

Candidate for a position in the TBNET steering committee



Position of interest: Non-tuberculous mycobacteria (NTM)

Name: Jose Domínguez

Current affiliation:

- Senior Researcher. Servei de Microbiologia. Fundació Institut d'Investigació en Ciències de la Salut Germans Trias i Pujol. Badalona. Barcelona. Spain.
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Qualifications for this position (max. 12 lines):

I am a clinical microbiologist and develop my professional activity in the *Fundació Institut d'Investigació en Ciències de la Salut Germans Trias i Pujol*. I did a post-doctoral stage in the Respiratory and Systemic Infection Laboratory of the Health Protection Agency in Collindale (United Kingdom) working in molecular pyrosequencing method for the diagnosis of TB, detection of the mutations related with resistance, and molecular identification of NTM.

I have been working in the development and evaluation of new methods for the diagnosis of respiratory tract infections and tuberculosis in the last 15 years. I have experience as clinical microbiologist in the laboratory and clinical management of NTM infection. We have evaluated different molecular methods in the identification of NTM. We have received several grants from Spanish Government and Scientific Societies for the development of research projects related with immunodiagnosis of TB. Now we have focused our attention in the role of the IGRAs in the diagnosis of NTM infections. We have presented a new project in the TBNET meeting held in Viena related with the role of NTM effect in the diagnosis of TB infection.

I am a member of the TBNET from the beginning of its foundation. I have collaborated in different projects and I have participated in some TBNET publications. I am a member of the steering committee of the Tuberculosis Research Integrated Programme of the Spanish Society of Pneumology.

If I achieve the position I will try to promote collaborative projects between the TBNET members across all Europe, in order to improve the knowledge of all aspects involved in the epidemiology, diagnosis and pathogenesis of NTM infections.

TBNET and NTN publications:

Padilla E, Manterola JM, Rasmussen OF, Lonca J, **Domínguez J**, et al. Evaluation of a fluorescence "in situ" hybridization assay for culture confirmation and differentiation between tuberculous and NTM in smears of liquid cultures by using PNA probes. *Eur J Clin Microbiol Infect Dis*. 2000.19:140-5.

Padilla E, Manterola JM, González V, Lonca J, **Domínguez J**, Matas L, Galí N, and Ausina V. Rapid detection of several mycobacterial species using a polymerase chain reaction reverse hybridisation assay. *Eur J Clin Microbiol Infect Dis*. 2001.20:661-665.

D. Goletti, C. Stefania, O. Butera, M. Amicosante, M Ernst, I. Sauzullo, V. Vullo, D. Cirillo, E. Borroni, R. Markova, R. Drenska, **J. Domínguez**, I. Latorre, et al. Accuracy of immunodiagnostic tests for active TB using single and combined results: a multicenter TBNET-study. *PLoS ONE*. 2008.3:e3417.

C. Jafari, S. Thijsen, G. Sotgiu, D. Goletti, **J. Domínguez**, M. Losi, R. Eberhardt, D. Kirsten, B. Kalsdorf, A. Bossink, I. Latorre, G.B. Migliori, A. Strassburg, S. Winteroll, U. Greinert, L. Richeldi, M. Ernst and C. Lange for TBNET. Rapid diagnosis of pulmonary tuberculosis in sputum smear-negative cases: a TBNET Study. *Am J Crit Care Resp Med*. 2009. 180:666-673

Latorre I, De Souza M, Ruiz-Manzano J, Lacoma A, Prat C, Altet N, Ausina V, **Domínguez J**. Evaluating the NTM effect in the tuberculosis infection diagnosis. *Eur Respir J*. 2009. *Accepted*

Other related publications:

Galí N, **Domínguez J**, Blanco S, et al. Utility of an in-house mycobacteriophage-based assay for the rapid rifampin resistance detection in *M. tuberculosis* clinical isolates. *J Clin Microbiol*.2003.41:2647-9.

N. Galí, **J. Domínguez**, S. Blanco, C. Prat, F. Alcaide, P. Coll, V. Ausina. Rapid isoniazid susceptibility assessment of *Mycobacterium tuberculosis* isolates by using a mycobacteriophage-based assay and influence of the resistance level on its performance. *Journal of Clinical Microbiology*. 2006. 44:201-5.

Domínguez J, Ruiz J, De Souza M, et al. Comparison of two commercially available interferon- γ blood tests for immunodiagnosis of tuberculosis infection. *Clin Vaccine Immunol*.2008.15:168-71.

Domínguez J, Latorre I. Role of the T-cell interferon-gamma release assays in preventing reactivation of latent tuberculosis infection in immunosuppressed patients in treatment with anti-TNF agents. *Journal of Crohn's and Colitis*. 2008. 2:250-254

Domínguez J, Blanco S, Lacoma A, et al. Utilidad de la biología molecular en el diagnóstico microbiológico de las infecciones por micobacterias. *Enf Infec Microbiol Clin*. 2008.26 Supl 9:33-41

Ruiz-Manzano J. Blanquer R, Calpe JL, Caminero JA, Caylà J, **Domínguez J**, García J, Vidal R. SEPAR Guidelines. Diagnostic and treatment of tuberculosis. *Arch. Bronconeumol*. 2008. 44: 551-66.

I. Casas, I. Latorre, M. Esteve, J. Ruiz-Manzano, D. Rodriguez, C. Prat, I. García-Olivé, A. Lacoma, V. Ausina, **J. Domínguez**. Evaluation of the interferon-gamma release assays in the diagnosis of recent tuberculosis infection in health care workers. *PLoS ONE*. 2009.4:e6686.

Domínguez J, Latorre I, Altet N, et al. Interferon-gamma release assays to diagnose tuberculosis infection in the immunocompromised individual. *Expert Review Respiratory Medicine*. 2009. 3:309-27.

Domínguez J, De Souza-Galvão M, Ruiz-Manzano J, et al. T-cell responses to the *Mycobacterium tuberculosis*-specific antigens in active tuberculosis patients at the beginning, during and after antituberculosis treatment. *Diagnostic Microbiology and Infectious Diseases*. 2009. 63:45-51

Ribas, Latorre I, Sanvisens A, **Domínguez J**, et al. Prospective evaluation of latent TB with IFN- γ release assays in drug and alcohol abusers. *Epidem Infect*. 2009. doi:10.1017/S0950268809002131.

Latorre I, De Souza-Galvão M, Ruiz-Manzano J, Lacoma A, Prat C, Fuenzalida L, Altet N, Ausina V, **Domínguez J**. Quantitative evaluation of T cell response after specific antigen stimulation in active and LTBI in adults and children. *Diag Microbiol Infect Dis*. 2009. doi:10.1016/j.diagmicrobio.2009.07.015