

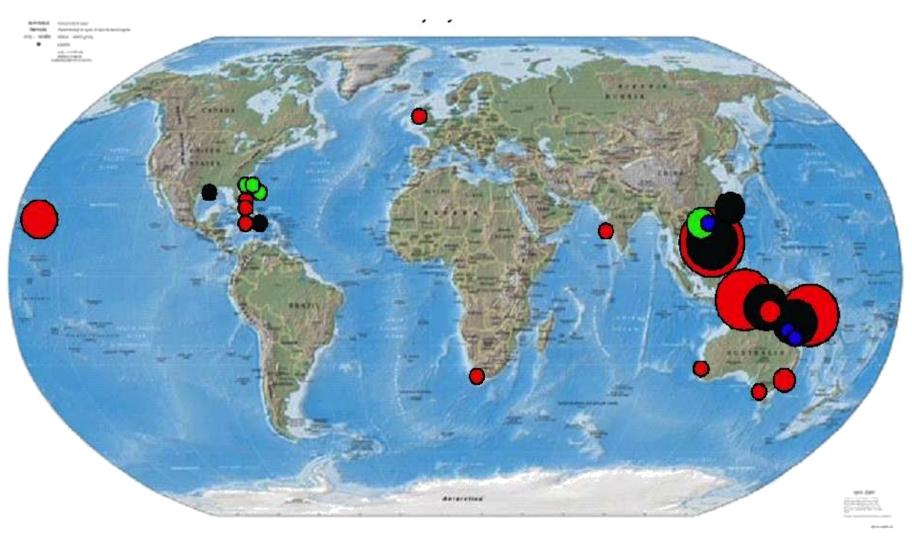




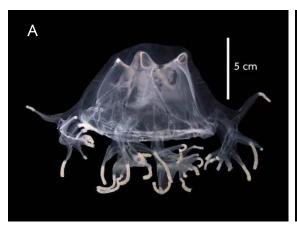
Thai water box jellyfish: species identification, venom biochemistry and toxinological responses



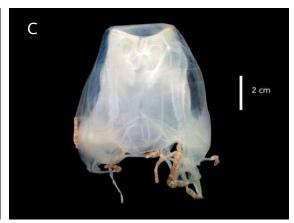
Indo-Pacific Hot Spots for Lethal and Life Threatening Stings



Thai water box jellyfish







แมงกะพรุน (A) Chironex sp. A (B) Chironex sp. B และ (C) Chironex sp. C



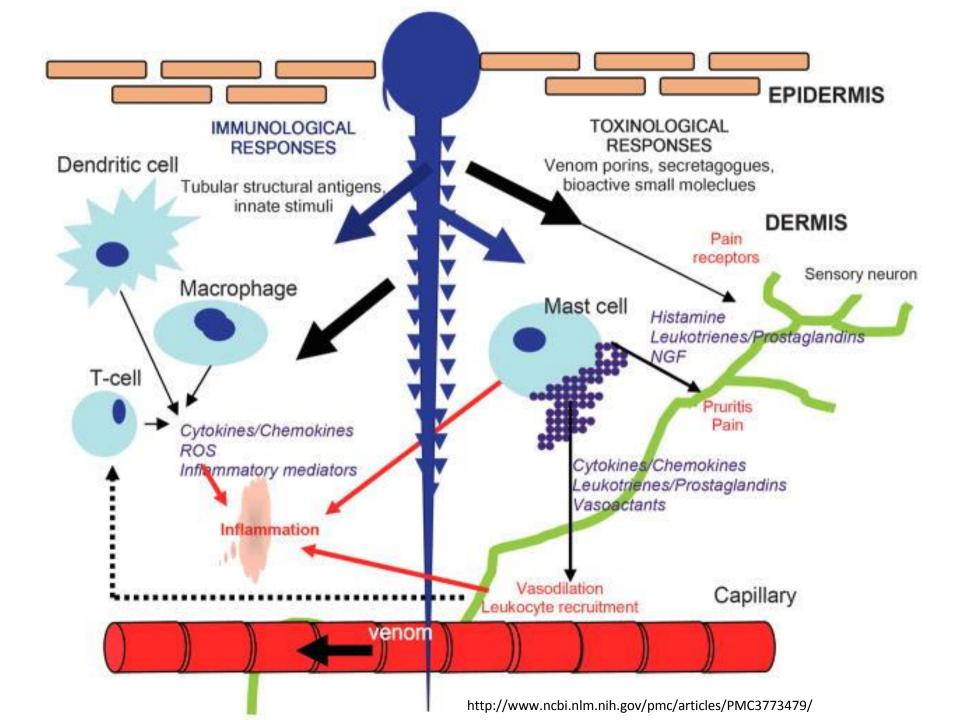




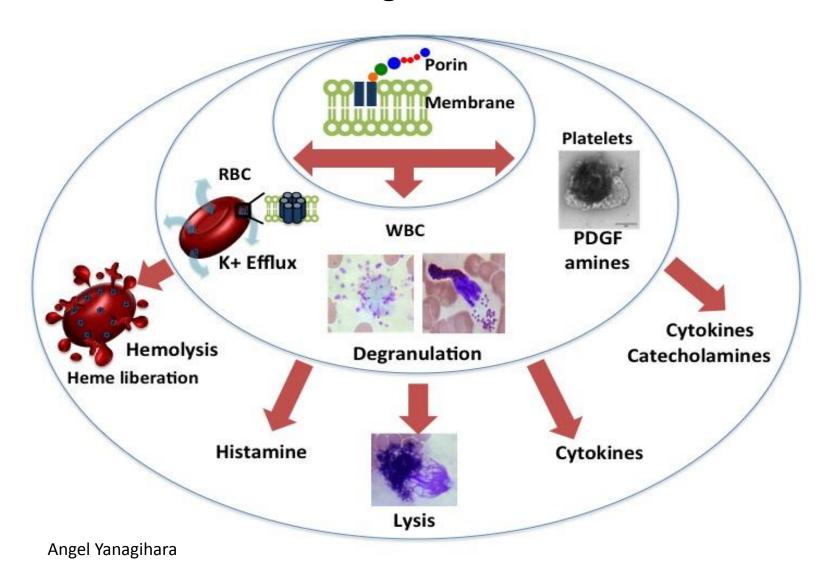
ตัวอย่างแมงกะพรุน ศวทล (A) Morbakka sp. A (B) Morbakka sp. B (C) Morbakka sp. C

Cubozoan Envenomation Pathophysiology

- Physical trauma
 - Nematocyst (penetrant cnidae) structure
 - Explosive nematocyst discharge
- Pathophysiological effects of venom
 - 1º Rapid Porin related cell and tissue effects
 - 1º Slower protease and lipase effects
 - 2° Effects of acute phase host response species



Hypothetical Model Based on in vitro Hematologic and in vivo Data



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