

**Table S1. Tools used for labeling host cells during pathogen co-culture**

[Click here to Download Table S1](#)

**References**

- Aubey, F., Corre, J. P., Kong, Y., Xu, X., Obino, D., Goussard, S., Lapeyrere, C., Souphron, J., Couturier, C., Renard, S., et al.** (2019). Inhibitors of the *Neisseria meningitidis* PilF ATPase provoke type IV pilus disassembly. *Proc. Natl. Acad. Sci. U. S. A.* **116**, 8481–8486.
- Bain, C., Keller, R., Collington, G. K., Trabulsi, L. R. and Knutton, S.** (1998). Increased levels of intracellular calcium are not required for the formation of attaching and effacing lesions by enteropathogenic and enterohemorrhagic *Escherichia coli*. *Infect. Immun.* **66**, 3900–3908.
- Barrila, J., Yang, J., Crabbé, A., Sarker, S. F., Liu, Y., Ott, C. M., Nelman-Gonzalez, M. A., Clemett, S. J., Nydam, S. D., Forsyth, R. J., et al.** (2017). Three-dimensional organotypic co-culture model of intestinal epithelial cells and macrophages to study *Salmonella enterica* colonization patterns. *NPJ microgravity* **3**, 10.
- Capasso, D., Pepe, M. V., Rossello, J., Lepanto, P., Arias, P., Salzman, V. and Kierbel, A.** (2016). Elimination of *Pseudomonas aeruginosa* through efferocytosis upon binding to apoptotic cells. *PLoS Pathog.* **12**, e1006068.
- Carvalho, H. M., Teel, L. D., Goping, G. and O'Brien, A. D.** (2005). A three-dimensional tissue culture model for the study of attach and efface lesion formation by enteropathogenic and enterohaemorrhagic *Escherichia coli*. *Cell. Microbiol.* **7**, 1771–1781.
- Ernstsen, C. L., Login, F. H., Jensen, H. H., Nørregaard, R., Møller-Jensen, J. and Nejsum, L. N.** (2017). Detection and quantification of intracellular bacterial colonies by automated, high-throughput microscopy. *J. Microbiol. Methods* **139**, 37–44.
- Kim, H. J., Li, H., Collins, J. J. and Ingber, D. E.** (2016). Contributions of microbiome and mechanical deformation to intestinal bacterial overgrowth and inflammation in a human gut-on-a-chip. *Proc. Natl. Acad. Sci. U. S. A.* **113**, E7–E15.
- Knodler, L. A., Vallance, B. A., Celli, J., Winfree, S., Hansen, B., Montero, M. and Steele-Mortimer, O.** (2010). Dissemination of invasive *Salmonella* via bacterial-induced extrusion

- of mucosal epithelia. *Proc. Natl. Acad. Sci. U. S. A.* **107**, 17733–17738.
- Kortebi, M., Milohanic, E., Mitchell, G., Péchoux, C., Prevost, M.-C., Cossart, P. and Bierne, H.** (2017). *Listeria monocytogenes* switches from dissemination to persistence by adopting a vacuolar lifestyle in epithelial cells. *PLoS Pathog.* **13**, e1006734.
- Marrazzo, P., Maccari, S., Taddei, A., Bevan, L., Telford, J., Soriani, M. and Pezzicoli, A.** (2016). 3D reconstruction of the human airway mucosa *in vitro* as an experimental model to study NTHi infections. *PLoS One* **11**, e0153985.
- Mostowy, S., Bonazzi, M., Hamon, M. A., Tham, T. N., Mallet, A., Lelek, M., Gouin, E., Demangel, C., Brosch, R., Zimmer, C., et al.** (2010). Entrapment of intracytosolic bacteria by septin cage-like structures. *Cell Host Microbe* **8**, 433–444.
- Rajan, S., Cacalano, G., Bryan, R., Ratner, A. J., Sontich, C. U., van Heerckeren, A., Davis, P. and Prince, A.** (2000). *Pseudomonas aeruginosa* induction of apoptosis in respiratory epithelial cells: analysis of the effects of cystic fibrosis transmembrane conductance regulator dysfunction and bacterial virulence factors. *Am. J. Respir. Cell Mol. Biol.* **23**, 304–312.
- Uotani, T., Murakami, K., Uchida, T., Tanaka, S., Nagashima, H., Zeng, X. L., Akada, J., Estes, M. K., Graham, D. Y. and Yamaoka, Y.** (2019). Changes of tight junction and interleukin-8 expression using a human gastroid monolayer model of *Helicobacter pylori* infection. *Helicobacter* **24**, e12583.
- Velle, K. B. and Campellone, K. G.** (2017). Extracellular motility and cell-to-cell transmission of enterohemorrhagic *E. coli* is driven by EspFU-mediated actin assembly. *PLoS Pathog.* **13**, e1006501.
- Walker, W. T., Jackson, C. L., Allan, R. N., Collins, S. A. A., Kelso, M. J., Rineh, A., Yepuri, N. R., Nicholas, B., Lau, L., Johnston, D., et al.** (2017). Primary ciliary dyskinesia ciliated airway cells show increased susceptibility to *Haemophilus influenzae* biofilm formation. *Eur. Respir. J.* **50**, 1700612.
- Weight, C. M., Venturini, C., Pojar, S., Jochems, S. P., Reiné, J., Nikolaou, E., Solórzano, C., Noursadeghi, M., Brown, J. S., Ferreira, D. M., et al.** (2019). Microinvasion by *Streptococcus pneumoniae* induces epithelial innate immunity during colonisation at the human mucosal surface. *Nat. Commun.* **10**, 3060.