

Shivering

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Shivering is a bodily function in response to early hypothermia in warm-blooded animals. When the core body temperature drops, the shivering reflex is triggered. Muscle groups around the vital organs begin to shake in small movements in an attempt to create warmth by expending energy. Shivering can also be a response to a fever as a person may feel cold, though their core temperature is already elevated. Located in the dorsomedial portion of the hypothalamus near the wall of the third ventricle is an area called the primary motor center for shivering. This area is normally inhibited by signals from the heat center in the anterior hypothalamic-preoptic area but is excited by cold signals from the skin and spinal cord. Therefore, this center becomes activated when the body temperature falls even a fraction of a degree below a critical temperature level. ([From the Wikipedia article Shivering](#).)

Recent Publications on Shivering:



- [Transient shivering during Wada test provides insight into human thermoregulation.](#)
Purpose: Some patients with pharmaco-resistant epilepsy undergoing the Wada... 19th November, 2009
Department of Neurology, Wayne State University, Detroit Medical Center,- *Epilepsia*. 2009 Nov 16. ([DOI Direct Link](#))
- [Episodic spontaneous hypothermia potentially triggered by hyperinsulinemia.](#)
Episodic spontaneous hypothermia is an infrequent disorder, the pathogenic... 18th November, 2009
Department of Pediatrics, University of Chieti, Chieti, Italy.- *Horm Res*. 2009;72(2):124-8. Epub 2009 Aug 18. ([DOI Direct Link](#))
- [Septic Complication After Balloon-Occluded Retrograde Transvenous Obliteration of Duodenal Variceal Bleeding.](#)
We report a 64-year-old woman with duodenal varices who underwent... 11th November, 2009
Department of Radiology, Kyoto University Graduate School of Medicine,- *Cardiovasc Intervent Radiol*. 2009 Nov 10. ([DOI Direct Link](#))
- [Increased mass of slow-type skeletal muscles and depressed myostatin gene expression in cold-tolerant chicks.](#)
Temperature is maintained in birds by skeletal muscle shivering as well as... 7th November, 2009
Graduate School of Life and Environmental Sciences, University of Tsukuba,- *Zoolog Sci*. 2009 Apr;26(4):277-83.
- [A randomized controlled trial of pentazocine versus ondansetron for the treatment of intrathecal morphine-induced pruritus in patients undergoing cesarean delivery.](#)
BACKGROUND: Ondansetron is effective for the treatment of intrathecal... 6th November, 2009
Program in Clinical Epidemiology, Faculty of Medicine, Chiang Mai- *Anesth Analg*. 2009 Nov;109(5):1606-11. ([DOI Direct Link](#))
- [Controlled hypotension for middle ear surgery: a comparison between remifentanyl and magnesium](#)

[sulphate.](#)

BACKGROUND: This prospective, randomized study was designed to compare... 27th October, 2009
Department of Anesthesiology and Pain Medicine, Seoul National University- Br J Anaesth. 2009
Oct;103(4):490-5. Epub 2009 Aug 17. ([DOI Direct Link](#))

- [Molecular mechanism underlying muscle mass retention in hibernating bats: Role of periodic arousal.](#)
Hibernators like bats show only marginal muscle atrophy during prolonged... 23rd October, 2009
Division of Biological Science and Technology, College of Science and- J Cell Physiol. 2009 Oct 21. ([DOI Direct Link](#))
- [\[Benefit of misoprostol for prevention of postpartum hemorrhage in cesarean section: A randomized controlled trial.\]](#)
OBJECTIVES: To assess the benefit of sublingual misoprostol in addition to... 17th October, 2009
Service de gynecologie-obstetrique, CHU Farhat Hached, Sousse, Tunisie.- J Gynecol Obstet Biol
Reprod (Paris). 2009 Nov;38(7):588-93. Epub 2009 Oct ([DOI Direct Link](#))
- [High-dose diazepam facilitates core cooling during cold saline infusion in healthy volunteers.](#)
Studies have suggested that inducing mild hypothermia improves neurologic... 16th October, 2009
University of Pittsburgh, Department of Emergency Medicine, Pittsburgh, PA- Appl Physiol Nutr Metab.
2009 Aug;34(4):582-6. ([DOI Direct Link](#))
- [Effect of Shivering on Brain Tissue Oxygenation During Induced Normothermia in Patients With Severe Brain Injury.](#)
BACKGROUND: We analyzed the impact of shivering on brain tissue... 13th October, 2009
Department of Neurosurgery, University of Pennsylvania Medical Center,- Neurocrit Care. 2009 Oct 10.
([DOI Direct Link](#))
- [Effects of two glucose ingestion rates on substrate utilization during moderate-intensity shivering.](#)
Although the importance of food consumption to survive in the cold is well... 26th September, 2009
Faculty of Health Sciences, School of Human Kinetics, University of- Eur J Appl Physiol. 2009 Sep 25.
([DOI Direct Link](#))
- [Hypothermia after cardiac arrest.](#)
Mild therapeutic hypothermia (32 degrees C-34 degrees C) is the only... 19th September, 2009
- Prog Cardiovasc Dis. 2009 Sep-Oct;52(2):168-79. ([DOI Direct Link](#))
- [Nefopam but not physostigmine affects the thermoregulatory response in mice via alpha\(2\)-adrenoceptors.](#)
Nefopam, a non-opioid, centrally acting benzoxazocine analgesic, proved to... 12th September, 2009
Department of Anaesthesiology and Intensive Care Medicine, University- Neuropharmacology. 2009
Sep 8. ([DOI Direct Link](#))
- [Defeating normal thermoregulatory defenses: induction of therapeutic hypothermia.](#)
Therapeutic hypothermia may be useful in various circumstances including... 15th August, 2009
Department of Outcomes Research, The Cleveland Clinic, Cleveland, Ohio- Stroke. 2009
Nov;40(11):e614-21. Epub 2009 Aug 13. ([DOI Direct Link](#))
- [Intra-operative fluid warming in elective caesarean section: a blinded randomised controlled trial.](#)
BACKGROUND: We assessed the effect of warming intravenous fluids during... 12th August, 2009
Magill Department of Anaesthesia, Intensive Care and Pain Management,- Int J Obstet Anesth. 2009
Oct;18(4):346-51. Epub 2009 Aug 7. ([DOI Direct Link](#))

BioNews Results for Shivering

- [Effect of Shivering on Brain Tissue Oxygenation During Induced Normothermia in Patients With Severe Brain Injury](#)
MDLinx: Oct 13 2009 10:06AM Matching: shivering



Shivering Patents:

- 7320970- [Low dose estrogen interrupted hormone replacement therapy](#)
- 7379871- [Speech synthesizing apparatus, speech synthesizing method, and recording medium using a plurality of substitute dictionaries corresponding to pre-programmed personality information](#)
- 7384356- [Pulley cover assembly for motorcycle transmission](#)
- 7387638- [System and method using the rectal mucosal membrane for inducing hypothermia and warming](#)
- 7390829- [Alpha-2 adrenergic agonists](#)
- 7391962- [Optical recording/reproducing apparatus having a function of separating luminance and color components](#)
- 7396849- [4-\(Condensed cycloalkylmethyl\)-imidazole-2-thiones acting as .alpha..sub.2 adrenergic agonists](#)
- 7399868- [4-\(Heteroaryl-methyl and substituted heteroaryl-methyl\)-imidazole-2-thiones acting as alpha2 adrenergic agonists](#)
- 7407487- [Temperature sensing system with retrograde sensor](#)
- 7419789- [Method of inhibiting binding of Dengue virus to a human cell with DC-SIGN blockers](#)
- 7419994- [4-\(substituted cycloalkylmethyl\) imidazole-2-thiones, 4-\(substituted cycloalkenylmethyl\) imidazole-2- thiones, 4-\(substituted cycloalkylmethyl\) imidazol-2-ones and 4-\(substituted cyloalkenylmethyl\) imidazol-2-ones and related compounds](#)
- 7377935- [Apparatus for altering the body temperature of a patient](#)
- 7371254- [Medical procedure](#)
- 7364584- [Warming device](#)
- 7323477- [7-\(\(1H-imidazol-4-yl\)methyl\)-5,6,7,8-tetrahydroquinoline](#)
- 7323485- [4-\(substituted cycloalkylmethyl\) imidazole-2-thiones, 4-\(substituted cycloalkenylmethyl\) imidazole-2-thiones, 4-\(substituted cycloalkylmethyl\) imidazol-2-ones and 4-\(substituted cycloalkenylmethyl\) imidazol-2-ones and related compounds](#)
- 7329843- [Electrical heating device particularly for heating a patient body](#)
- 7338962- [Spirocyclic heterocyclic derivatives and methods of their use](#)
- 7345077- [4-\(substituted cycloalkylmethyl\) imidazole-2-thiones, 4-\(substituted cycloalkenylmethyl\) imidazole-2-thiones, 4- \(substituted cycloalkylmethyl\) imidazol-2-ones and 4- \(substituted cycloalkenylmethyl\) imidazol-2-ones and related compounds](#)
- 7351254- [Method and device for patient temperature control employing optimized rewarming](#)
- 7351410- [Treatment of Pompe's disease](#)
- 7358269- [2-\(\(2-Thioxo-2,3-dihydro-1H-imidazol-4-yl\)methyl\)-3,4-dihydronaphthalen-1\(2- H\)-one](#)
- 7361186- [Active body cooling with vasodilation to reduce body temperature](#)
- 7361666- [Heterocyclic analgesic compounds and methods of use thereof](#)
- 7422600- [Method and apparatus for patient temperature control employing administration of anti-shivering agents](#)
- 7429324- [Device for in-line preparation of liquid for an extracorporeal blood treatment apparatus](#)
- 7521064- [Non-hormonal vaginal contraceptive](#)
- 7547515- [Methods for detection of the Ob receptor and the diagnosis of body weight disorders, including obesity and cachexia](#)
- 7560667- [Heating element for liquid warming device](#)
- 7565705- [Garment for a cooling and hydration system](#)
- 7566341- [Multiple lumen heat exchange catheters](#)
- 7569584- [4-\(2-methyl-5,6,7,8-tetrahydro-quinolin-7-ylmethyl\)-1,3-dihydro-imidazole-- 2-thione as](#)

[specific alpha.sub.2b agonist and methods of using the same](#)

- 7569595- [2-\(\(2-thioxo-2,3-dihydro-1H-imidazol-4-yl\)methyl\)-3,4-dihydronaphthalen-1\(-2H\)-one](#)
- 7576207- [Spirocyclic heterocyclic derivatives and methods of their use](#)
- 7578615- [Method and system for determining wind chill temperature](#)
- 7598261- [Spirocyclic heterocyclic derivatives and methods of their use](#)
- 7520889- [Thermal blanket for warming the limbs](#)
- 7516977- [Seat adjusting mechanism of a motorized wheelchair](#)
- 7510569- [Use of intravascular hypothermia during angioplasty procedures](#)
- 7441714- [Liquid warming system](#)
- 7455844- [Vaccine against streptococci](#)
- 7458984- [System and method for inducing hypothermia with active patient temperature control employing catheter-mounted temperature sensor and temperature projection algorithm](#)
- 7459657- [Basin for use in liquid warming device](#)
- 7470280- [Clinical garment for comfort warming and prewarming](#)
- 7473270- [Methods and systems for reducing substance-induced renal damage](#)
- 7474771- [Handwriting trajectory recognition system and method](#)
- 7481576- [Method and system for determining wind chill temperature](#)
- 7494504- [Methods and apparatus for regional and whole body temperature modification](#)
- 7509692- [Wearable personal cooling and hydration system](#)
- 7601707- [Method for instantly relieving tissue inflammation](#)

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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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