

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title                       | Phage biodiversity in artisanal cheese wheys reflects the complexity of the fermentation process                                                                                                                                                                                                                                                                                                                 |
| Authors                     | Mahony, Jennifer;Moscarelli, Angelo;Kelleher, Philip;Lugli, Gabriele A.;Ventura, Marco;Settanni, Luca;van Sinderen, Douwe                                                                                                                                                                                                                                                                                        |
| Publication date            | 2017-03-16                                                                                                                                                                                                                                                                                                                                                                                                       |
| Original Citation           | Mahony, J., Moscarelli, A., Kelleher, P., Lugli, G. A., Ventura, M., Settanni, L. and van Sinderen, D. (2017) 'Phage biodiversity in artisanal cheese wheys reflects the complexity of the fermentation process', Viruses, 9(3),45 (18pp). doi:10.3390/v9030045                                                                                                                                                  |
| Type of publication         | Article (peer-reviewed)                                                                                                                                                                                                                                                                                                                                                                                          |
| Link to publisher's version | 10.3390/v9030045                                                                                                                                                                                                                                                                                                                                                                                                 |
| Rights                      | © 2017, the Authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license ( <a href="http://creativecommons.org/licenses/by/4.0/">http://creativecommons.org/licenses/by/4.0/</a> ). - <a href="http://creativecommons.org/licenses/by/4.0/">http://creativecommons.org/licenses/by/4.0/</a> |
| Download date               | 2026-08-08 21:09:58                                                                                                                                                                                                                                                                                                                                                                                              |
| Item downloaded from        | <a href="https://hdl.handle.net/10468/3855">https://hdl.handle.net/10468/3855</a>                                                                                                                                                                                                                                                                                                                                |

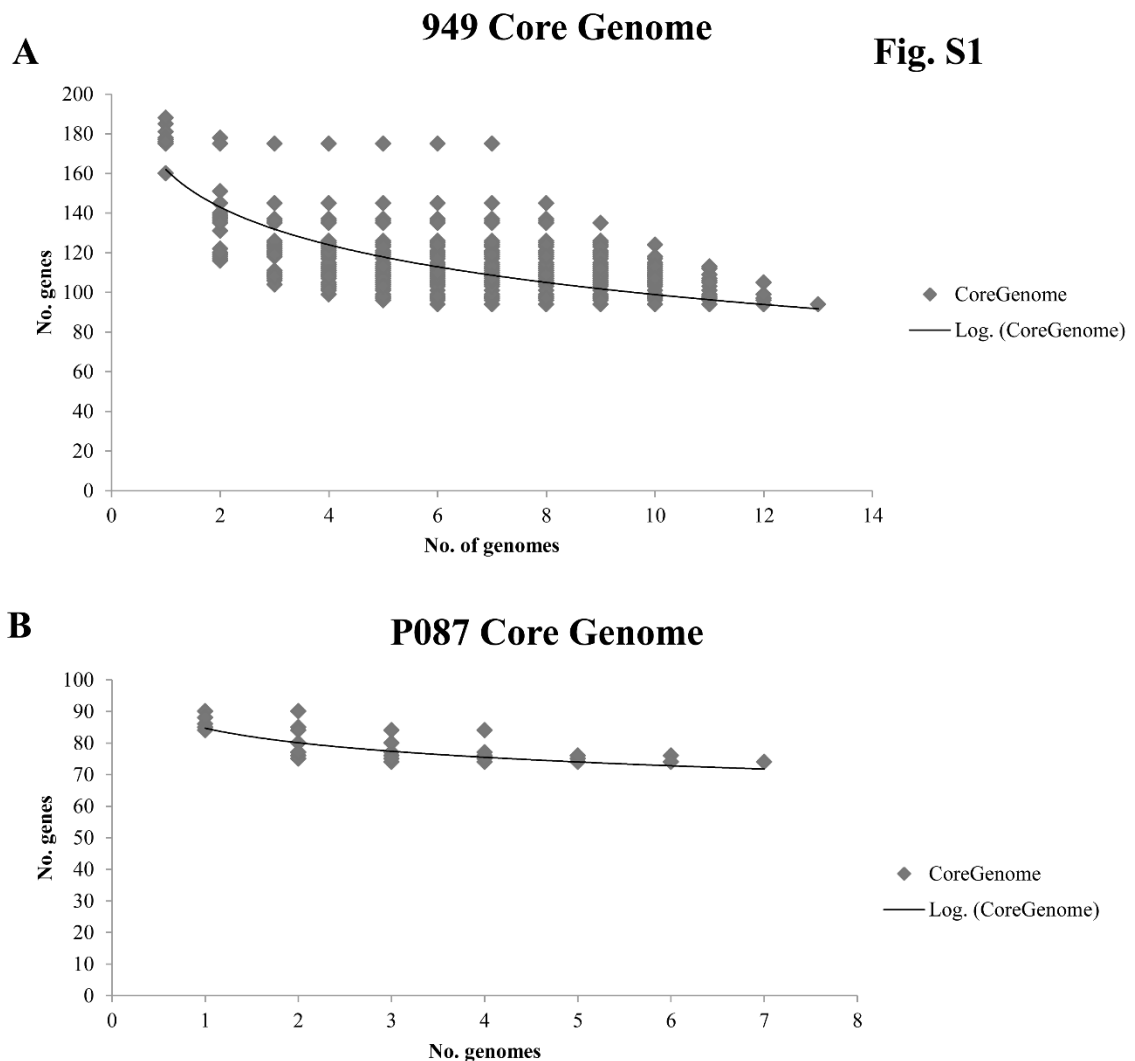


# UCC

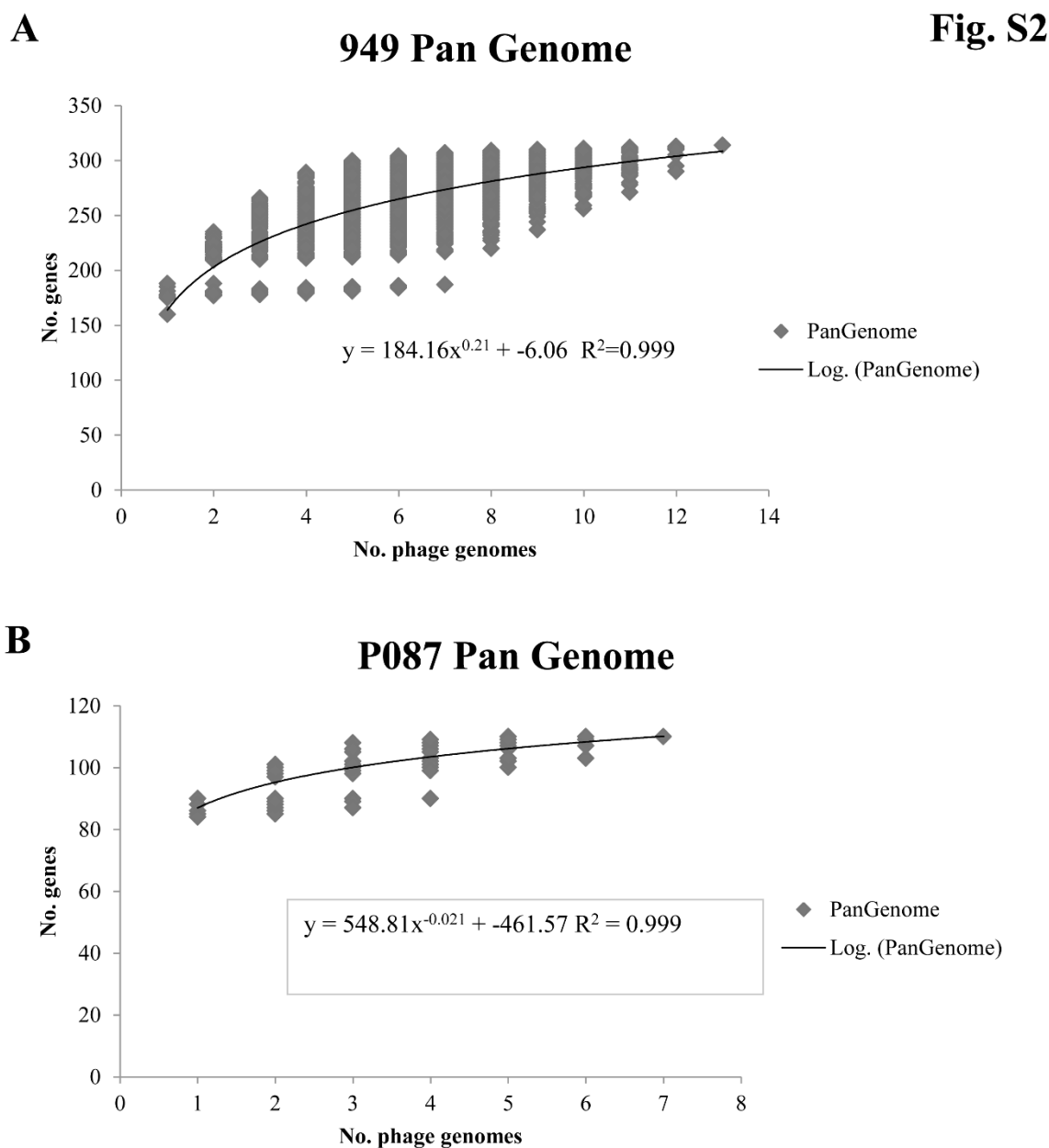
**University College Cork, Ireland**  
Coláiste na hOllscoile Corcaigh

# Supplementary Materials: Phage Biodiversity in Artisanal Cheese Wheys Reflects the Complexity of the Fermentation Process

Jennifer Mahony, Angelo Moscarelli, Philip Kelleher, Gabriele A. Lugli, Marco Ventura, Luca Settanni and Douwe van Sinderen



**Figure S1.** Core genome analysis of the sequenced members of the 949 (A) and P087 (B) phage groups using the PGAP pipeline where the number of genes is plotted as a function of the number of genomes (7 P087 phage genomes and 13 949 phage genomes) sequentially added. The number of core genes for the phage groups were determined as 94 and 74 for the 949 and P087 phage groups, respectively. The depicted curves represent the lines of best fit with  $R^2$  values of 0.986 and 0.998 for the 949 and P087 phages, respectively. No.: Number.



**Figure S2.** Pan-genome analysis of the sequenced members of the 949 (A) and P087 (B) phage groups using the PGAP pipeline. The pan-genomes of both phage groups appear closed having exponential values ( $x^n$ ) of <0.5.

