

## CURRICULUM VITAE

### ALBERTO FERRÚS

*Personal data:* Born May 24, 1950 in Almansa (Albacete) Spain.

*Present position:* Research Full Professor. Dept. Cell. Mol. and Develop. Neurosciences. Cajal Institute CSIC. Ave. Dr. Arce 37. Madrid 28002. Spain. ph. +34 91 5854739 FAX + 3491 5854754. E-mail: [aferrus@cajal.csic.es](mailto:aferrus@cajal.csic.es)

*Degrees:* M.S. University of Sevilla, 1972.  
Ph.D. University of Madrid, 1976.

#### *Postdoctoral experience*

1976-1979 Biology Dpt. Yale University (with Prof. D.R. Kankel).  
1979-1981 Biology Division. Caltech (with Prof. S. Benzer).

#### *Fellowships:*

EMBO (1976-1977)  
NIH Fogarty Program (1977-1979)  
Gosney Foundation (1979-1980)  
Del E. Webb Foundation (1980-1981).  
Fondation Simone et Cino del Duca (1991).

#### *Research in foreign institutions*

Summer 1983 Visiting scientist, Caltech. CA. (USA)  
Summer 1985 Visiting scientist, Weizmann Institute (IS)  
Summer 1988 Visiting scientist, Weizmann Institute (IS)  
1990 - 1991 Sabbatical year C.N.R.S. Lab de Neurophysiologie Gif-s-Yvette. (F)  
1995 - 1996 Wiersma visiting scientist, Caltech CA. (USA)  
Summer 2001 Visiting scientist, Lehrstuhl für Genetik, Würzburg Uni (D)  
Summer 2003 Visiting scientist, Baylor College of Medicine, TX (USA)

#### *Membership of Societies*

European Neuroscience Association (elected 1982)  
Sociedad Española de Neurociencia (elected 1984)  
Sociedad Española de Biología Celular (elected 1985)  
Sociedad Española de Genética (elected 1990)  
Sociedad Española de Ciencias Fisiológicas (1999)  
American Society for Microbiology (2000)  
Society for Neurosciences (2001)

### **Ten most relevant publications.-**

Sahota, V., Grau, B., Mansilla, A. and Ferrús, A. (2009) Troponin I and Tropomyosin regulate chromosomal stability and cell polarity. **J. Cell Sci.** (in press).

Romero-Pozuelo, J., Dason, J.S., Atwood, H.L., and Ferrús, A. (2007) Chronic and acute alterations in the functional levels of Frequentins 1 and 2 reveal their roles in synaptic transmission and axon terminal morphology. **Eur. J. Neurosci.** 26, 2428-2443.

Martín-Peña, A., Acebes, A., Rodríguez, J.R., Sorribes, A., de Polavieja, G.G., Fernández-Fúnez, P. and Ferrús, A. (2006) Age-independent synaptogenesis by phosphoinositide 3 kinase. **J. Neurosci.** 26, 10199-10208.

Acebes, A. and Ferrús, A. (2001) Increasing the number of synapses modifies olfactory perception in *Drosophila*. **J. Neurosci.** 21, 6264-6273.

Devaud, J.M., Acebes, A. and Ferrús, A. (2001) Odor exposure causes central adaptation and specific morphological changes in olfactory glomeruli in *Drosophila*. **J. Neurosci.** 21, 6274-6282.

Acebes, A. and Ferrús, A. (2000) Molecular and dynamic features of axon collaterals and dendrites. **Trends in Neurosci.** 23, 557-565.

Canal, I.; Acebes, A. and Ferrús, A. (1998) Single neuron mosaics of the *Drosophila gigas* mutant project beyond normal targets and modify behavior. **J. Neurosci.** 18, 999-1008.

Martínez-Padrón, M. and Ferrús, A. (1997) Presynaptic recordings from *Drosophila*: Correlation of macroscopic and single-channel K currents. **J. Neurosci.** 17, 3412-3424.

Pongs, O.; Lindemeier, J.; Zhu, X.R.; Theil, T.; Engelkamp, D.; Krah-Jentgens, I.; Lambrecht, H.G.; Koch, K.W.; Schwemer, J.; Rivosecchi, R.; Mallart, A.; Galceran, J.; Canal, I., Barbas, J. and Ferrús, A. (1993) Frequentin - A novel calcium binding protein that modulates synaptic efficacy in the *Drosophila* nervous system. **Neuron** 11, 15-28.

Lichtinghagen, R.; Stocker, M.; Wittika, R.; Boheim, G.; Stühmer, W.; Ferrús, A. and Pongs, O. (1990) Molecular basis of altered excitability in Shaker mutants of *Drosophila melanogaster*. **EMBO J.** 9, 4399-4407.

### **Bibliometric indexes.=**

Out of: 75

Nº citations received as of June 2009 = 2.426

H index= 26

(ISI web of knowledge)

Nº publications with 100 citations or more = 5

Average citations per paper: 42

Papers still cited after 10 or more years of publication.-

20 out of 38 = **52,6%**

Fraction of papers never cited after 3 or more years of publication.- 3 out of 54 = **5,5%**

### Main research grants during the last ten years (1999-2008)

1999-00	Autonomous Comunity of Madrid08.5/43
2001-02	Autonomous Comunity of Madrid08.5/34/2000
2000-03	Spanish Ministry of Science and TechnologyPM99/99
2001-03	Spanish Health Ministry 01/1185
2003-06	Spanish Ministry of Science and TechnologyBMC2003/05051
2004-07	European Research Network of Excellence: TAF- CHROMATIN. Ref.: MRTN-CT-2004-504288.
2005-08	European Research Network of Excellence: MYORES. Ref CE: 511978.
2006-09	Spanish Ministry of Science and Education BFU2006-10180/BMC
2007-10	Red de Excelencia. Comunidad de Madrid S-SEM-0255-2006-02

### Patents

Title: *“Use of PI3K activity agonists in the elaboration of pharmaceutical agents, said pharmaceutical compositions and their applications in the treatment of neurodegenerative diseases.”*

Nº: P200503199

Sept. 2006.

Title: *“Device to visualize fluorescent biological materials”*

Nº: P200603288

Dec. 2006.

*Membership of editorial boards of scientific journals (past and present)*

Neurobiology of Disease  
Journal of Neurogenetics  
Genes, Brain and Behavior  
Frontiers in Neuroscience

*Reviewer for:*

J. Neurosciences; Neuron; EMBO J.; Mol. Cell. Biol.; Mol. Biol. Cell;  
J. Neurobiology; Genetics, Cerebral cortex, J. Comp. Neurology, Learning and  
Memory.

*Awards:*

“Demuth Prize” (1984) Swiss chapter of IntlBrain Res. Org. Zürich. Switzerland.  
“C. Wiersma” Visiting Professorship (1995). Biology Division Caltech. CA. USA.  
“Deutsche Forschungsgemeinschaft Binational Award“ (2001). Würzburg Univ. Germany.

*Participation in scientific committees*

Experts group II for the Health Ministry Research Committee (1982-88).  
Experts group XIV for the Health Ministry Research Committee (1992-98)  
Scientific Council. European Neuroscience Association (ENA). (1991- 94)  
Nominating Committee of the International Brain Research Organization (IBRO).  
(1993-96)  
Vicedirector of the Cajal Institute (1987-90)  
Director of the Cajal Institute (1993-96).  
Member of the Human Frontier Science Program, “Brain Function committee”  
(1996-00)  
Member of the External Review Committee for the UMR 5548 (Directeur Prof. R.  
Brossut) “Développement, communication chimique” de la Faculté des Sciences.  
Université de Bourgogne. Dijon. France (2002).  
Scientific Advisor for Neurosciences at the Sciences Museum “CosmoCaixa”.  
(Madrid) (1999-2002)  
Vicedirector of the Cajal Institute (2005-2006)  
Director of the Cajal Institute (2007- 2009)

### *Teaching and Training*

-) PhD trainees: 10, plus 2 currently active.

-) Member of international PhD committees:

Université Paris VI (Jussieu) France. 1997. Candidate: J.M. Devaud.

Institute Pasteur (Paris) France. 2002. Candidate: G. Danguy.

Lund University (Sweden). 2004. Candidate: M. Stensmyrs.

-) Teaching experience (last ten years):

Course	Institution
PhD course “Desarrollo del Sistema nervioso y biología del Comportamiento”. (2002, 03, 04, 07).	Universidad Pablo de Olavide Sevilla
“Neurobiology of Drosophila” (2002)	Cold Spring Harbor. N.Y. (USA)
Cursos Nacionales de Genética (2002, 04, 06)	Universidad Pablo de Olavide. Sevilla.
Cursos Nacionales de Neurociencias (98, 00, 02, 04, 06, 08)	Universidad Internacional de Andalucía. La Rábida (Huelva) / Universidad Pablo de Olavide. Sevilla.
Advance course of specialization in Neurosciences. (01, 08)	Universidad de Salamanca (Instituto de Neurociencias de Castilla y León)