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**Editorial** 

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## Animal Toxins: A better cure of incurable diseases

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Nature has provided several superb natural self defense/offense weapons to his animal creations.

Poison is considered to be most dangerous weapon of nature but it can be converted as greatest boon to protect and to provide a happy living by using it scientifically. Not only their use but only their presence are terrify the enemy but by their intelligent use these animal toxins can be used in treatment of several incurable diseases.

Toxins produced by venomous and poisonous animals have also played a critical role in prey capture. Venoms and poisons from animals have been used as drugs and drug leads for treatment of several incurable human diseases.

We can cure several heart diseases by Chili Rose Spider (found in Chile); Rheumatoid Arthritis can be cured with Honey Bee poison; Cancer, Diabetes, High Blood Pressure and several others are treated with Snake Venom; Migrant, Back Pain can be cured by Leech Poison and venom/saliva of the lizard *Heloderma suspectum* can be used effectively to cure Alzheimer and Diabetes. Snake venoms also used in the treatment of Angina and in Coronary Angioplasty as Anti-platelet Factors. Viperidae venom used for treatment of Hypertension. Poison of cone snail *Conus magus* used in treatment of Chronic Pain. Tetrodotoxin obtained from fish used as Analgesia, Detoxification, Anaesthesia.

Beside as drug, animal toxins are currently also using as Diagnostic Tools. For example Scorpion Venom can be used to detect Cancerous Cells; Snake Venom is useful for the assessment of Fibrinogen degradation products and Hypofibrinogenemias and so on.

Despite high activity this is advantageous that Animal Toxins are very stable compounds, retaining their potency up to several years.