

LONDON
SCHOOL of
HYGIENE
& TROPICAL
MEDICINE



Mlacha, SZ; Romero-Steiner, S; Hotopp, JC; Umar, N; Ishmael, N; Riley, DR; Farooq, U; Creasy, TH; Tallon, LJ; Liu, X; Goldsmith, CS; Sampson, J; Carlone, GM; Hollingshead, SK; Scott, JA; Tettelin, H (2013) Phenotypic, genomic, and transcriptional characterization of *Streptococcus pneumoniae* interacting with human pharyngeal cells. *BMC Genomics*, 14. p. 383. ISSN 1471-2164 DOI: <https://doi.org/10.1186/1471-2164-14-383>

Downloaded from: <http://researchonline.lshtm.ac.uk/1105536/>

DOI: [10.1186/1471-2164-14-383](https://doi.org/10.1186/1471-2164-14-383)

Usage Guidelines

Please refer to usage guidelines at <http://researchonline.lshtm.ac.uk/policies.html> or alternatively contact researchonline@lshtm.ac.uk.

Available under license: <http://creativecommons.org/licenses/by/2.5/>

Additional data file 5. G54 wildtype, TIGR4 wildtype and isogenic mutant growth in EMEM without L-glutamine and supplemented with 7% fetal bovine serum. At predetermined time points over a 3-h incubation period, culture was plated for enumeration. The error bars indicate SD between three replicate experiments. A) Growth of wildtype strains G54 and TIGR4Z5. P value as determined by t-test at 120 min; B) Growth of wild type strain TIGR4Z5 and its isogenic mutants.

