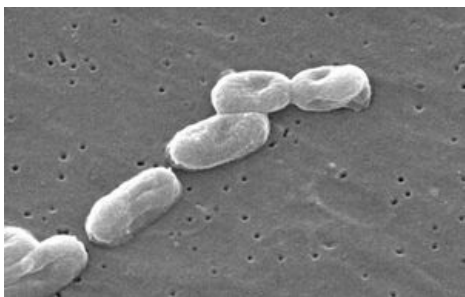


Burkholderia cepacia

<i>Burkholderia cepacia</i>	
<i>Burkholderiaceae</i>	
<i>Burkholderia</i>	
	
Burkholderia Cepacia	
Morphology	G -
Cultivation	selective soils to exclude Pseudomonas aeruginosa colony growth, Burkholderia cepacia agar
Disease	nosocomial infections (especially of the respiratory tract, in patients with cystic fibrosis)
Diagnostics	cultivation of suitable biological material
Therapy	piperacillin, tazobactam , ceftazidime , carbapenems , fluoroquinolones
MeSH ID	D016956

Template:Infobox - bakterie ***Burkholderia cepacia*** is a bacterium originally parasitizing on garlic plants. It is currently gaining in importance as a causative agent of nosocomial infections. High resistance to hospital disinfectants such as Ajatin, Septonex or chlorhexidine makes it exceptional. The bacteria can bind atmospheric carbon dioxide and thanks to this property it can also multiply in distilled water. *B. cepacia* produces exo substances that damage macroorganisms.

It is especially **dangerous for patients with artificial heart valves** or **vascular implants** and for patients with **cystic pulmonary fibrosis**. Among other things, it contributes to infections of the urogenital tract of women caused by nosocomial transmission via a gel used for gynecological examination. Effective treatment has been demonstrated with piperacillin and its protected variants with tazobactam, as well as with ceftazidime, carbapenems or fluoroquinolones. Cultivation of *Burkholderia cepacia* is not demanding, but selective soils are used to exclude the growth of the *Pseudomonas aeruginosa* colony .

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

- *Pseudomonas*, *Stenotrophomonas*, *Burkholderia*
- *Burkholderia*
- *Burkholderia mallei*
- *Burkholderia pseudomallei*

References

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External links

- 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://bmcmicrobiol.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				
	coke	aerobic	<i>Micrococcus</i>	<i>Micrococcus luteus</i>
			<i>Rhodococcus</i>	<i>Rhodococcus equi</i>
		facultatively anaerobic	<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>
G +		anaerobic	<i>Peptococcus</i>	<i>Peptococcus niger</i>
			<i>Peptostreptococcus</i>	<i>Peptostreptococcus anaerobius</i> • <i>Peptostreptococcus prevotii</i> • <i>Peptostreptococcus vaginalis</i>

sticks	aerobic + facultative anaerobic	<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>
anaerobic		<i>Actinomyces</i>	<i>Actinomyces israeli</i> • <i>Actinomyces naeslundii</i>
		<i>Bifidobacterium</i>	<i>Bifidobacterium dentium</i>
		<i>Clostridium</i>	<i>Clostridium botulinum</i> • <i>Clostridium difficile</i> • <i>Clostridium novyi</i> • <i>Clostridium tetani</i> • <i>Clostridium perfringens</i> • <i>Clostridium septicum</i> • <i>Clostridium ulcerans</i>
		<i>Lactobacillus</i>	<i>Lactobacillus acidophilus</i>
		<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 Neisseria
anaerobic		<i>Veillonella</i>	<i>Veillonella alcalescens</i> • <i>Veillonella parvula</i>

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

Go

sticks

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>

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 parahaemolyticus</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>

