

PhD Vacancy (Bilbao – Spain)

Structure and Cell Biology of Viruses Lab.



We have a PhD vacancy at the **Abrescia Lab** at the **CIC bioGUNE** research centre near Bilbao (Spain) (<http://www.ikerbasque.net/nicola.abrescia> and <http://www.cicbiogune.es>) that we would like to cover with a highly competitive candidate with a bachelor's degree in any of the following disciplines: physics, chemistry, computer or biomedical engineering applying through the predoctoral Spanish MINECO-FPI program (this position is associated to an awarded Project Grant).

Our group uses both cryo-EM and X-ray crystallography to determine the structural basis of **viral pathogenesis**. We are interested in virus assembly principles and virus-host recognition mechanisms collaborating with groups of worldwide recognition.

Interested candidates with an excellent academic record should hold a Master in a relevant subject and be highly competitive and motivated in joining a multidisciplinary group with expertise in virology, structural virology and immunology.

For enquiries please contact: nabrescia@cicbiogune.es before October 2019.

Selected Publications

1. Santos-Perez* I, Charro* D, Gil-Carton D, Azkargorta M, Elortza F, Bamford DH, Oksanen HM, Abrescia NG (2019) [Structural basis for assembly of vertical single beta-barrel viruses](#). *Nat. Commun.* 10:1184. doi: 10.1038/s41467-019-08927-2.
2. Azinas S, Bano F, Torca I, Bamford DH, Schwartz GA, Esnaola J, Oksanen HM, Richter* RP, Abrescia* NG (2018) [Membrane-containing virus particles exhibit the mechanics of a composite material for genome protection](#). *Nanoscale* 10:7769-7779. doi: 10.1039/c8nr00196k.
3. Kotecha A, Wang Q, Dong X, Ilca SL, Ondiviela M, Zihe R, Seago J, Charelston B, Fry EE, Abrescia* NG, Springer* TA, Huiskonen* JT and Stuart* DI (2017) [Rules of engagement between alphaVbeta6 integrin and the RGD-loop of foot-and-mouth disease virus](#). *Nat. Commun.* 8:15408. doi:10.1038/ncomms15408.
4. Yan J, Beattie TR, Rojas AL, Schermerhorn K, Gristwood T, Trinidad JC, Albers SV, Roversi P, Gardner AF, Abrescia* NG, Bell* SD. (2017) [Identification and characterization of a heterotrimeric archaeal DNA polymerase holoenzyme](#). *Nat. Commun.* 8:15075. doi: 10.1038/ncomms15075.
5. Boshra HY, Charro D, Lorenzo G, Sánchez I, Lazaro B, Brun A, Abrescia NG. (2017) [DNA vaccination regimes against Schmallenberg virus infection in IFNAR^{-/-} mice suggest two targets for immunization](#). *Antiviral Res.* 141, 107-115.
6. Cunha ES, Sfriso P, Rojas AL, Roversi P, Hospital A, Orozco M, Abrescia NG (2017) [Mechanism of Structural Tuning of the Hepatitis C Virus Human Cellular Receptor CD81 Large Extracellular Loop](#). *Structure.* 25, 53-65.
7. Gil-Carton D, Jaakkola ST, Charro D, Peralta B, Castaño-Díez D, Oksanen HM, Bamford DH, Abrescia NG. (2015) [Insight into the Assembly of Viruses with Vertical Single \$\beta\$ -barrel Major Capsid Proteins](#). *Structure.* 23:1866-77.
8. Peralta B, Gil-Carton D, Castaño-Díez D, Bertin A, Boulogne C, Oksanen HM, Bamford DH, Abrescia NG. (2013) [Mechanism of membranous tunnelling nanotube formation in viral genome delivery](#). *PLoS Biol.* 11(9):e1001667.



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EXCELENCIA SEVERO OCHOA