 – 2023 **Ramón y Cajal tenure-track style grant** Pampliega (PI)  
 The primary cilium as an organelle for astrocyte-neuron communication during amyloid beta pathology.  
 Amount: salary and 40,000€

2016 - 2018 **LECMA-Vaincre Alzheimer** Pampliega (PI)  
 Study of Primary Cilia Receptors that modulate Autophagy in Alzheimer's disease.  
 Amount: 40,000 €

2015 – 2016 **IdEx Bordeaux** Pampliega (PI)  
 Cilia related autophagy in Alzheimer's disease and neurodegenerative disorders.  
 Amount: salary and 20,000 €

### Worth noting

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2016 - **H2020-MSCA-IF-2016 – Seal of Excellence** Pampliega (PI)  
 CILIAD: Cilia mediated signalling as a tool to modulate autophagy in Alzheimer's disease  
 Scored as a high-quality project proposal in a highly competitive evaluation process\*  
 This proposal is recommended for funding by other sources since Horizon 2020 resources available for this specific Call were already allocated following a competitive ranking.  
 \* This means passing, with a score of 85% or more, all stringent Horizon 2020 assessment thresholds for the 3 award criteria (excellence, impact, quality and efficiency of implementation) required to receive funding from Horizon 2020.

2016 – **ERC-2016-STG Selected for Step 2** Pampliega (PI)  
 CILIAD: Cilia mediated signalling as a tool to modulate autophagy in Alzheimer's disease  
 Selected for the Step 2 and invited to a personal interview in Brussels.

### Publications

#### Research papers

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1. Scrivo A., Bourdenx M., **Pampliega O\***, Cuervo AM. *Selective autophagy as a potential therapeutic target for neurodegenerative disorders*. The Lancet Neurology. 17: 802–15, 2018.\*  
Corresponding author.
2. Bejarano E., Murray JW., Wang X., **Pampliega O.**, Yin D., Patel B., Yuste A., Wolkoff AW., Cuervo AM. *Defective recruitment of motor proteins to autophagic compartments contributes to autophagic failure in aging*. Aging Cell. May 29:e12777, 2018. doi: 10.1111/accel.12777.
3. Soria F.N., **Pampliega O.**, Bourdenx M., Meissner W.G., Bezard E., Dehay B. *Exosomes, an unmasked culprit in neurodegenerative diseases*. Frontiers in Neurosciences. Jan 31;11:26, 2017.
4. Soria FN., Zabala A., **Pampliega O.**, Palomino A., Chara JC., Miguelez C., Ugedo L., Sato H., Matute C., Domercq M. *Cystine/glutamate antiporter blockage induces myelin degeneration*. Glia. 64 (8): 1381-95, 2016.

5. **Pampliega O\***, Cuervo AM. *Autophagy and primary cilia: dual interplay*. Current Opinion in Cell Biology. Vol 39: 1-7, 2016. \*Corresponding author.
6. Klionsky DJ., (...) **Pampliega O.**, (...) *et al. Guidelines for the use and interpretation of assays for monitoring autophagy (3<sup>rd</sup> edition)*. Autophagy. Jan 2; 12 (1):1-222, 2016.
7. Orhon I., Dupont N., **Pampliega O.**, Cuervo A.M., Codogno P. *Autophagy and regulation of cilia function and assembly*. Cell Death and Differentiation. Mar; 22(3): 389-97, 2015
8. **Pampliega O.**, Orhon I., Patel B., Sridhar S., Diaz A., Beau I., Codogno P., Satir B. H., Satir P., Cuervo AM. *Functional interaction between autophagy and ciliogenesis*. Nature. Oct 10;502(7470):194-200, 2013
  - i. Comment in: "News and Views", Nature Oct 10; 502(7470):180-1, 2013. *Molecular clearance at the cell's antenna* by Valentina Cianfanelli and Francesco Cecconi.
  - ii. Comment in: "Research Highlights" Nat. Rev. Mol Cell Biol 14, 687, 2013. *Autophagy and ciliogenesis come together* by Katharine H. Wrighton.
  - iii. Preview: Dev. Cell. Oct 28; 27(2):126-7, 2013. *Cilia Grow by Taking a Bite out of the Cell* by Nathan W. Pierce and Maxence V. Nachury.
9. **Pampliega O**, Domercq M, Soria FN, Villoslada P, Rodríguez-Antigüedad A, Matute C. *Increased expression of cystine/glutamate antiporter in multiple sclerosis*. Journal of Neuroinflammation (8) 2011
10. Domercq M., Pérez-Samartín A., Aparicio D., Alberdi E., **Pampliega O.**, Matute C. *P2X7 receptors mediate ischemic damage to oligodendrocytes*. Glia (6) 2010
11. **Pampliega O.**, Domercq M., Villoslada P., Sepulcre J., Rodríguez-Antigüedad A., Matute C. *Association of an EAAT2 polymorphism with higher glutamate concentration in relapsing multiple sclerosis*. Journal of Neuroimmunology (195) 2008.

## Book Chapters

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1. Satir BH., **Pampliega O\***. *Using cilia mutants to study autophagy*. Book chapter in Methods in Molecular Biology: Cilia, edited by Peter Satir and Søren T Christensen. Springer 2016;1454:53-67. doi: 10.1007/978-1-4939-3789-9\_4 \*Corresponding author.
2. **Pampliega O\***, Codogno P. *Cilia-related autophagy in nutrient sensing*. Book chapter in Autophagy and Signaling, Edited by Esther Wong. CRC Press, ISBN 9781498731898 - CAT# K26216. 1 January 2017, pages 119-146. \*Corresponding author.

## Patents

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1. Matute C., Domercq M., Pérez-Samartín A., Pérez-Cerdá F., Vallejo-Illarramendi A., Etxebarria E., **Pampliega O.**, Villoslada P., Rodríguez-Antigüedad A. *Method for the diagnosis and prognosis of demyelinating diseases and for the development of medicaments against demyelinating diseases*. WO/2006/125838

## Conference Communications

1. **Pampliega O.\***, Bezard E. *Ciliary receptors modulate neuronal autophagy: impact of amyloid beta*. Poster. **Neurofrance – Société des Neurosciences 2017**. May 17-19, 2017. Bordeaux, France.
2. **Pampliega O.\***, Bezard E. *Ciliary receptors modulate neuronal autophagy: impact of amyloid beta*. Poster. **Annual Meeting Neurosciences SfN 2016**. November 11-16, 2016. San Diego, USA.
3. **Pampliega O.**, Patel B., Cuervo AM. *Deregulated ciliary Hh signaling induces aberrant autophagy activation during cellular senescence*. Poster. **6th Autophagy Scientific Days organized by CFATG**. October 12-14, 2016. Bordeaux, France.
4. **Pampliega O.**, Patel B., Cuervo AM. *Deregulated ciliary Hh signaling induces aberrant autophagy activation during cellular senescence*. Poster award. **7<sup>th</sup> Proteasome & Autophagy Workshop**. April 6-8, 2016. Clermont-Ferrand, France.
5. **Pampliega O.**, Cuervo A.M. *Cilia autophagy in homeostasis*. Oral presentation. **Cilia, Mucus & Mucociliary Interactions Gordon Research Conference**. February 8-13, 2015. Galveston, Texas, USA.
6. **Pampliega O.**, Orhon I., Patel B., Sridhar S., Diaz A., Beau I., Codogno P., Satir B. H., Satir P., Cuervo A.M. *The dual interplay between ciliogenesis and autophagy*. Oral presentation. **Keystone Symposium on Cilia, Development and Human Disease**. March 2014. Tahoe City, California, USA.
7. **Pampliega O.**, Orhon I., Patel B., Sridhar S., Diaz A., Beau I., Codogno P., Satir B. H., Satir P., Cuervo AM. *Functional interaction between autophagy and ciliogenesis*. Flash Talk and Poster (selected from the presented abstracts). **EMBO meeting**. September 2013. Amsterdam, Netherlands.
8. **Pampliega O.**, Satir P., Cuervo A.M., Satir B.H. *IFT20 is a common component in macroautophagy and cilia formation*. *Molecular Biology of the Cell* 22, (2011) 4705 (abstract 864). **American Society for Cell Biology meeting**. December 2011. Colorado, USA.
9. **Pampliega O.**, Kraut J., Satir B.H., Satir P., Cuervo A.M. *Interplay between autophagy and primary cilia*. Poster (Abstract published in Book of abstracts). **Keystone symposium in Autophagy**. March 2011. British Columbia, Canada.
10. Kraut J., **Pampliega O.**, Rodriguez-Muela N., Satir P., Cuervo A.M., Satir B.H. *Autophagy Influences Growth of Fibroblast Primary Cilia*. *Molecular Biology of the Cell* 21, (2010) 4299 (abstract 1979/B249). **American Society for Cell Biology meeting**. December 2010.
11. Domercq M., Pérez-Samartín A., Aparicio D., Alberdi E., **Pampliega O.**, Matute C. *P2X7 receptors mediate ischemic damage to oligodendrocytes*. Poster (Abstract published in Book of abstracts). **2nd ELA Research Foundation Congress**. June 2009. Luxembourg.
12. **Pampliega O.**, Domercq M., Pérez-Cerdá F., Villoslada P., Rodríguez-Antigüedad A., Matute C. *Altered peripheral blood glutamatergic homeostasis in multiple sclerosis*. Poster (Abstract published in Book of abstracts). **Biomarkers in Brain Disease Conference**. January 26-28, 2009. Oxford, UK.

13. Sánchez-Gómez M.V., Alberdi E., **Pampliega O.**, Alberch J., Matute C. *Bax and calpain mediate excitotoxic oligodendrocyte death induced by activation of AMPA and kainate receptors. The VIIIth European Meeting on Glial Cells in Health and Disease.* London, UK 2007.
14. **Pampliega O.**, Domercq M., Vallejo-Illarramendi A., Villoslada P., Rodríguez-Antigüedad A., Matute C. *Increased glutamate levels and their regulators in Multiple Sclerosis.* Oral presentation (Abstract published in Book of abstracts). **XXVI Meeting of the Spanish Group of Neurotransmission.** 2005. Plentzia, Spain.

### Invited Talks

2017	Achucarro Basque Center for Neurosciences, Leioa, Spain.
2017	Institute of Biomedicine and Biotechnology of Cantabria (IBBTEC), Santander, Spain.
2016	LECMA-Vaincre Alzheimer 2015 Award Ceremony. Académie Nationale de Médecine, Paris, France.
2015	Cilia, Mucus & Mucociliary Interactions Gordon Research Conference. Galveston, Texas, USA.
2014	Dennis Shields Postdoctoral Prize award ceremony. Albert Einstein College of Medicine, New York, USA.
2013	Flash Talk selected from the abstracts at the EMBO meeting, Amsterdam, Netherlands.
2012	Research Seminar at the Department of Neuroscience of the University of the Basque Country, Spain.
2005	XXVI Meeting of the Spanish Group of Neurotransmission. Plentzia, Spain.

### Participation in Research Seminars

2019	Achucarro Day, June, Bizkaia Aretoa, Bilbao, Spain
2018	Institute of Neurodegenerative Diseases, CNRS UMR 5293, University of Bordeaux, France
2017	Autophagy Day at Bordeaux (Bordeaux Autophagy Club), April, University of Bordeaux, France
2015	Autophagy Day at Bordeaux (Bordeaux Autophagy Club), May, University of Bordeaux, France
2015	Institute of Neurodegenerative Diseases, CNRS UMR 5293, University of Bordeaux, France
2014	Marion Bessin Liver Research Center Seminar Series, November, Einstein, NY-USA
2014	Dpt. Developmental and Molecular Biology, October, Einstein, NY-USA
2013	Marion Bessin Liver Research Center Seminar Series, March, Einstein, NY-USA
2013	Dpt. Developmental and Molecular Biology, March, Einstein, NY-USA
2012	Marion Bessin Liver Research Center Seminar Series, June, Einstein, NY-USA
2012	Dpt. Developmental and Molecular Biology, March, Einstein, NY-USA
2011	Marion Bessin Liver Research Center Seminar Series, April, Einstein, NY-USA
2011	Dpt. Developmental and Molecular Biology, March, Einstein, NY-USA
2010	Marion Bessin Liver Research Center Seminar Series, April, Einstein, NY-USA

## Reviewer Activities

### Grant Review Activities:

- 2019 “Ramón y Cajal 2018” Biomedicine Committee - Agencia Estatal de Investigación (Spanish National Research Agency).
- 2018 H2020 MSCA-IF-2018 Evaluator – European Commission
- 2018 “Juan de la Cierva Incorporación 2017” postdoctoral fellowships – Biomedicine Committee-Agencia Estatal de Investigación (Spanish National Research Agency).

### Review Activities in Scientific Peer-reviewed Journals:

Acta Neuropathologica, Aging Cell, American Journal Pathology, Autophagy, Biochemical Journal, BioMed Research International, Cells-Open Access Cell Biology Journal, Cell Stress and Chaperones, Clinical Interventions in Aging  
FASEB Journal, FEBS Journal, Free Radical, Biology & Medicine (FRBM), Journal of Cellular Biochemistry, Journal of Molecular Neuroscience, Molecular Biology of the Cell, Neurobiology of Aging, Neurobiology of Disease, PLOS One, Progress in Neurobiology, Scientific Reports

## Society Memberships

- 2019 SENC. Spanish Society for Neuroscience
- 2018- SEFAGIA. Autophagy Spanish Society
- 2017-2018 Société des Neurosciences (FENS)
- 2016-2018 Society for Neuroscience (SfN)
- 2016 -2018 Club Francophone de l'Autophagie (CFATG)
- 2013-2015 American Association for the Advancement of Science (AAAS)
- 2002-2014 Basque Country Official College of Biologists

## Mentorship

### **Achucarro Basque Center for Neurosciences and UPV/EHU**

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**Mentor master student** – Hugo de Castro (January-June 2019). Neuroscience master program

**Mentor visiting PhD student** – Nara Pineda (March-June 2019). UNAM PhD program, Mexico.

### **Institute des Maladies Neurodégénératives - Bordeaux**

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**Mentor of undergraduated student (Laure Bodet, Université de Bordeaux)** in the laboratory of Dr. Erwan Bézard (May 2-31 2017).

**Mentor of undergraduated student (Rhianna Joyner, Erasmus program, Keele University, UK)** in the laboratory of Dr. Erwan Bézard (October 2016-April 2017).

## Albert Einstein College of Medicine

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**Mentor of master student (Mahrukh Syeda, Einstein Graduate program)** in the laboratory of Dr. Ana Maria Cuervo (Septembre 2014-October 2014).

**Mentor of master student (Sinan Kor, Einstein MSTP program)** in the laboratory of Dr. Ana Maria Cuervo (July 2014-August 2014).

**Mentor of master student (Sara Nik, Einstein Graduate program)** in the laboratory of Dr. Ana Maria Cuervo (May 2014-June 2014).

**Mentor of master student (Alejandra Martín, Einstein Graduate program)** in the laboratory of Dr. Ana Maria Cuervo (February 2014-March 2014).

**Mentor of undergraduate student (Dennis Guo, SURP program)** in the laboratory of Dr. Ana Maria Cuervo and Dr. Peter Satir. (June 2013- August 2013).

**Mentor of visiting graduate student (Idil Orhon, INSERM, Paris)** in the laboratory of Dr. Ana Maria Cuervo. (April 2012- July 2012).

**Mentor of undergraduate student (Jenny Kraut, SURP program)** in the laboratory of Dr. Ana Maria Cuervo. (June 2010- August 2010).

## Teaching

### University of the Basque Country, Spain

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2019 - **Lecture on autophagy and neurodegeneration.** Master in Biochemistry and Molecular Biology.

2007 - **Lecture on quantitative PCR to Neuroscience graduate students.** Neuroscience graduate program of the University of the Basque Country.

## Outreach and Dissemination Activities

2018-2019 **Elhuyar Zientzia Azoka adviser.** Science week programme organized by Elhuyar Foundation towards 12 to 18 years old students. <http://teknopolis.elhuyar.eus/reportajes/zientzia-azoka-en-bilbao/?lang=es>.

2019 **11February Women in Science.** Talk in secondary school VM Irlandesas Leioa.

2018- **Organizer of Achucarro Forum.** Organizing Neuroscience talks to the general public in Bilbao. <https://www.achucarro.org/achucarro-forum>

2018- **SEFAGIA Newsletter writer**