

SEE THE CONNECTION between human health and microbiology

Pictured on the Cover: *Bordetella pertussis* (bacterium that causes whooping cough)

Did you know that every year there are 30–50 million cases of *Bordetella pertussis* resulting in about 300,000 deaths? While a vaccine developed in 1949 significantly lowered infection rates in developed countries, over the last ten years a change in transmission has resulted in a different portion of today's population being susceptible to the bacterium. Today, transmission of *Bordetella pertussis* no longer takes place from child to child, as it did in the pre-vaccination period, but now is transmitted from adults to newborns. Because of this adaptation, all adolescents (ages 11–18) and adults are now advised to receive a booster vaccination to prevent further resurgence.

As a microbiology student preparing for your future career, knowing the biology of bacteria, like *B. pertussis*, the symptoms that pathogenic microorganisms cause, and how best to prevent the spread of infectious diseases, are likely your goals. Tortora/Funke/Case, ***Microbiology: An Introduction, Eleventh Edition***, helps you see the connection between human health and microbiology with:

- Stunning Foundation Figures that focus on the essential concepts in microbiology
- Clinical Case Studies that help you to think critically about each chapter's content and provide you with practical application for your future careers in allied health
- MasteringMicrobiology®—The most widely used and effective online homework and tutoring system delivers self-paced tutorials and individualized coaching, helping you to focus on your course objectives and master the course content.

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