***CURRICULUM VITAE ABREVIADO (CVA)***

**Part A. PERSONAL INFORMATION**

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| --- | --- |
| First name  | James |
| Family name | Hombría Castelli-Gair  |  |  |
| Gender (\*) | Male | Birth date  | 11/04/1962 |
| ID number | 78284812B (British/Spanish dual national) |  |  |
| e-mail | jcashom@upo.es | URL Web https://www.cabd.es/en/research\_groups/cell-integration-of-diverse-genetic-inputs-during-the-morphogenesis-of-complex-organs/summary-21.html |
| Open Researcher and Contributor ID (ORCID)  | 0000-0003-4183-5250 |

**A.1. Current position**

|  |  |
| --- | --- |
| Position |  Investigador Científico (CSIC) (Group leader, permanent staff) |
| Initial date | 02/12/2011  |
| Institution | CABD (CSIC/JA/UPO)   |
| Department/Center |  Gene regulation and morphogenesis  | CABD |
| Country |  Spain | phone | 954348942 |
| Key words |  Developmental Biology/Organogenesis/gene regulation/Hox/ JAK-STAT/Drosophila  |

**A.2. Previous positions**

|  |  |
| --- | --- |
| Period | Position/Institution/Country/Interruption cause |
| 2006-2009 | Científico titular CSIC, CABD CSIC/UPO. Spain. |
| 2004-2006 |  Investigador Ramón y Cajal at the CABD CSIC/UPO. Spain. |
| 2003-2004 | Sabattical year at the CABD (CSIC/JA/U. Pablo Olavide, Sevilla) |
| 1995-2003 | Group leader at the Dep. of Zoology. U. of Cambridge (UK) |
| 1994-1995 | Research Associate with Prof. Akam at the Wellcome/CRC Institute (Gurdon Institute). U. Cambridge (UK) |
| 1992-1993 | EMBO Post-doctoral with Prof. Akam. Wellcome/CRC Institute (Gurdon Institute). U. of Cambridge (UK) |
| 1991 (June-July) | Short term EMBO pos-doctoral with Prof. M. Bienz. Univ. Zürich. |
| 1990-1991 | Post-doctoral. CBM, Madrid Spain. |

**A.3. Education**

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| --- | --- | --- |
| PhD, Licensed, Graduate | University/Country | Year |
| Licenciado Graduate in Biology | Universidad Complutense de Madrid, Spain | 1985  |
|  PhD Developmental Biology |  Universidad Autónoma de Madrid, Spain |  1989 |

**Part B. CV SUMMARY**

**Institutional responsibilities**

(2015-May 2019) Director of the CABD (CSIC/JA/UPO) Spain.

(2011-14) Vicedirector of the CABD (CSIC/JA/UPO) Spain.

(2007-2011) Director of the Gene regulation and Morphogenesis Department CABD (CSIC-U. Pablo de Olavide.

(2005-2014) Vocal Soc. Esp. Biol. Desarrollo.

**International evaluation committees:**

**(2022-2024)** Panel expert for the French Evaluation agency Hcéres: Acting in 2022 as panel member of the IGBMC (Strasbourg) and the iBV (Nice). Acting in 2022 as chair of the evaluating committee of IBDM (Marseilles). Acting in 2023 as chair of the evaluating committee of LBD and the UGBD (Institut Curie, Paris) and also participating in Institut Jacques Monod; LBVD; and IBENS committes.

**(2020)** Austrian Science Fund, Review panel member. FWF SFB program Austria.

**(January 2011)** AERES committee member to evaluate the IBDM, CNRS-U. de la Mediterranée, France.

**(December 2009)** AERES committee member to evaluate the CBD, CNRS-U. Toulouse III, France.

**Spanish National evaluation committees:**

**(2022)** Member of the Agencia Estatal de Investigación (AEI) evaluation panel for the BIO-BMC 2021 Research Project applications.

**(2020)** Member of the Agencia Estatal de Investigación (AEI) evaluation panel for the Ramón y Cajal program.

**(2009-2011)** Adjunto al área de BFS (ANEP) subarea de Neurobiology and Development.

**Editorial Boards:**

-Since 2020-now. Reviewer Editor, Frontiers in Cell and Developmental Biology.

-Since 2011-now. Scientific Reports Editorial Board member (Nature Publishing Group).

-2011-2017 JAK/STAT Editorial Board member (Landes Biosciences).

**Scientific Dissemination**

2020 Translation into Spanish of *A Crack in Creation* by Jennifer Doudna and Sam Sternberg. I proposed *Alianza Editorial* to buy the rights for publishing in Spanish the book, which I also translated with Dr M J Sánchez. I.S.B.N. 978-84-9181-887-8

**Sexenios: 4 Director of 8 PhD:** 4 defended y 4 en ongoing (2 almost defended).

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

**Research Publications**

(1) **Castelli-Gair J.E.**, Micol J.L. and García-Bellido, A. (1990). Genetics **126**, 177-184.

(2) Micol J.L., **Castelli-Gair J.E.** and García-Bellido, A. (1990). Genetics **126**, 365-373.

(3) **Castelli-Gair J.E.** and García-Bellido, A. (1990). EMBO J. **9**, 4267-4275.

(4) **Castelli-Gair J.E.**, Müller J. and Bienz M. (1992). Development **114**, 877-886.

(5) **Cast.-Gair**, Capdevila, Micol and García-Bellido. (1992). Mol Gen Genet **234**, 177-184.

(6) Camprodón J. and **Cast.-Gair J.E.** (1994). Wilhelm Roux's Arch. Dev. Biol. **203**, 411-21.

(7) **Castelli-Gair J.**,Greig S., Micklem G. and Akam M.E. (1994).Development **120**,1983-95.

(8) **Castelli-Gair J.E.** and Akam M.E. (1995). Development **121**, 2973-2982.

(9) **Castelli-Gair J.** (1998). Development **125**, 1269-1274.

(10) **Castelli-Gair J.E.** (1998). Int. J. Dev. Biol. **42**, 437-444.

(11) Hu N. and **Castelli-Gair J.E.** (1999). Developmental Biology. **214**, 197-210.

(12) Brown S. and **Castelli-Gair Hombría J.** (2000). Development. **127**, 4867-4876.

(13) Brown S., Hu and **Castelli-Gair Hombría J.** (2001). Current Biology. **11,** 1700-1705.

(14) Brown S., Hu, N and **Castelli-Gair Hombría J.** (2003). Development **130,** 3077-3084.

(15) Mukherjee T., **Castelli-Gair Hombría J.** and Zeidler M. (2005) Oncogene. **24**, 2503-11.

(16) Denholm, Brown, Ray, RuizG, Skaer & **C-G Hombría** (2005). Developnt. **132**, 2389-00.

(17) Merabet, **Cast-Gair Hombría**, Hu, Pradel & Graba (2005) Development **132**, 3093-02.

(18) **C-G Hombría**, Brown, Häder & Zeidler (2005). Developmental Biology **288**, 420-433.

(19) Brown, Zeidler & **Cast-Gair Hombría** (2006). Developmental Dynamics **235**, 958-966.

(20) Simões, Denholm, Azvdo, Sotillos, Martin, Skaer, **Cast-G Hombría &** Jacinto (2006). Development **133**, 4257-67.

(21) Lovegrove B., Simões S., Rivas M.L., Sotillos S., Johnson K., E. Knust E., Jacinto A. and **Castelli-Gair Hombría J.** (2006). Current Biology **16**, 2206-2216.

(22) Sotillos, Díaz-Meco, Moscat, & **Cast-Gair Hombría J.** (2008). Current Biol **18**, 624-29.

(23) Rivas, Cobreros, Zeidler & **Castelli-Gair Hombría J.** (2008). EMBO*reports*. **9**, 1114-20.

(24) Sotillos, Esp-Vázquez, Foglia, Hu & **Cast-Gair Homb.** (2010). Dev. Biol. **340**, 571-92.

(25) Rivas M. L., Espinosa-Vázquez J. M., Sambrani N., Greig S., Merabet S.,Graba Y. and **Castelli-Gair Hombría J.** (2013). PLoS genetics. **9**:e1003252.

(26) SotillosS., Aguilar M. and **Castelli-Gair Hombría J.** (2013). PNAS. **110**, 4303-08.

(27) Sotillos, Krahn, Espinosa & **Cast-Gair Hombría J.** (2013). Development. **140**, 1507-16.

(28) Sánchez-Higueras, Sotillos & **Cast.-Gair Hombría J.** (2014). Current Biol. **24**, 76-81.

(29) Pinto, P., Jose Manuel Espinosa-Vázquez, María Luisa Rivas and **Castelli-Gair Hombría J.** (2015). PLoSgenetics. **11**:e1005412.

(30) Sánchez-Higueras C., & **Cast-Gair Hombría J.** (2016). Developmntal Biol. 414: 45-57.

(31) Sotillos, S., Aguilar, M. & **Cast.-Gair Hombría J.** (2018). Scientific Reports. 8:4601

(32) Uliana J.V.C., Brancini G.T.P., **Cast.-Gair Hombría J.** Digiampietri L. A., Andrioli L.P. and Monesi N (2018). Mechanisms of Development. **154**: 270-276.

(33) Sánchez-Higueras C., Rastogi C., Voutev R., Bussemaker H. J., Mann R. S. and **Hombría C-G J**. (2019) In vivo Hox binding specificity revealed by systematic changes to a single cis regulatory module. Nature Communications 10:3597

(34) García-Ferrés M. and Sánchez-Higueras C., Espinosa Vázquez J.M. and **Hombría C-G J.** (2022). Specification of the endocrine primordia controlling insect moulting and metamorphosis by the JAK/STAT signalling pathway. [PLoS genetics 18: e1010427.](http://journals.plos.org/plosgenetics/article?id=10.1371/journal.pgen.1010427)

(35) Sotillos S., Von der Decken I., Domenech Mercadé I., Srinivasan S., Sirokha D., Livshits L., Vanni S., Nef S.,  Biasson-Lauber A., Rodríguez Gutiérrez D. and **Castelli-Gair Hombría J.** (2022). A conserved function of Human DLC3 and Drosophila Cv-c in testis development. [eLife 11:e82343.](http://elifesciences.org/articles/82343) (36) Molina-Gil, S., Sotillos S., Espinosa-Vázquez J.M., Almudí I. and **Hombría C-G J.** (Accepted). Interlocking of co-opted developmental gene networks in *Drosophila* and the evolution of pre-adaptive novelty. Nature Communications.

**(Reviews)**

(R1) Akam, Averof, **Castelli-Gair**, Dawes, Falciani & Ferrier (1994). Development **120 S**, 209-15.

(R2) **Castelli-Gair Hombría J.** & Brown, S. (2002). Current Biology **12**, R569-R575.

(R3) **Castelli-Gair Hombría J.** and Lovegrove, B. (2003). Differentiation **71**, 461-468.

(R4) **Castelli-Gair Hombría J.** and Sotillos, S. (2006). Current Biology **16**, R98-R100.

(R5) **Castelli-Gair Hombría J.** & Sotillos, S.(2008). Seminars in Cell and Dev. Biol. **19**, 370-78.

(R6) **Cast.-Gair Hombría J.**, Rivas M.L. & Sotillos, S. (2009). Int. J. Dev. Biol. **53,** 1349-58.

(R7) **Castelli-Gair Hombría J.** (2011). BMC Biol. **9,** 26. (Tres páginas).

(R8) **Castelli-Gair Hombría J.** and Serras F. (2013). JAK-STAT. 2:2, e23203. (4 páginas).

(R9) **Castelli-Gair Hombría J.** and Sotillos, S. (2013). *JAK-STAT.* **2**: 3, e26089. (8 páginas).

(R10) **Cast-Gair Hombría J.** & González-Reyes, A. (2016). Current Biology **26**, R1153-R1155

(R11) **C-G Hombría J.** and Sotillos, S. (2020). Current Biology **30**, R655-R657.

(R12) **C-G Hombría J.,** García-Ferrés M. andCarlos Sánchez Higueras (2021). Anterior Hox genes and the process of cephalization. Frontiers in Cell and Dev. Biology 9:718175 (13 pages).

**(Book chapters)**

(C1) **Castelli-Gair J.E.**, Elvira R., Sánchez M.J. and Ramos, A. (1983). Zonas Verdes de Carabanchel. In: Carabanchel Puertas Abiertas. Ed. Junta Municipal de Carabanchel. Madrid, (Spain).

(C2) **Castelli-Gair J.E.** (1999). *Ultrabithorax* genes. Vol. 4: 2717-2719. In: Encyclopedia of molecular biology. (T. E. Creighton, ed.), John Wyley and Sons, Inc. New York.

(C3) **Castelli-Gair J.E.** (1999). Homeotic genes. Vol. 2: 1161-1163. In: Encyclopedia of molecular biology. (T. E. Creighton, ed.), John Wyley and Sons, Inc. New York.

(C4) **Castelli-Gair Hombría J.** (2005). In Key Experiments in Practical Dev. Bio. Marí-Beffa, & Knight (eds.) pp:255-268. (ISBN: 0521833159). Cambridge University Press. New York.

(C5) **J. Castelli-Gair Hombría** and Paola Bovolenta**.** (2016). Models for studying Organogenetic gene networks in the 21st century. In: "Organogenetic gene networks. Springer" pp:1-7. (ISBN: 978-3-319-42765-2). Springer International, Cham Switzerland.

(C6) **J. Castelli-Gair Hombría,** Carlos Sánchez Higueras and E. Sánchez-Herrero**.** (2016). Control of organogenesis by Hox genes. pp:319-373. (ISBN: 978-3-319-42765-2). Springer International, Cham Switzerland.

**(Edited books)**

(Ed1) **Castelli-Gair Hombría, J**. and Bovolenta P. (eds.) (2016). "Organogenetic gene networks. Springer" pp: 376. (ISBN: 978-3-319-42765-2). Springer International.

**C.2. Congress organizer:**

**2005** Genetic dissection of early developmental processes: A tribute to Jose A. Campos Ortega. Organizadores: J. Castelli-Gair Hombría and E. Cerdá- Olmedo. Sevilla.

**2008** Joint meeting of the British and Spanish developmental biology societies. Organizadores: J. Castelli-Gair Hombría, A. González-Reyes, A. Hidalgo y R. Kelsh. Sevilla.

**2017**. Symposium on Animal Development and its Evolutionary Variation

Cambridge, 17th-18th September. Scientific organisers: Claudio Alonso, Michalis Averof, James Castelli-Gair Hombría, David Stern, Max Telford.

**C.3. Research projects**, (*As principal Investigator Spanish National and Uk):*

1995-2004. Royal Society University Research Fellowship. UK.

1997-2000. Wellcome Trust Project Grant. UK.

2000-2003. Wellcome Trust Project Grant. UK.

2003-2004. Wellcome Trust Project Grant. UK.

2004-2006 Contrato Ramón y Cajal.

2005-2007 Research project MEC BFU2004-01069.

2006-2007. Proy. intramural especial, CSIC/MEC.

2007. Proy. explora BFU2006-26090. MEC.

2007-2009. Proy. de Excelencia de la Junta de Andalucía. P06-CVI-1810.

2007-2010 Proy. de Investigación del MEC. BFU2007-60067.

2009-2012. Proy. de Excelencia de la Junta de Andalucía. CTS-4478.

2011-2013 Proy. de Investigación del MICINN.

2014- 2016 Proy. de Investigación MINECO. BFU2010-15020. BFU2013-45866-P.

2015-2017. Proyecto explora. MINECO. BFU2014-61836-EXP. Spain.

2017-2019. Research project. MINECO. BFU2016-76528-P. Spain.

2020-2023. Research project. MICINN. PID2019-104656GB-I00. Spain.

2021-2022. Proy. de Excelencia de la Junta de Andalucía. P20-0003. Spain.

2023-2026. Research project. MICINN. PID2023-136728NB-I00. Spain.

*As participant in collective projects Total 3:*

**2007-2012** Consolider: *IP Prof G. Morata* CON-2007-1.

**2017-2021** GENE REGULATION AND MORPHOGENESIS (GEM) Decision making in cell collectives: mechanisms in development, homeostasis and evolution*. IP. JL Gómez Skarmeta. Excelencia* María de Maeztu MDM-2016-0687.

**2021-2025** Decision making of cell collectives across scales (DMC3). *IP. JP Couso*. Excelencia María de Maeztu CEX-2020-001088-M.