SciFinder Web

源于化学,超越化学的一站式检索平台

Case study

肉毒毒素(botulinum toxin)









肉毒杆菌是一种生活在缺氧环境下的 细菌,它本身没有毒性,引起人体疾 病的主要是它分泌的肉毒毒素,肉毒 毒素是目前毒性最强的毒素之一。

恒天然乳品污染事件为虚惊 不含肉毒杆菌

中国网 www.china.com.cn 2013-08-29 07:19

🖶 打印 🗆 转发 🖹 💣 评论

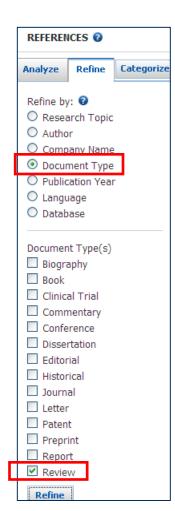
本月初爆发的恒天然出口中国的部分乳制品可能受肉毒杆菌污染事件最终被证实为虚惊一场。昨天,新西兰初级产业部发表声明:经检测,恒天然浓缩乳清蛋白粉中的细菌为生孢梭菌,而非肉毒杆菌,不会产生肉毒毒素;新西兰奶粉没有食品安全问题,请消费者放心。对此,恒天然昨天也发表声明称,对此结果深表欣慰。

肉毒毒素有哪些方面的毒性?最新的检测方法是什么?用SciFinder检索看看。

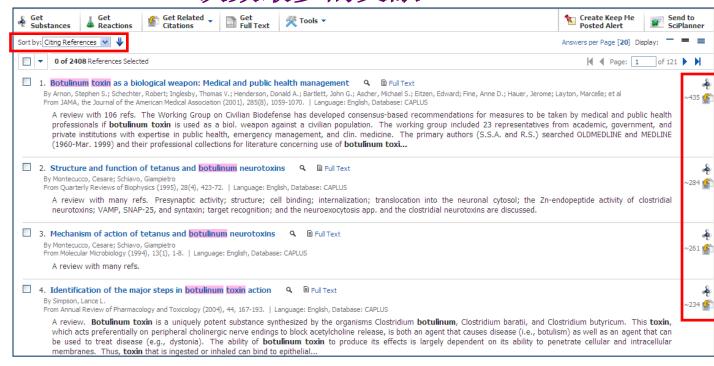
文献检索



通过查找综述快速了解botulinum toxin



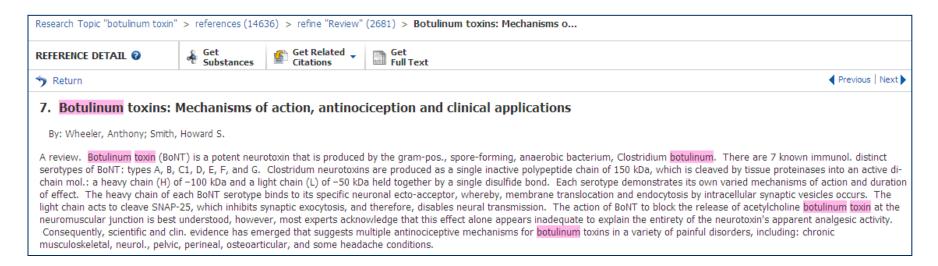
引文排序,找到被引用 次数最多的文献



限定文献类型为"Rview", 快速查找综述

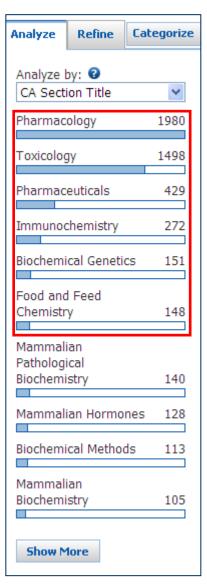
肉毒毒素(botulinum toxin)

- 1、肉毒毒素(botulinum toxin)是由厌氧细菌、肉毒杆菌等产生的含有高分子蛋白的神经毒素
- 2、目前发现肉毒毒素有7种类型,分别是A,B,C1,D,E,F,G型
- 3、肉毒毒素能有效地阻断胆碱能神经介质——乙酰胆碱的释放



肉毒毒素的作用机制、镇痛机制和临床应用

查看botulinum toxin的主要研究领域



通过分析功能(CA Section Title)

可知肉毒毒素的主要研究领域:

药理(Pharmacology)

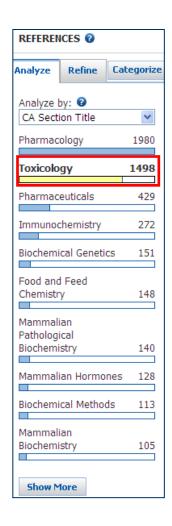
毒理(Toxicology)

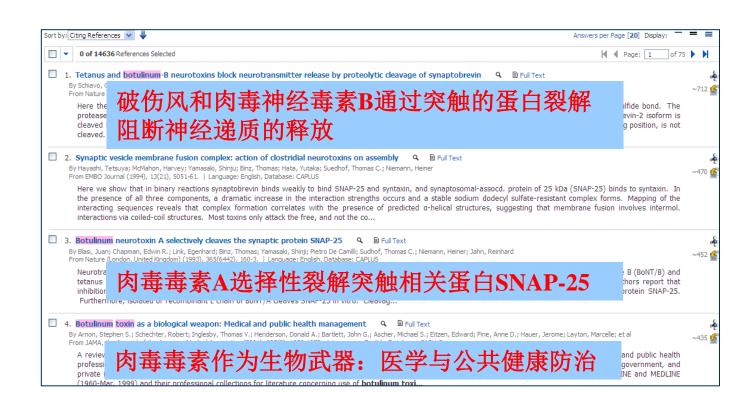
药物(Pharmaceuticals)

免疫化学(Immunochemistry)

食品和饲料(Food and Feed Chemistry)

获取botulinum toxin毒理学研究方面的文献





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肉毒毒素A选择性裂解突触相关蛋白SNAP-25

3. Botulinum neurotoxin A selectively cleaves the synaptic protein SNAP-25 By: Blasi, Juan; Chapman, Edwin R.; Link, Egenhard; Binz, Thomas; Yamasaki, Shinii; Pietro De Camilli; Sudhof, Thomas C.; Niemann, Heiner; Jahn, Reinhard Neurotransmitter release is potently blocked by a group of structurally related toxin proteins produced by Clostridium botulinum. Botulinum neurotoxin type B (BoNT/B) and tetanus toxin (TeTx) are zinc-dependent proteases that specifically cleave synaptobrevin (VAMP), a membrane protein of synaptic vesicles. Here, the authors report that inhibition of transmitter release from synaptosomes caused by botulinum neurotoxin A (BoNT/A) is assocd. with the selective proteolysis of the synaptic protein SNAP-25. Furthermore, isolated or recombinant L chain of BoNT/A cleaves SNAP-25 in vitro. Cleavage occurred near the carboxy-terminus and was sensitive to divalent cation chelators. In addn., a glutamate residue in the BoNT/Al chain, presumably required to stabilize a water mol. in the zinc-contg. catalytic center, was required for proteolytic activity. These findings demonstrate that BoNT/A acts as a zinc-dependent protease that selectively cleaves SNAP-25. Thus, a second component of the putative fusion complex mediating synaptic vesicle exocytosis is targeted by a clostridial neurotoxin. Indexing Toxicology (Section4-5) 文献中出现的主要物质 Substances Concepts Proteins, specific or class 93384-43-1 Botulin A Q SNAP-25, of synaptosome, botulin A cleavage of synaptic protein SNAP-25 cleavage by Biological study Biological study 文献中出现的重要概念, 帮助我们快速了解全文 Synapse synaptosome, protein SNAP-25 of, botulin A cleavage of Supplementary Terms 点击CAS登记号,获得 botulin A synapse protein SNAP25

物质的详细信息

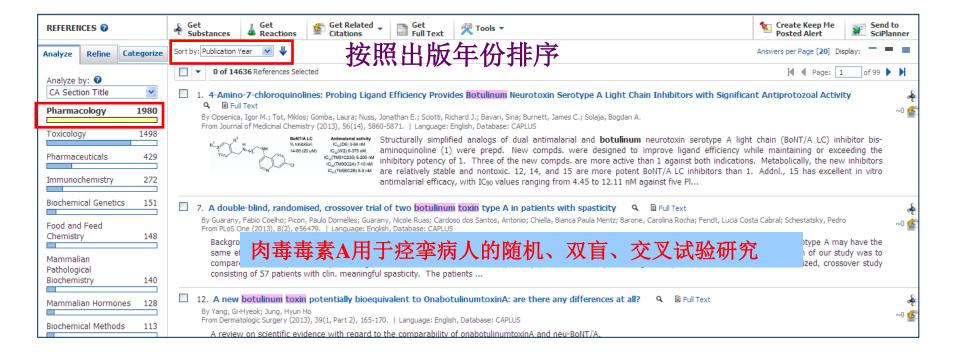
关于Botulin A的全面的物质信息



关于Botulin A的全面的物质信息

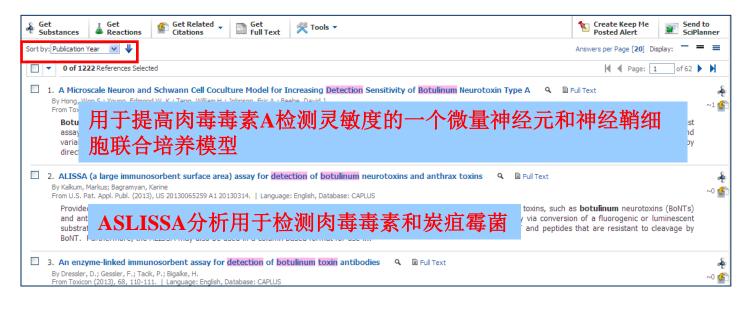
		References		
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romuscular agents > Muscle relaxants		123		
	Target Indica	作用靶点		
			References	
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	Receptors (all) >	Capsaicin receptors	11	
		> SNARE proteins	10	
		> Synaptosome-associated proteins	28	
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获得Botulinum toxin最新的药理研究结果



获得Botulinum toxin最新的检测方法



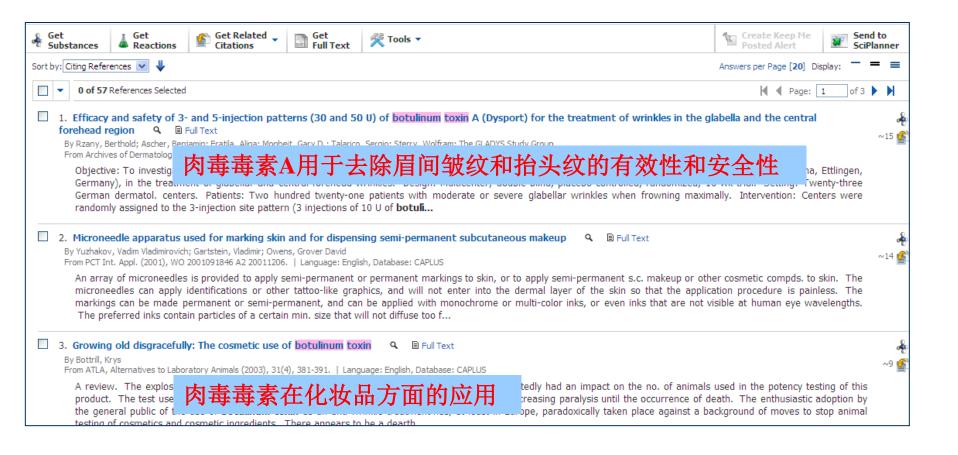


进一步限定研究主题为"detection"

查看Botulinum toxin的应用领域-Categorize



肉毒毒素应用于化妆品领域的文献





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