To the Editor: Mycobacterium yongonense is a recently described species (1) that belongs to the M. avium complex (MAC) and is associated with pulmonary infection. The strain on which the description of species was based was isolated in South Korea from the sputum of a patient with unspecified pulmonary disease. We describe 2 M. yongonense strains isolated from patients in Italy.

Patient 1 was a 74-year-old woman who had experienced fatigue, diarrhea, and weight loss. Her medical history included liver cirrhosis resulting from hepatitis C virus infection and surgery for colon cancer; the patient also reported tuberculosis in childhood. Chest radiograph revealed a cavitary lesion, a finding confirmed by computed tomography scan (Figure). Cultures in liquid and solid media grew a nonchromogenic mycobacterium from sputum and stool samples; results were negative for urine samples.

The patient was treated with clarithromycin, rifabutin, and ethambutol and showed some improvement. A bronchoscopic investigation was performed, and microscopic examination of bronchoalveolar lavage samples revealed the presence of acid-fast bacilli that subsequently were grown in culture. The patient began improving markedly starting with the second month of treatment, which will be continued for a total of 18 months.

Patient 2 was a 74-year-old woman, living in a community of nuns, who reported cough and dyspnea. Her medical history included renal failure and surgery for breast cancer. A bronchoalveolar lavage was performed; samples yielded in culture Pseudomonas aeruginosa and a nonchromogenic mycobacterium.

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### Letters

Letters commenting on recent articles as well as letters reporting cases, outbreaks, or original research are welcome. Letters commenting on articles should contain no more than 300 words and 5 references; they are more likely to be published if submitted within 4 weeks of the original article’s publication. Letters reporting cases, outbreaks, or original research should contain no more than 800 words and 10 references. They may have 1 figure or table and should not be divided into sections. All letters should contain material not previously published and include a word count.
The patient was treated with ce- fepime, to which \textit{P. aeruginosa} was susceptible in vitro, and rapidly improved. The isolation of the nontu- beculous mycobacterium was con- sidered irrelevant, and no specific treatment was undertaken.

To determine the specific myco- bacterium species isolated from these patients, we conducted a commercial line-probe assay (GenoType Myco- bacterium CM; Hain Lifesciences, Nehren, Germany). Both strains were identified as \textit{M. intracellulare}. However, the known cross-reaction of \textit{M. intracellulare} probe with most MAC species led us to determine the complete sequence of the 16S rRNA gene. Both strains showed 100% similarity with \textit{M. yongonense} and \textit{M. marseillense} strains.

To confirm this unusual finding, we investigated other genetic regions. We detected 100% identity with \textit{M. yongonense} in the internal transcribed spacer 1 region and in a 1,384-bp region of the \textit{hsp65} gene and found 2 mismatches in a 420-bp fragment of the \textit{sodA} gene (99.5% similarity). In contrast, \textit{M. marseillense} showed 6 mismatches (98.6% similarity) in the internal transcribed spacer 1 region and 24 (98.3% similarity) in \textit{hsp65}; no \textit{sodA} sequence is available in GenBank for this species. Partial sequencing of other genetic targets not available in GenBank for \textit{M. yongonense} enabled us to confirm the close relatedness of the strains to \textit{M. intracellulare} (100% similarity in \textit{dnaK} gene; 99.3% identity in \textit{gyrB} and \textit{gyrC} genes).

The finding of the same novel \textit{Mycobacterium} species in these 2 unrelated patients reflects variability in the significance of nontuberculous mycobacteria isolated from clinical specimens. \textit{M. yongonense} was probably a contaminant in the second case, but in the first, its involvement as causative agent of disease seems incontrovertible. The specific criteria of the American Thoracic Society for \textit{M. parascrofulaceum} were fulfilled: radiographic imaging clearly documented the presence of a cavitary pulmonary lesion, no other pathogen possibly responsible of disease was detected by bronchoscopic investigation, and the same mycobacterium was isolated repeatedly from sputum (its presence in stool probably results from swallowed sputum) and bronchoalveolar lavage samples. Confirmation is further provided by the response to the specific therapy, according to international guidelines, for MAC pulmonary disease (MICs were 2, 1, and 8 µg/mL for clarithromycin, rifabutin, and ethambutol, respectively).

The initial description of \textit{M. yon- gonense} noted that it has a distinct \textit{rpoB} sequence, identical to that of a distantly related scotochromo- genic species, \textit{M. parascrofulaceum}. In a more recent article, the same authors investigated 2 more strains of \textit{M. yongonense} with similar characteristics and suggested that the recent acquisition of the \textit{rpoB} gene resulted from a lateral gene transfer event from \textit{M. parascrofulaceum}. The \textit{rpoB} genes of the strains we investigated, however, were substantially different from that of \textit{M. scrofulaceum} and were instead related to that of \textit{M. intracellulare} (99.4% similarity) and, less closely, to that of other species belonging to the MAC, including \textit{M. marseillense} (97.4%). Discrepancy in the \textit{rpoB} sequence means some un- certainty remains that our strains are \textit{M. yongonense}, but the 100% identity in major phylogenetically relevant re- gions strongly supports this hypothe- sis and suggests the possibility of a variant of the species preceding the acquisition of the \textit{rpoB} gene from \textit{M. parascrofulaceum}. Less evidence ex- ists for identifying the strains as \textit{M. marseillense} because of the clear di- vergence in the genes investigated, other than 16S rRNA.

The complete epidemiology of \textit{M. youngonense} is unknown, in part be- cause few strains have been identified. However, as in the cases we describe, use of suboptimal identification meth- ods may mean that some isolates have been misidentified as other mycobac- teria species.
GenBank accession numbers for the *M. yongonense* strains identified in this study (FI-13004 and FI-13005) are KF224989–KF224999.

Enrico Tortoli, Alessandro Mariottini, Piera Pierotti, Tullia M. Simonetti, and Gian Maria Rossolini

Author affiliations: San Raffaele Scientific Institute, Milan, Italy (E. Tortoli); Careggi University Hospital, Florence, Italy (A. Mariottini, M.T. Simonetti, G.M. Rossolini); SS. Maria Annunziata Hospital, Florence (P. Pierotti); University of Florence, Florence (G.M. Rossolini); and University of Siena, Siena, Italy (G.M. Rossolini)

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Address for correspondence: Enrico Tortoli, Emerging Bacterial Pathogens Unit, San Gabriele Bldg, San Raffaele Scientific Institute, via Olgettina 58, 20132 Milan, Italy; email: tortoli.enrico@hsr.it

Subcutaneous Infection with *Dirofilaria* spp. Nematode in Human, France

To the Editor: The article by Foissac et al. titled Subcutaneous infection with *Dirofilaria immitis* nematode in human, France (1) presents an interesting and challenging diagnostic dilemma. The paper described, but did not illustrate, the worm as having a strongly ridged external surface of the cuticle—a feature known not to exist on *Dirofilaria immitis*, the dog heartworm. However, molecular sequencing of the specimen demonstrated much closer similarity to *D. immitis* than to *D. repens*, the most common cause of zoonotic subcutaneous dirofilariasis infection in Europe.

Well-described morphologic features of parasites, including in tissue sections, have long been the standard for diagnosis. More recently, molecular diagnostics have helped in many of these difficult cases. However, in some cases, the morphology and molecular diagnosis are discordant. On the basis of the data in the article, the worm does not seem to represent *D. repens*. A more likely possibility is some other species for which no sequences are yet available for comparison. In such a worm, the regions sequenced must be similar to *D. immitis*, and distinct from *D. repens*, to achieve the observed results.

When one encounters a case such as this, where well-validated morphologic features (Figure) are contradictory to the molecular analysis, one must exercise caution in arriving at a final diagnosis. One disadvantage

![Figure](https://example.com/figure.png)

Figure. Cross-section of the filarial nematode seen in the subcutaneous nodule on the thigh of a woman in France. The features, as described in the original report (1), include prominent, longitudinal ridging of the cuticle (arrows), 2 reproductive tubes, and the intestine (asterisk). Scale bar indicates 50 µm. Image courtesy of Jean-Philippe Dales.)