

## Constriction

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==Snakes==Constriction is a method used by various snake species to kill their prey. Although some species of venomous and mildly-venomous snakes do use constriction to subdue their prey, most snakes which use constriction lack venom. The snake initially strikes at its prey and holds on, pulling the prey into its coils or, in the case of very large prey, pulling itself onto the prey. The snake will then wrap one or two coils around the prey. Contrary to myth, the snake does not crush the prey, or even break its bones. Traditionally, it has been thought that snakes hold tightly enough to prevent the prey from drawing air into its lungs, resulting in death from asphyxia. However, some prey items seem to die faster than would be possible through asphyxia, so it has also been suggested that the pressure of constriction causes a rise in the pressure in the prey's body cavity greater than the heart can counter, resulting in immediate cardiac arrest. This new hypothesis has yet to be confirmed, but data indicates that snakes can exert enough pressure for this mechanism to be plausible. Research into this topic is ongoing. Certain groups of snakes have characteristic patterns of constriction, including the number of coils they use and the orientation of the coils. ([From the Wikipedia article Constriction](#).)

### Recent Publications on Constriction:



- [The neuropathy-protective agent acetyl-L-carnitine activates PKCgamma and MAPKs in a rat model of neuropathic pain.](#)  
*PKCgamma is an injury-activated intracellular modulator that boosts...* 21st November, 2009  
University of Florence, Dept. of Preclinical and Clinical Pharmacology,- Neuroscience. 2009 Nov 16. ([DOI Direct Link](#))
- [Diagnostic Utility of Plasma N-Terminal Pro-B-Type Natriuretic Peptide and C-Reactive Protein Levels in Differential Diagnosis of Pericardial Constriction and Restrictive Cardiomyopathy.](#)  
*The authors investigated the diagnostic utility of plasma N-terminal...* 21st November, 2009  
From the Cardiology Department, Kartal Kosuyolu Heart and Research- Congest Heart Fail. 2009 Nov 1;15(6):265-270. ([DOI Direct Link](#))
- [The Role of 20-Hydroxyeicosatetraenoic Acid in Cerebral Arteriolar Constriction and the Inhibitory Effect of Propofol.](#)  
*BACKGROUND: We conducted this study to examine, in cerebral parenchymal...* 20th November, 2009  
Department of Anesthesiology, Wakayama Medical University, 811-1- Anesth Analg. 2009 Dec;109(6):1935-1942. ([DOI Direct Link](#))
- [Characterization of biosynthesis and modes of action of prostaglandin E\(2\) and prostacyclin in guinea pig mesenteric lymphatic vessels.](#)  
*Background and purpose: Rhythmical transient constrictions of the...* 20th November, 2009  
Inflammation Research Network and Smooth Muscle Research Group, Snyder- Br J Pharmacol. 2009 Nov 17. ([DOI Direct Link](#))

- [Adaptive and Maladaptive Effects of SMAD3 Signaling in the Adult Heart After Hemodynamic Pressure Overloading.](#)  
*BACKGROUND: Previous studies suggest that transforming growth factor-beta...* 19th November, 2009  
Sections of Cardiology and Cardiovascular Sciences, and Departments of- Circ Heart Fail. 2009 Nov 1;2(6):633-642. Epub 2009 Sep 24. ([DOI Direct Link](#))
- [A case of Bietti crystalline dystrophy with preserved visual acuity and extinguished electroretinogram: a case report.](#)  
*INTRODUCTION: Progressive night blindness and constriction of the visual...* 18th November, 2009  
Department of Ophthalmology, Farabi Eye Research Center South Kargar- Cases J. 2009 Aug 12;2:7100. ([DOI Direct Link](#))
- [Primary malignant pericardial mesothelioma - a rare cause of pericardial effusion and consecutive constrictive pericarditis: a case report.](#)  
*INTRODUCTION: Primary malignant pericardial mesothelioma is a very rare...* 18th November, 2009  
- J Med Case Reports. 2009 Sep 17;3:9256. ([DOI Direct Link](#))
- [\[Neonatal Volkmann's syndrome.\]](#)  
*BACKGROUND: Acute limb compartment syndrome or Volkmann's ischaemic...* 18th November, 2009  
Service de dermatologie, hopital Caremeau, CHU de Nimes, place du- Ann Dermatol Venereol. 2009 Nov;136(11):785-9. Epub 2009 May 15. ([DOI Direct Link](#))
- [\[Early symptoms and findings in optic nerve meningiomas\]](#)  
*PURPOSE OF THE STUDY: While evaluating radiotherapy results in patients...* 17th November, 2009  
Augenheilkunde, Universitätskliniken Tubingen, Schleichstrasse 12,- Klin Monbl Augenheilkd. 2009 Nov;226(11):869-74. Epub 2009 Nov 13. ([DOI Direct Link](#))
- [Possible Involvement of Ca Activated K Channels, SK Channel, in the Quercetin-Induced Vasodilatation.](#)  
*Effects of quercetin, a kind of flavonoids, on the vasodilating actions...* 17th November, 2009  
Department of Pharmacology, Division of Traditional Herbal Medicine, Nara- Korean J Physiol Pharmacol. 2009 Oct;13(5):361-5. Epub 2009 Oct 31. ([DOI Direct Link](#))
- [Physical determinants of strong voltage sensitivity of K\(+\) channel block.](#)  
*Strong voltage sensitivity of inward-rectifier K(+) (Kir) channels has...* 17th November, 2009  
[1] Department of Physiology, Howard Hughes Medical Institute, University- Nat Struct Mol Biol. 2009 Nov 15. ([DOI Direct Link](#))
- [Kinin B\(1\) and B\(2\) receptors contribute to orofacial heat hyperalgesia induced by infraorbital nerve constriction injury in mice and rats.](#)  
*Mechanisms coupled to kinin B(1) and B(2) receptors have been implicated...* 17th November, 2009  
Department of Pharmacology, Universidade Federal de Santa Catarina,- Neuropeptides. 2009 Nov 13. ([DOI Direct Link](#))
- [Esophagogastric Junction Distensibility After Fundoplication Assessed with a Novel Functional Luminal Imaging Probe.](#)  
*OBJECTIVE: The aim of the study was to compare the esophagogastric...* 17th November, 2009  
Department of Medicine, Feinberg School of Medicine, Northwestern- J Gastrointest Surg. 2009 Nov 13. ([DOI Direct Link](#))
- [Conservation and differences of the Min system in the chloroplast and bacterial division site placement.](#)  
*Chloroplasts are descended from a cyanobacterial endosymbiont and divide...* 13th November, 2009  
Initiative Research Program; Advanced Science Institute; RIKEN; Wako,- Commun Integr Biol. 2009 Sep;2(5):400-2.
- [The Interaction Between the Oropharyngeal Geometry and Aerosols via Pressurised Metered Dose Inhalers.](#)  
*PURPOSE: This study investigated the effect of oropharyngeal geometry on...* 11th November, 2009  
School of Pharmacy & Biomolecular Sciences, Liverpool John Moores- Pharm Res. 2009 Nov 10. ([DOI Direct Link](#))





## Constriction Patents:

- 7611677- [Multi-zone fixed-bed or moving-bed reactor with an integrated heat exchanger](#)
- 7614939- [Chemical mechanical polishing system having multiple polishing stations and providing relative linear polishing motion](#)
- 7614994- [Dunnage converter system](#)
- 7614998- [Fully-implantable cardiac recovery system](#)
- 7615000- [Tissue resection device, system, and method](#)
- 7615011- [Method and apparatus for measuring blood volume, and vital sign monitor using the same](#)
- 7615028- [Extracorporeal blood treatment and system having reversible blood pumps](#)
- 7615064- [Endolumenal gastric ring with suspended impeding member](#)
- 7615191- [Diagnostic devices and apparatus for the controlled movement of reagents without membranes](#)
- 7615345- [Arrays formed of encoded beads having oligonucleotides attached](#)
- 7615364- [Polypeptide having activity of unsaturating W3-fatty acid, polynucleotide coding for the polypeptide and use thereof](#)
- 7614862- [Water-injected screw compressor element](#)
- 7614854- [Multichamber tank for motor vehicles](#)
- 7614614- [Venturi apparatus](#)
- 7611678- [Multi-zone moving-bed reaction device with an addition of regenerated or fresh catalyst in each zone](#)
- 7611832- [Human G protein-coupled receptor and modulators thereof for the treatment of ischemic heart disease and congestive heart failure](#)
- 7611851- [Canis sphingosine 1-phosphate receptor isoform 1](#)
- 7611900- [High throughput screening methods for lubricating oil compositions](#)
- 7612096- [Methods for treatment, modification and management of radiculopathy using 1-oxo-2-\(2,6-dioxopiperidin-3yl\)-4-aminoisoindoline](#)
- 7612250- [Nuclear transfer embryo formation method](#)
- 7612795- [Enhancement of visual perception III](#)
- 7613488- [Apparatus and methods for compensation of blood volume effects on NIR spectroscopic measurements of blood analytes](#)
- 7614152- [Pultruded trim members](#)
- 7614295- [Flow sensor](#)
- 7615548- [Method to inhibit ischemia and reperfusion injury](#)
- 7615563- [Compositions useful as inhibitors of voltage-gated sodium channels](#)
- 7618159- [Vented iris control for luminaire](#)
- 7618182- [Dust-free low pressure mixing system with jet ring adapter](#)
- 7618307- [Direct linking of sausage filling and clipping machine and sausage conveyor apparatus](#)
- 7618449- [Method and apparatus for tissue connection](#)
- 7618459- [Universal spinal disc implant system](#)
- 7618984- [Sulfonamide compound](#)
- 7619241- [Variable capacitor single-electron transistor including a P-N junction gate electrode](#)
- 7619350- [Arc discharge vessel having arc centering structure and lamp containing same](#)
- 7619364- [UV continuous spectrum lamp and its lighting device](#)
- 7620087- [Radiation-emitting semiconductor component](#)
- 7618143- [Pupilometer](#)

- 7617950- [Controlling flow from multi-chamber containers](#)
- 7617793- [Vessel provided with a foil situated below the waterline](#)
- 7615564- [Isoquinoline derivatives having kinasae inhibitory activity and drugs containing the same](#)
- 7615570- [Antagonists to the vanilloid receptor subtype 1 \(VR1\) and uses thereof](#)
- 7615662- [Process for the preparation of isocyanates in the gas phase](#)
- 7615664- [Phenyloctanamides](#)
- 7615883- [Wind driven venturi turbine](#)
- 7615995- [Thin film device for detection of physical quantities](#)
- 7616310- [Process for determining the particle size distribution of an aerosol and apparatus for carrying out such a process](#)
- 7616852- [Optical substrate, optical waveguide, and optical waveguide substrate](#)
- 7617005- [Methods and apparatus for thermally-induced renal neuromodulation](#)
- 7617630- [Method and apparatus for exterminating subterranean burrowing animals](#)
- 7620451- [Methods and apparatus for pulsed electric field neuromodulation via an intra-to-extravascular approach](#)

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Send comments and feedback to:

Peter Barfoot Managing Director, BioPortfolio Ltd.

UK Tel: (+44) 1300 321501

USA Voicemail and Fax: (+1) 415 680 2472

[Peter Barfoot peter.barfoot@bioportfolio.com](mailto:peter.barfoot@bioportfolio.com)

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