


Burkholderia mallei

Template:Infobox - bakterie

<i>Burkholderia mallei</i>	
<i>Burkholderiaceae</i>	
<i>Burkholderia</i>	
<div></div> <div>Colonies of <i>Burkholderia mallei</i> on blood agar</div>	
Morphology	Good bar
Relation to oxygen	strictly aerobic
Cultivation	common cultivation soils
Transmission	direct contact with a sick animal, inhalation of contaminated dust or aerosol
Incubation time	1-14 days
Disease	fever (acute, chronic)
Diagnostics	cultivation (in case of clinical suspicion, notify the laboratory in advance), serological and skin tests
Therapy	acute: carbapenems, ceftazidime, co-trimoxazole, fluoroquinolones, doxycycline; chronic: up to several months of administration
MeSH ID	D042726

Burkholderia mallei is an exception among other genera, it is a stationary gram-negative rod. It occurs mostly in the tropics and subtropics and can be brought to us from these areas. It causes a disease of solipeds called malleus . When transmitted to humans, it often has lethal consequences.

Taxonomy

The taxonomy of the genus *Burkholderia* is constantly renewed, the current classification is as follows:

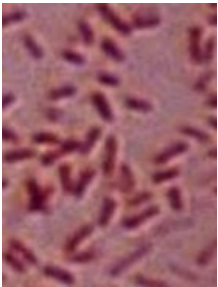
- class **Betaproteobacteria**
- order **Burkholderiales**
- family **Burkholderiaceae**
- genus **Burkholderia**

Links

Related articles

- Burkholderia
- *Burkholderia cepacia*
- *Burkholderia pseudomallei*
- Pseudomonas, Stenotrophomonas, Burkholderia

Reference



Burkholderia mallei
- microscopically

1. BENEŠ, Jiří, et al. *Infectious medicine*. 1st edition. Galén, 2009. 651 pp. 261-262. ISBN 978-80-7262-644-1 .

Použitá literatura

- POVÝŠIL, Ctibor and Ivo ŠTEINER, et al. *General pathology*. 1st edition. Prague: Galén, 2011. 290 pp. Chapter 13: General Oncology. pp. 133-190. ISBN 978-80-7262-773-8 .
- VOTAVA, Miroslav, et al. *Medical microbiology special*. 1st edition. Brno: Neptun, 2003. 495 pp. Chapter 1.1: Gram-negative non-fermenting bacteria. pp. 29-37. ISBN 80-902896-6-5 .
- KAYSER, Fritz H. and Kurt A. BIENZ. *Medical Microbiology*. 1st edition. Germany: Thieme, 2005. 268 pp. 308-311. ISBN 9781588902450 .
- SEDLÁK, Kamil and Markéta TOMŠÍČKOVÁ. *Dangerous infections of animals and humans*. 1st edition. Prague: Scientia, 2006. 167 pp. 147-148. ISBN 80-86960-07-2 .
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Externí odkazy

- Burkholderia description (http://www.jcvi.org/cms/research/past-projects/pathema/overview/?page=burkholderia_description)
- Recent advances in the treatment of Pseudomonas aeruginosa infections in cystic fibrosis (<https://bmcmmedicine.biomedcentral.com/articles/10.1186/1741-7015-9-32>)
- Recent advances in the treatment of Pseudomonas aeruginosa infections in cystic fibrosis (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3087692/>)
- The National Center for Biotechnology Information (<https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi>)

Bacteria	

G +

coke	aerobic	<table><tr><td><i>Micrococcus</i></td><td><i>Micrococcus luteus</i></td></tr><tr><td><i>Rhodococcus</i></td><td><i>Rhodococcus equi</i></td></tr></table>	<i>Micrococcus</i>	<i>Micrococcus luteus</i>	<i>Rhodococcus</i>	<i>Rhodococcus equi</i>	
	<i>Micrococcus</i>	<i>Micrococcus luteus</i>					
	<i>Rhodococcus</i>	<i>Rhodococcus equi</i>					
facultatively anaerobic	<table><tr><td><i>Enterococcus</i></td><td><i>Enterococcus durans</i> • <i>Enterococcus faecalis</i> • <i>Enterococcus faecium</i></td></tr><tr><td><i>Streptococcus</i></td><td><i>Streptococcus agalactiae</i> • <i>Streptococcus mutans</i> • <i>Streptococcus pneumoniae</i> • <i>Streptococcus pyogenes</i> • <i>Streptococcus suis</i> • <i>Oral streptococci</i></td></tr><tr><td><i>Staphylococcus</i></td><td><i>Staphylococcus aureus</i> • <i>Staphylococcus epidermidis</i> • <i>Staphylococcus intermedius</i> • <i>Staphylococcus saprophyticus</i></td></tr></table>	<i>Enterococcus</i>	<i>Enterococcus durans</i> • <i>Enterococcus faecalis</i> • <i>Enterococcus faecium</i>	<i>Streptococcus</i>	<i>Streptococcus agalactiae</i> • <i>Streptococcus mutans</i> • <i>Streptococcus pneumoniae</i> • <i>Streptococcus pyogenes</i> • <i>Streptococcus suis</i> • <i>Oral streptococci</i>	<i>Staphylococcus</i>	<i>Staphylococcus aureus</i> • <i>Staphylococcus epidermidis</i> • <i>Staphylococcus intermedius</i> • <i>Staphylococcus saprophyticus</i>
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anaerobic	<table><tr><td><i>Peptococcus</i></td><td><i>Peptococcus niger</i></td></tr><tr><td><i>Peptostreptococcus</i></td><td><i>Peptostreptococcus anaerobius</i> • <i>Peptostreptococcus prevotii</i> • <i>Peptostreptococcus vaginalis</i></td></tr></table>	<i>Peptococcus</i>	<i>Peptococcus niger</i>	<i>Peptostreptococcus</i>	<i>Peptostreptococcus anaerobius</i> • <i>Peptostreptococcus prevotii</i> • <i>Peptostreptococcus vaginalis</i>		
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sticks	aerobic + facultative anaerobic	<table><tr><td><i>Arcanobacter</i></td><td><i>Arcanobacterium haemolyticum</i></td></tr><tr><td><i>Bacillus</i></td><td><i>Bacillus anthracis</i> • <i>Bacillus cereus</i></td></tr><tr><td><i>Corynebacterium</i></td><td><i>Corynebacterium diphtheriae</i> • <i>Corynebacterium jeikeium</i> • <i>Corynebacterium ulcerans</i> • <i>Corynebacterium urealyticum</i></td></tr><tr><td><i>Erysipelothrix</i></td><td><i>Erysipelothrix rhusiopathiae</i></td></tr><tr><td><i>Listeria</i></td><td><i>Listeria monocytogenes</i></td></tr><tr><td><i>Nocardia</i></td><td><i>Nocardia asteroides</i> • <i>Nocardia brasiliensis</i></td></tr><tr><td><i>Rhodococcus</i></td><td><i>Rhodococcus equi</i></td></tr></table>	<i>Arcanobacter</i>	<i>Arcanobacterium haemolyticum</i>	<i>Bacillus</i>	<i>Bacillus anthracis</i> • <i>Bacillus cereus</i>	<i>Corynebacterium</i>	<i>Corynebacterium diphtheriae</i> • <i>Corynebacterium jeikeium</i> • <i>Corynebacterium ulcerans</i> • <i>Corynebacterium urealyticum</i>	<i>Erysipelothrix</i>	<i>Erysipelothrix rhusiopathiae</i>	<i>Listeria</i>	<i>Listeria monocytogenes</i>	<i>Nocardia</i>	<i>Nocardia asteroides</i> • <i>Nocardia brasiliensis</i>	<i>Rhodococcus</i>	<i>Rhodococcus equi</i>
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<i>Propionibacterium</i>	<i>Propionibacterium acnes</i> • <i>Propionibacterium propionicus</i>															

coke	aerobic	<i>Acinetobacter</i> <i>Acinetobacter calcoaceticus</i>	
		<i>Moraxella</i> <i>Moraxella catarrhalis</i> • <i>Moraxella lacunata</i>	
		<i>Neisseria</i> <i>Neisseria gonorrhoeae</i> • <i>Neisseria meningitidis</i> • Non-pathogenic species of <i>Neisseria</i>	
anaerobic			
	<i>Veillonella</i>	<i>Veillonella alcalescens</i> • <i>Veillonella parvula</i>	

cocobacilli		
	aerobic	<div><i>Rickettsia</i></div> <div><i>Rickettsia prowazekii</i> • <i>Rickettsia rickettsii</i> • <i>Rickettsia typhi</i></div>

aerobic	<i>Alcaligentes</i>	<i>Alkaligentes feacalis</i>
	<i>Bartonella</i>	<i>Bartonella bacilliformis</i> • <i>Bartonella henselae</i> • <i>Bartonella quintana</i>
	<i>Bordetella</i>	<i>Bordetella bronchiseptica</i> • <i>Bordetella parapertussis</i> • <i>Bordetella pertussis</i>
	<i>Brucella</i>	<i>Brucella abortus</i> • <i>Brucella canis</i> • <i>Brucella melitensis</i> • <i>Brucella suis</i>
	<i>Burkholderia</i>	<i>Burkholderia cepacia</i> • <i>Burkholderia mallei</i> • <i>Burkholderia pseudomallei</i>
	<i>Francisella</i>	<i>Francisella tularensis</i>
	<i>Legionella</i>	<i>Legionella pneumophila</i>
	<i>Kingella</i>	<i>Kingella denitrificans</i> • <i>Kingella kingae</i> • <i>Kingella oralis</i>
	<i>Pseudomonas</i>	<i>Pseudomonas aeruginosa</i> • <i>Pseudomonas fluorescens</i>
	<i>Stenotrophomonas</i>	<i>Stenotrophomonas maltophilia</i>

sticks

facultatively
anaerobic

<i>Actinobacillus</i>	<i>Actinobacillus equi</i> • <i>Actinobacillus lignieresii</i>
<i>Aeromonas</i>	<i>Aeromonas caviae</i> • <i>Aeromonas hydrophila</i> • <i>Aeromonas sobria</i>
<i>Afipia</i>	<i>Afipia felis</i>
<i>Citrobacter</i>	<i>Citrobacter freundii</i> • <i>Citrobacter koseri</i>
<i>Eikenella</i>	<i>Eikenella corrodens</i>
<i>Enterobacter</i>	<i>Enterobacter aerogenes</i> • <i>Enterobacter cloacae</i>
<i>Escherichia</i>	<i>Escherichia coli</i>
<i>Haemophilus</i>	<i>Haemophilus ducreyi</i> • <i>Haemophilus haemolyticus</i> • <i>Haemophilus influenzae</i> • <i>Haemophilus parainfluenzae</i>
<i>Klebsiella</i>	<i>Klebsiella granulomatis</i> • <i>Klebsiella oxytoca</i> • <i>Klebsiella pneumoniae</i>
<i>Pasteurella</i>	<i>Pasteurella haemolytica</i> • <i>Pasteurella multocida</i> • <i>Pasteurella ureae</i>
<i>Plesiomonas</i>	<i>Plesiomonas shigelloides</i>
<i>Proteus</i>	<i>Proteus mirabilis</i> • <i>Proteus vulgaris</i>
<i>Salmonella</i>	<i>Salmonella</i> Enteritidis • <i>Salmonella</i> Typhi • <i>Salmonella</i> Paratyphi
<i>Serratia</i>	<i>Serratia marcescens</i>
<i>Shigella</i>	<i>Shigella boydii</i> • <i>Shigella dysenteriae</i> • <i>Shigella flexneri</i> • <i>Shigella sonnei</i>
<i>Vibrio</i>	<i>Vibrio cholerae</i> • <i>Vibrio parahemolyticus</i>
<i>Yersinia</i>	<i>Yersinia enterocolitica</i> • <i>Yersinia pestis</i> • <i>Yersinia pseudotuberculosis</i>

microaerophilic

<i>Campylobacter</i>	<i>Campylobacter coli</i> • <i>Campylobacter fetus</i> • <i>Campylobacter jejuni</i>
<i>Helicobacter</i>	<i>Helicobacter pylori</i>

anaerobic

<i>Bacteroides</i>	<i>Bacteroides fragilis</i> • <i>Bacteroides vulgatus</i>
<i>Fusobacterium</i>	<i>Fusobacterium necrophorum</i> • <i>Fusobacterium nucleatum</i> • <i>Fusobacterium stabile</i>
<i>Leptotricha</i>	<i>Leptotricha buccalis</i>
<i>Mobiluncus</i>	<i>Mobiluncus curtisii</i> • <i>Mobiluncus mulieris</i>
<i>Prevotella</i>	<i>Prevotella melaninogenica</i>
<i>Porphyromonas</i>	<i>Porphyromonas gingivalis</i>

acid resistant	<div>sticks</div> <div> <div>aerobic</div> <div> <i>Mycobacterium</i> <i>Atypical mycobacteria • Mycobacterium tuberculosis • Mycobacterium leprae</i> </div> </div>