Process of endospore formation in bacteria

l'm not robot!





Figure 1 Bacterial Biofilm Formation - 5 Stages:

ATTACHMENT	GROWTH	MATURATION	DETACHMENT	RE-DEVELOPMENT
P				P
Bacteria attach to a variety of surfaces, from metal, to plastic, to skin tissue, using specialized tail-like structures.	The cells grow and divide, forming a dense matrixed structure, many layers thick. At this stage the biofilm is too thin to be seen	When there are enough bacteria in the developing biofilm the bacteria secrete a slimy extracellular matrix of proteins and polysacrarides	The slime protects the bacteria from the harsh environments, shielding them from many chemicals, antibiotics and immune systems	As the colonies mature, the structures created weaken and cast off bacteria that look for new places to grow and prosper.





Discuss the process of endospore formation in bacteria. What name is given to the process of endospore formation in a bacterial cell. 1. what name is given to the process of endospore formation in a bacterial cell. 2. what name is given to the process of endospore formation in a bacterial cell. 1. what name is given to the process of endospore formation in a bacterial cell. 1. what name is given to the process of endospore formation in a bacterial cell. 1. what name is given to the process of endospore formation in a bacterial cell.

Page ID8850 Boundless Boundless Key PointsKey TermsLICENSES AND ATTRIBUTIONS An endospore is a dormant, tough, and non-reproductive structure produced by certain bacteria from the Firmicute phylum. Endospore formation, the bacterium divides within its cell wall. One side then engulfs the other. Endospores enable bacteria to lie dormant for extended periods, even centuries. When the environment becomes more favorable, the endospore can reactivate itself to the vegetative state. endospore consists of the bacterium's DNA and part of its cytoplasm, surrounded by a very tough outer coating. Endospores can survive without nutrients. They are commonly found in soil and water, where they may survive for long periods of time. Bacteria produce a single endospore morphology: (1, 4) central endospore morphology: (2, 3, 5) terminal endospore; (2, 3, 5) terminal endospore; (2, 3, 5) terminal endospore; (3, 5) terminal endospore morphology: (1, 4) central endospore; (2, 3, 5) terminal endospore morphology: (1, 4) central endospore; (2, 3, 5) terminal endospore; (3, 5) terminal endospore; (3, 5) terminal endospore; (4, 2, 5) terminal endospore; (5, 2, 5) terminal endospore; (6) lateral endospore; (7, 2, 5) terminal endospore; (8, 2, 5) terminal endospore; (9, 2, 5) terminal endospore; (1, 4) terminal endospore; (1, 4) terminal endospore; (2, 3, 5) terminal endospore; (3, 5) terminal endospore; (4, 2, 5) terminal endospore; (6, 2, 5) terminal endospore; (7, 2, 5) terminal endospore; (8, 2, 5) terminal endospore; (8, 2, 5) terminal endospore; (9, 2, 5) terminal endospore; (1, 4) terminal endospore; (1, 4) terminal endospore; (2, 3, 5) terminal endospore; (1, 4) terminal endospore; (2, 3, 5) terminal endospore; (2, 3, 5) terminal endospore; (3, 5) terminal endospore; (4, 5) terminal endospore; (5, 5) terminal endospore; (6, 5) terminal endospore; (7, 5) terminal endospore; (7, 5) terminal endospore; (7, 5) terminal endospore; (8, 5) terminal endospore; (8 rest of a bacterial cell may stain, the endospore is left colorless. To combat this, a special stain technique called a Moeller stain is used. That allows the endospore is the Schaeffer-Fulton stain, which stains endospores green and bacterial bodies red. There are variations in endospore morphology. Examples of bacteria having terminal endospore include Bacillus cereus, and those having a centrally placed endospore include Bacillus subtilis. Sometimes the endospore can be so large that the cell can be distended around the endospore. This is typical of Clostridium tetani. Figure: Bacillus subtilis stained with the Schaeffer-Fulton stain.: A stained preparation of Bacillus subtilis stained with the Schaeffer-Fulton stain. process of endosporulation, which takes about eight hours. The DNA is replicated and a membrane wall known as a spore septum begins to form between it and the cell surrounds this wall and pinches off to leave a double membrane around the DNA, and the developing structure is now known as a forespore. Calcium dipicolinate is incorporated into the forespore during this time. Next the peptidoglycan cortex forms between the two layers and the mature endospore will be released when the surrounding vegetative cell is degraded. While resistant to extreme heat and radiation, endospores can be destroyed by burning or by autoclaving. Endospores are able to survive boiling at 100°C for hours, although the longer the number of hours the fewer that will survive. An indirect way to destroy them is to place them in an environment that reactivates them to their vegetative state. They will germinate within a day or two with the right environmental conditions, and then the vegetative cells can be straightforwardly destroyed. This indirect method is called Tyndallization. It was the usual method for a while in the late 19th century before the advent of inexpensive autoclaves. Prolonged exposure to ionising radiation, such as x-rays and gamma rays, will also kill most endospores. Reactivation of the endospore occurs when conditions are more favourable and involves activation, germinate unless activation, and outgrowth. Even if an endospore is located in plentiful nutrients, it may fail to germinate unless activation has taken place. involves the dormant endospore starting metabolic activity and thus breaking hibernation. It is commonly characterised by rupture or absorption of the endospore, an increase in metabolic activity, and loss of resistance to environmental stress. As a simplified model for cellular differentiation, the molecular details of endospore formation have been extensively studied, specifically in the model organism Bacillus anthracis were used in the 2001 anthraxis and the sigma factor subunits of RNA polymerase. Endospores of the bacterium Bacillus anthracis were used in the 2001 anthraxis and the sigma factor subunits of RNA polymerase. attacks. The powder found in contaminated postal letters was composed of extracellular anthrax endospores. Inhalation, ingestion or skin contamination of these endospores are used as biological indicators when an autoclave is used in sterilization procedures. Bacillus subtilis spores are useful for the expression of recombinant proteins and in particular for the surface display of peptides and proteins as a tool for fundamental and applied research in the fields of microbiology, biotechnology and vaccination. Examples of bacteria that can form endospores include Bacillus and Clostridium. Endospores can survive without nutrients. They are resistant to ultraviolet radiation, desiccation, high temperature, extreme freezing and chemical disinfectants. While resistant to extreme heat and radiation, endospores can be destroyed by burning or by autoclaving. phylum. CC LICENSED CONTENT, SPECIFIC ATTRIBUTION Cell Biology/Cell types/Bacteria. Provided by: Wikibooks. 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Bacterial species have different coping mechanisms with selective harsh environmental conditions One of the most common coping mechanisms for bacteria is forming spores to protect themselves against ecological degrading agents. Bacterial spores are the most dormant form of bacteria are best known for producing intracellular spores called endospores as a survival mechanism. Endospores are highly retractile and thick-walled structures formed inside the bacterial cells. It is most common for its ability to cause foodborne illness as a result of its spores surviving various temperatures. Similarly, C. perfringens spores are acid-soluble proteins that show high resistance to chemicals and heat.[3] They also can survive high temperatures for up to 150°C, making specific Gram-positive species heat resistant. Further, bacterial spores can show typical viability signs at temperatures near the absolute zero. Endospores are resistant to the chemical against ultraviolet radiation, extreme pH gradients, drought, and nutrition depletion. Endospores germinate back into vegetative cells (an active bacterial cell that undergoes metabolism) when surrounding environmental conditions favor bacterial growth and reproduction. Several stimulants revert bacterial cell walls through alteration of their surface tension. The process of spore formation is a multistep process. It starts from replication of the bacterial DNA, followed by the formation of the cellular plasma membrane by extending the second cellular membrane to enclose the forespore with calcium and dipicolinic acid. Finally, the external spore coat surrounds the endospores involves differential staining processes such as malachite green and fluorescence staining techniques. Staining dormant bacterial samples with malachite green as the primary stain and safranine as the counteract stain results in the appearance of green oval endospores inside the bacterial cell. For instance, central endospores are located in the middle of the bacterial cell, while the terminal endospore appears at the end. There is also a subterminal type of endospores that appears between the middle and the end of the cell.[6]Despite their sturdy and resistant nature to environmental threats, endospores can get affected by certain eradication factors. During the 17th century, John Tyndall, a famous European physicist, discovered Tyndallization. The latter is the process of heating liquids and objects at a temperature of 80 to 100°C for 30 minutes; then, the sample is incubated. The procedure is repeated for three consecutive days. reverting them into vegetative cells killed through repetitive heat in the second and third days.[7] Anthrax Bioweapon (Bioterrorism) B. anthracis is a gram-positive spore-forming bacteria that are commonly found in the soil of endemic areas. It is one of the most common agents used in biological warfare. Many factors make B. anthracis a good bioweapon. Its endospores can be placed into food, water, powder, and sprays, spreading the anthrax infection without anyone's knowledge, as endospores are microscopic, cannot be tasted or felt. In 2001, anthrax spores were used as a bioweapon in the U.S. They were distributed into letters delivered by the United States Postal system spreading anthrax infection among 22 mail handlers and customers. Anthracis endospores can be released into food and water, sprayed from the air or high buildings, or even carried on clothes or shoes. 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B. anthracis endospores can be released into food and water, sprayed from the air or high buildings, or even carried on clothes or high buildings, and the air or high buildings, and the air or high b and health.[8] Clostridium difficile Colitis C. difficile infections (CDI) are associated with high morbidity, mortality, and healthcare costs. The cost of CDI is estimated at \$5.4 billion in the United States - \$4.7 billion (86.7%) from healthcare costs. The cost of CDI is estimated at \$5.4 billion in the United States - \$4.7 billion in the United States - \$4.7 billion (86.7%) from healthcare costs. The cost of CDI is estimated at \$5.4 billion in the United States - \$4.7 billion (86.7%) from healthcare costs. The cost of CDI is estimated at \$5.4 billion (86.7%) from healthcare costs. colectomies, discharges to nursing homes, and readmissions.[10] The mortality can be as high as 35% despite surgical intervention.[11] Anthrax: Endospores of B. anthracis cause anthrax. It has four types according to its mode of infection and the affected system: Cutaneous anthraxGastrointestinal anthraxInhalational anthraxInhal edematous blisters that may be itchy. Gastrointestinal anthrax develops as a result of the ingestion of water or food contaminated with B. anthracis endospores. The patients can present with fever, nausea, bloody vomiting, bloody diarrhea, painful swellings of the neck lymph nodes, and flushing of the face and the eyes. Inhalational anthrax results from the inhalation of bacterial endospores while handling contaminated animal materials, such as wools or feces. It characteristically presents with fever, shortness of breath, cough, chest discomfort, body ache, sweating, and nausea.[12]. Injection anthrax develops from using syringes contaminated with bacterial endospores. It clinically presents with the development of deep abscesses under the skin. Appropriate specimen collection is crucial to confirm the diagnosis. For inhalational anthrax, gram stain, PCR, and biopsy of the skin lesion are performed in cutaneous anthrax. Similarly, gram stain, culture, and PCR of ascitic fluid, oral lesion, or rectal swab can be collected in gastrointestinal anthrax. Systemic or disseminated anthrax is treated with a combination of open wounds with C. tetani endospores. The most common lesions owing to tetanus infection are contaminated puncture wounds, infected foot ulcers, surgical wounds, and animal bites. Within the incubation period of tetanus (7 to 10 days), the bacteriated foot ulcers, surgical wounds, and animal bites. picture of tetany. The most common symptoms of tetanus are trismus (stiffness of the jaw muscles), painful body spasms, especially in the neck and abdominal muscles triggered by a noise or physical touch, in addition to difficulties in swallowing and fever. Tetanic contractions strengthen through the course of infection and may cause fractures and pulmonary embolism, which eventually leads to death. The diagnosis of tetanus can be through toxin assays in the blood. Tetanus has no treatment. However, prevention of tetanus is through vaccination given as a series of injections during childhood (with the first delivered at two months of age while the last vaccination given at the age of 4). Also, for further prevention from the infection, booster doses against the toxin are given once every ten years.[13] Food Poisoning include:Bacillus cereus Clostridium perfringesB. cereus endospores are among the leading organisms causing food poisoning. B. cereus food poisoning is divided into emetic and diarrheal subtypes and is caused mainly by the ingestion of raw and contaminated food with B. cereus endospores. Emetic food poisoning results from the ingestion of meat produces, milk, or vegetable contaminated with enterotoxin secreting endospores. Diarrheal syndrome characteristically presents with bloody or mucoid diarrhea and abdominal pain. C. perfringens is naturally present in the intestinal microbiota. Ingestion of food contaminated with human or animal feces containing C. perfringens is naturally present in the intestinal microbiota. to 24 hours following the ingestion of contaminated food and are characterized by abdominal cramps and watery diarrhea. The diagnosis of both bacterial strains can be confirmed by isolating bacteria from feces or vomitus and culturing it on a differential media plate. Patients usually recover without the administration of antibiotics. Supportive treatment with fluid administration is the key due to excessive diarrhea and vomiting.[14] Clostridial myonecrosis (gas gangrene) is a bacterial infection caused by clostridial endospores (especially C. perfringens) and most commonly affects the upper and lower extremities. There are two types of gas gangrene: Traumatic syndromes. The traumatic syndrome is the most common and includes contamination of open wounds with Clostridium endospores. In contrast, the non-traumatic syndrome is the most common and includes contamination of open wounds with Clostridium endospores. atherosclerosis) or diabetes mellitus, leading to clostridial spores and endotoxin-mediated gas gangrene. The common symptoms of gas gangrene are blisters with a foul smell, painful edema around the wound, air under the skin, fever, and jaundice (yellow skin and eyes) at later stages. The diagnosis involves skin culture to test for C. perfringens. Surgical evaluation is necessary to limit the spread of gangrene. The treatment rests on prompt administration of antibiotics and surgical removal of necrotic tissues. Late-stage may require limb amputation.[15] Clostridium difficile is part of the healthy intestinal microbiota. However, overgrowth of the bacteria due to prolonged intake of antibiotics (such as fluoroquinolones, clindamycin, and penicillin) disrupts the balance of colon microbiota, causing pseudomembranous colitis. This syndrome is commonly considered a nosocomial infection. C. difficile colitis contributes to about 15% to 30% of antibiotic-associated diarrhea. watery diarrhea, nausea, mucous in stool, and abdominal cramps. About 8% of C. difficile infections develop a fulminant infection. Foodborne botulism is caused by contamination of food with bacterial endotoxin and spores. Wound botulism is caused by the toxin produced by the colonization of C. botulinum inside open wounds. Intestinal colonization that results from the injection of C. botulinum toxins, such as rarely failed botox injection procedures during cosmetic surgeries. The clinical progress to respiratory muscle paralysis leading to respiratory failure and death. The exact dose of the lethality of botulism toxins is not accurately defined. However, the commonly estimated lethal dose of pure type A botulinum crystalline is about 0.1 micrograms for a 70-kg man.[19]The mortality rates attributed to botulism have improved since 1910 due to the development of intensive care techniques, such as mechanical ventilation.[20] Patients with suspected botulism should be promptly referred to intensive care units with closer monitoring in case of progressive respiratory failure. Paralysis caused by botulinum toxin is prolonged and could last for several weeks or months. Rehabilitation of paralyzed patients is crucial. The treatment of botulism is antitoxin therapy. Antitoxin therapy is usually given during the first 24 hours after the exhibition of symptoms. Botulinum toxin can be absorbed through direct skin contact. Therefore proper isolation and PPE (personal protective equipment) are essential. The diseases associated with bacterial spores can affect different organ systems and present with a myriad of symptoms. An interprofessional team approach by physicians, nurses, pharmacists, physiotherapists, and laboratory personnel is vital for the best patient outcomes. [Level 5]

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