

- Moritz, M. M., Flemming, H. C. & Wingender, J. 2010 Integration of *Pseudomonas aeruginosa* and *Legionella pneumophila* in drinking water biofilms grown on domestic plumbing materials. *Int. J. Hyg. Environ. Health* **213**, 190–197.
- Mukai, T., Miyamoto, Y., Yamazaki, T. & Makino, M. 2006 Identification of *Mycobacterium* species by comparative analysis of the dnaA gene. *FEMS Microbiol. Lett.* **254**, 232–239.
- Nishiuchi, Y., Maekura, R., Kitada, S., Tamaru, A., Taguri, T., Kira, Y., Hiraga, T., Hirotani, A., Yoshimura, K., Miki, M. & Ito, M. 2007 The recovery of *Mycobacterium avium-intracellulare* complex (MAC) from the residential bathrooms of patients with pulmonary MAC. *Clin. Infect. Dis.* **45**, 347–351.
- Nishiuchi, Y., Tamura, A., Kitada, S., Taguri, T., Matsumoto, S., Tateishi, Y., Yoshimura, M., Ozeki, Y., Matsumura, N., Ogura, H. & Maekura, R. 2009 *Mycobacterium avium* complex organisms predominantly colonize in the bathtub inlets of patients' bathrooms. *Jpn. J. Infect. Dis.* **62**, 182–186.
- Pandey, B. D., Poudel, A., Yoda, T., Tamaru, A., Oda, N., Fukushima, Y., Lekhak, B., Risal, B., Acharya, B., Sapkota, B., Nakajima, C., Taniguchi, T., Phetsuksiri, B. & Suzuki, Y. 2008 Development of an in-house loop-mediated isothermal amplification (LAMP) assay for detection of *Mycobacterium tuberculosis* and evaluation in sputum samples of Nepalese patients. *J. Med. Microbiol.* **57**, 439–443.
- Park, H., Kim, C., Park, K. H. & Chang, C. L. 2006 Development and evaluation of triplex PCR for direct detection of mycobacteria in respiratory specimens. *J. Appl. Microbiol.* **100**, 161–167.
- Pawlowski, D. R., Metzger, D. J., Raslawsky, A., Howlett, A., Siebert, G., Karalus, R. J., Garrett, S. & Whitehouse, C. A. 2011 Entry of *Yersinia pestis* into the viable but nonculturable state in a low-temperature tap water microcosm. *PLoS One* **6**, e17585.
- Prince, A. M. & Andrus, L. 1992 PCR: how to kill unwanted DNA. *Biotechniques* **12**, 358–360.
- Roszak, D. B. & Colwell, R. R. 1987 Survival strategies of bacteria in the natural environment. *Microbiol. Rev.* **51**, 365–379.
- Soini, H. & Musser, J. M. 2001 Molecular diagnosis of mycobacteria. *Clin. Chem.* **47**, 809–814.
- Suzuki, Y., Katsukawa, C., Inoue, K., Yin, Y., Tasaka, H., Ueba, N. & Makino, M. 1995 Mutations in rpoB gene of rifampicin resistant clinical isolates of *Mycobacterium tuberculosis* in Japan. *Kansenshogaku Zasshi* **69**, 413–419.
- Wallace Jr, R. J., Zhang, Y., Brown, B. A., Dawson, D., Murphy, D. T., Wilson, R. & Griffith, D. E. 1998 Polyclonal *Mycobacterium avium* complex infections in patients with nodular bronchiectasis. *Am. J Respir. Crit. Care Med.* **158**, 1235–1244.
- Wallace Jr, R. J., Zhang, Y., Brown-Elliott, B. A., Yakrus, M. A., Wilson, R. W., Mann, L., Couch, L., Girard, W. M. & Griffith, D. E. 2002 Repeat positive cultures in *Mycobacterium intracellulare* lung disease after macrolide therapy represent new infections in patients with nodular bronchiectasis. *J. Infect. Dis.* **186**, 266–273.

First received 4 January 2013; accepted in revised form 12 October 2013. Available online 25 November 2013

