***Терморегуляция, термофизиология***

1. Брюк К. Тепловой баланс и регуляция температуры тела. Физиология человека. М: Мир, 1996. С. 665-687.
2. Иванов К.П. Мышечная система и химическая терморегуляция. М. – Л., 1965. 127 c.
3. Иванов К.П. Основы энергетики организма: Теоретические и практические аспекты. Т. 1. Общая энергетика, теплообмен и терморегуляция. Л: Наука, 1990. 307 с.
4. Иванов К.П. Основы энергетики организма. Т. 4. Энергоресурсы организма и физиология выживания. СПб: Наука, 2004. 254 с.
5. Иванов К.П. Основы энергетики организма. Т.5: Энергетика живого мира. Физиологические проблемы. СПб: Наука, 2007. 257 с.
6. Лучаков Ю.И. Терморегуляция гомойотермных организмов в термонейтральной зоне (автореф. дис… докт. биол. наук). СПб, 2011. 36 с.
7. Майстрах Е.В. Тепловой гомеостаз // В кн.: Гомеостаз / Под ред. П.Д.Горизонтова. М.: Медицина, 1981. C. 491-520.
8. Медведев В.И. Адаптация человека. СПб: Институт мозга человека РАН, 2003. 584с.
9. Меерсон Ф.З. Основные закономерности индивидуальной адаптации. В кн.: Физиология адаптационных процессов. М.: Наука, 1986. С. 10-76.
10. Пронина Т.С., Орлова Н.И., Рыбаков В.П. Циркадианный ритм температуры кожи у детей в период полового созревания // Физиология человека. 2015. Т. 41, № 2. С. 74-84.
11. Проссер Л., ред. [Сравнительная физиология животных](http://www.tryphonov.ru/tryphonov/donat.htm#0). В 3-х тт. М.: Мир, 1997-1998, 654+547+608 с. Иллюстрированное учебное пособие.
12. Сонькин В.Д. Энергетика детского организма: качественная и количественная специфика // Физиология человека. 2014. Т.40, № 5. С. 103-114.
13. Сурикова И.Л., Стулин И.Д., Мацкеплишвили М.Т. О теоретическом и практическом изучении терморегуляции мозга // Альманах клинической медицины. 2001;4:17-21.
14. Чвырев В.Г., Ажаев А.Н., Новожилов Г.Н. [Тепловой стресс](http://www.tryphonov.ru/tryphonov/donat.htm#0), М., Медицина, 2000, 297 p.
15. (Иванов К.П.). Физиология терморегуляции: Руководство по физиологии / Отв. ред. К.П.Иванов. Л.: Наука, 1984. 470 с.
16. Ivanov K.P. Physiological problems and functional mechanisms of the thermoregulatory system // Ann NY Acad Sci. 813: 32-38, 1997.
17. Kozyreva T.V. Neurophysiological Aspects of the Long-Term Adaptation to Cold in Mammals: The Role of Central and Peripheral Thermoreceptors // J. Therm. Biol. 2006, 31, 105-114. <https://doi.org/10.1016/j.jtherbio.2005.11.003>
18. Luchakov Y.I., Nozdrachev A.D. Mechanism of heat transfer in different regions of human body // Biology Bulletin. 2009. Vol. 36. no. 1. P. 53-57.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Acharya S., Gurung D.B., Saxena V.P. Human males and females body thermoregulation: perfusion effect analysis // Journal of thermal biology, 2014, 45, 30-36.
2. Angilletta M.J. [Thermal Adaptation: A Theoretical and Empirical Synthesis](http://www.tryphonov.ru/tryphonov/donat.htm#0). Oxford University Press, 2009, 320 p. Иллюстрир. уч. пос.
3. Angilletta M.J., Youngblood J.P., Neel L.K., Van den Brooks J.M. The neuroscience of adaptive thermoregulation. Neuroscience Letters, (2019). 692(1), 127-136.
4. Asakura H. Fetal and neonatal thermoregulation // J Nippon Med Sch. 2004; 71(6):360-370. <https://doi.org/10.1272/jnms.71.360>
5. Blackburn S.T. Thermoregulation. In: Blackburn S.T., editor. Maternal, Fetal & Neonatal Physiology: a clinical perspective. 3rd ed. USA: Elsevier; 2013. p. 700-719.
6. Blatteis C.M. (ed.) Physiology and Pathophysiology of Temperature Regulation. Singapore: World Scientific Publishing Co. 1998.
7. Blaxter K. Energy metabolism in animals and man. Cambridge, UK: Cambridge University Press, 1989.
8. Blumberg M.S. [Body Heat: Temperature and Life on Earth](http://www.tryphonov.ru/tryphonov/donat.htm#0). Harvard University Press, 2004, 256 p. Иллюстрир. уч. пос.
9. Boulant J.A. Thermoregulation in Fever Basic Mechanisms and Management. In: Mackowiak P. (Ed). Raven Press, New York, 1991. pp 1-21.
10. Brychta R.J., Chen K.Y. Cold-Induced Thermogenesis in Humans // Eur J Clin Nutr. 2017. Vol. 71, № 3. P. 345-352. DOI: 10.1038/ejcn.2016.223
11. Campbell I. Body temperature and its regulation // Anaesth Intensive Care. 2011;12:240-244.
12. Chang H. [Inventing Temperature: Measurement and Scientific Progress](http://www.tryphonov.ru/tryphonov/donat.htm#0). Oxford University Press, 2004, 305 p. Иллюстрир. уч. пос.
13. Childs C. Body temperature and clinical thermometry // Thermoregulation: From Basic Neuroscience to Clinical Neurology, Part II, vol. 157, pp. 467-482, 2018.
14. Clark RP. Human Skin Temperature and Its Relevance in Physiology and Clinical Assessment. In book: Recent Advances in Medical Thermology: Springer Boston MA; 1984. <https://doi.org/10.1007/978-1-4684-7697-2_2>
15. Collins K.J. The autonomic nervous systems and the regulation of body temperature, CH. 12 in Autonomic Failure, 3rd Ed., Bannister R. and Mathias C.J. (Eds), Oxford Univ Press, 1992.
16. Cooper K.E. [Fever and Antipyresis: the Role of the Nervous System.](http://www.tryphonov.ru/tryphonov/donat.htm#0) Cambridge University Press, 1995, 182 p.
17. Cracowski J.-L., Roustit M. Human Skin Microcirculation // Comprehensive Physiology, July 2020;10(3):1105-1154.
18. Darling R.B. [Temperature](http://www.tryphonov.ru/tryphonov/donat.htm#0). Medical Instrumentation, University of Washington, 2012, 47 pp. Иллюстрир. уч. пос.
19. Dias D.T. Thermal characterization in vitro of human nail: photoacoustic study of the aging process // Photochem Photobiol. 2007;83(5):1144-1148.
20. Dielectric properties of body tissues. http://niremf.ifac.cnr.it/tissprop/. Accessed 29 Oct 2017.
21. Fiala D., Lomas K.J., Stohrer M. A computer model of human thermoregulation for a wide range of environmental conditions: The passive system // J Appl Physiol. 1985;87: 1957-1972.
22. Gisolfi C.V., Mora F. [The Hot Brain: Survival, Temperature, and the Human Body.](http://www.tryphonov.ru/tryphonov/donat.htm#0)The MIT Press, 2000, 293 p. Иллюстрир. уч. пос.
23. Glossary of terms for thermal physiology. Third Edition. Revised by The Commission for Thermal Physiology of the International Union of Physiological Sciences (IUPS Thermal Commission) // The Japanese Journal of Physiology 2001. 51(2):245-280.
24. Heaf J. The Uses and Misuses of Body Surface. Area in Medicine. p. 306, Ch. 17, In: Preedy V.R., Ed. [Handbook of Anthropometry.](http://www.tryphonov.ru/tryphonov/donat.htm#0) Springer, 2012, 3157 p. Руководство.
25. Herman I.P. [Physics of the Human Body.](http://www.tryphonov.ru/tryphonov/donat.htm#0) Springer, 2008, 783 p.
26. Houdas Y., Ring E.F.J. Human body temperature: its measurement and regulation. New York and London: Plenum Press; 1982.
27. International Labour Organization (ILO) [Physiological Responses to the Thermal Environment](http://www.tryphonov.ru/tryphonov/donat.htm#0). Ch. 42 Heat and Cold, Part VI - General Hazards, ILO Encyclopaedia, 2012, 84 p. Иллюстрир. уч. пос.
28. Kooijman B. [Dynamic Energy Budget Theory for Metabolic Organization.](http://www.tryphonov.ru/tryphonov/donat.htm#0) Cambridge University Press, 2009, 534 p.
29. Marino F.F. [Thermoregulation and Human Performance.](http://www.tryphonov.ru/tryphonov/donat.htm#0) Karger, 2008, 145 p.
30. Périard J.D., Eijsvogel T.M.H., Daanen H.A.M. Exercise under heat stress: thermoregulation, hydration, performance implications and mitigation strategies // Physiological Reviews. April 2021. DOI: 10.6084/m9.figshare.14079932 (URL: <https://figshare.com/account/articles/14079932> DOI: 10.1152/physrev.00038.2020 - ???)
31. Preedy V.R., Ed. [Handbook of Anthropometry.](http://www.tryphonov.ru/tryphonov/donat.htm#0) Springer, 2012, 3157 p. Руководство.
32. Serway R.A., Jewett J.W. [Physics for Scientists and Engineers with Modern Physics](http://www.tryphonov.ru/tryphonov/donat.htm#0). 7th ed., Cengage Learning, 2010, 1505 p.
33. Serway R.A., Faughn J.S., Vuille C., Bennett C.A. [Physics for Scientists and Engineers with Modern Physics](http://www.tryphonov.ru/tryphonov/donat.htm#0), 7th ed., Cengage Learning, 2006, 1058 p.
34. Stanier M.N., Mount L.E., Bligh J. Energy balance and temperature regulation. Cambridge: Univ. Press, 1984. 152 pp.
35. ThermoAnalytics, Inc. [Human Thermal Simulation.](http://www.tryphonov.ru/tryphonov/donat.htm#0) ThermoAnalytics, Inc., 2012, 2 p.
36. Walker J.S. [Physics.](http://www.tryphonov.ru/tryphonov/donat.htm#0) 4th ed., Pearson, 2010, 1253 p.
37. Wolinsky I., Driskell J.A. [Sports Nutrition: Energy Metabolism and Exercise.](http://www.tryphonov.ru/tryphonov/donat.htm#0) CRC Press, 2008, 288 p. Учебное пособие. URL: [http](http://www.tryphonov.ru/tryphonov/serv_r.htm#0)://www.tryphonov.ru/tryphonov/serv\_r.htm#0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Acharya S., Gurung D.B., Saxena V.P. Human males and females body thermoregulation: Perfusion effect analysis. Journal of Thermal Biology 2014; 45: 30-36.
2. Agrawal M., Pardasani K.R. Finite element model to study temperature distribution in skin and deep tissues of human limbs // J Therm Biol. 2016;62:98-105. doi: <https://doi.org/10.1016/j.jtherbio.2016.07.006>
3. Agrawal M., Pardasani K.R., Adlakha N. Steady state temperature distribution in dermal regions of an irregular tapered shaped human limb with variable eccentricity // Journal of Thermal Biology. August 2014;44:27-34. <https://doi.org/10.1016/j.jtherbio.2014.06.004>
4. Alfonsi P, Adam F, Bouhassira D. Thermoregulation and pain perception: Evidence for a homoeostatic (interoceptive) dimension of pain // European Journal of Pain (United Kingdom) 2016; 20 (1): 138-148.
5. Ammer K. Principles of Temperature Regulation in Man (Grundlagen der Thermoregulation des Menschen) // Thermologie Österreich 3/1 (1993), p. 5-7 [In English + German].
6. Anbar M. The role of nitric oxide in thermoregulatory processes and their clinical applications in thermology // In: The Thermal Image in Medicine and Biology, K Ammer, F Ring, Eds, Uhlen Verlag, Vienna. 1995; pp 140-145.
7. Anbar M. Mechanisms of local hypothermia and hyperthermia: an overview // Thermol Osterr, 1995, 3: 108.
8. Ansari M.A., Erfanzadeh M., Mohajerani E. Mechanisms of Laser-Tissue Interaction: II. Tissue Thermal Properties // J Lasers Med Sci. 2013;4(3):99-106. PMID: 25606316 PMCID: [PMC4295363](http://www.ncbi.nlm.nih.gov/pmc/articles/pmc4295363/)
9. Ansari M.A., Mohajerani E. Mechanisms of Laser-Tissue Interaction: I. Optical Properties of Tissue // J Lasers Med Sci 2011;2(3):119-125.
10. Arens E., Zhang H. The skin’s role in human thermoregulation and comfort. In: N.Pan, P.Gibson (Eds.), Thermal and Moisture Transport in Fibrous Materials, Woodhead Publishing Ltd: Cambridge, UK, 2006, pp. 560-602.
11. Arfaoui A., Bertucci W.M., Letellier T., Polidori G. Thermoregulation during Incremental exercise in masters cycling // Journal of Science and Cycling 2014. 3:33-41.
12. Asakura H. Fetal and neonatal thermoregulation // J Nippon Med Sch. 2004; 71(6): 360-370. https://doi. org/10.1272/jnms.71.360
13. Aschoff J., Wever R. Cited in: Stainer M.W., Mount L.E., Blight J. Energy balance and temperature regulation. Cambridge University Press, 1984 (1958).
14. Aylott M. The neonatal energy triangle. Part 2: Thermoregulatory and respiratory adaption // Paediatric Nursing, (2006). 18(7), 38-42.
15. Balusu K., Suganthi S.S., Ramakrishnan S. Modelling Bio-heat transfer in Breast Cysts using Finite Element analysis // 2014 International Conference on Informatics, Electronics & Vision (ICIEV), 2014. P. 1-4.
16. Battistel L., Vilardi A., Zampini M., Parin R. An investigation on humans’ sensitivity to environmental temperature // Scientific Reports. December 2023;13(1). DOI: [10.1038/s41598-023-47880-5](http://dx.doi.org/10.1038/s41598-023-47880-5)
17. Bhargava A., Chanmugam A., Herman C. Heat transfer model for deep tissue injury: a step towards an early thermographic diagnostic capability // Diagn Pathol. 2014;9:1-18.
18. Bhowmik A., Singh R., Repaka R., Mishra S.C. Conventional and newly developed bioheat transport models in vascularized tissues: A review // J. Therm. Biol. 38 (2013) 462:107-125. doi:10.1016/j.jtherbio.2012.12.003
19. Bierman W. The temperature of the skin surface // Jama. 1936;106(14):1158-1162.
20. Bissinger R.L. Annibale D.J. Thermoregulation in very low-birth-weight infants during the golden hour: results and implications // Advances in Neonatal Care, (2010). 10(5), 230-238.
21. Blatteis C.M. Age-dependent changes in temperature regulation – A mini review // Gerontology 2012, 58, 289-295. DOI: [10.1159/000333148](https://doi.org/10.1159/000333148)
22. Bligh J., Johnson K.G. Glossary of terms for thermal physiology // J Appl Physiol 35: 941-961, 1973.
23. Block B.A. Thermogenesis in muscle // Annu Rev Physiol. 1994;56(1):535-577.
24. Blondin D.P., Tingelstad H.C., Mantha O.L., Gosselin C., Haman F. Maintaining Thermogenesis in Cold Exposed Humans: Relying on Multiple Metabolic Pathways // Compr. Physiol. 2014. Vol. 4, № 4. P. 1383-1402. DOI: 10.1002/cphy.c130043; PMID: 25428848
25. Blumberg M.S. The developmental context of thermal homeostasis. In E. M. Blass (Ed.), Handbook of behavioral neurobiology 2001. Vol. 13, pp. 199-228. New York, NY: Kluwer Academic/Plenum Press.
26. Blumberg M.S. Body heat: Temperature and life on earth. Cambridge, MA: Harvard University Press, 2002.
27. Borisov V.V., Lin D.C. Temperature fluctuations in the lower limbs of young and elderly individuals during activities of daily living // Exp Gerontol. 2014 Sep;57:243-249. doi: 10.1016/j.exger.2014.06.005
28. Boulant J.A. Role of the preoptic-anterior hypothalamus in thermoregulation and fever // Clinical infectious diseases. 2000 Oct 1;31(Supplement\_5):S157-161.
29. Boulant J.A. Hypothalamic mechanisms in thermoregulation // Federation Proceedings 1981 Dec (Vol. 40, No. 14, pp. 2843-2850).
30. Bouzida N., Bendada A., Maldague X.P. Visualization of body thermoregulation by infrared imaging // J. Thermal Biol. 2009. 34 (3): 120-126.
31. Campbell I. Body temperature and its regulation // Anaesth Intens Care Med. 2011; 12: 240-244. https://doi.org/10.1016/j.mpaic.2018.06.003
32. Charkoudian N. [Skin Blood Flow in Adult Human Thermoregulation: How It Works, When It Does Not, and Why](http://www.tryphonov.ru/tryphonov2/terms2/www.mayoclinicproceedings.com) // Mayo Clin. Proc., 2003, 78 (5): 603-612. doi:10.4065/78.5.603
33. Charkoudian N. Mechanisms and Modulators of Temperature Regulation: Mechanisms and modifiers of reflex induced cutaneous vasodilation and vasoconstriction in humans // Journal of Applied Physiology, May 2010.109(4):1221-1228 DOI 10.1152/japplphysiol.00298.2010
34. Charkoudian N. Human thermoregulation from the autonomic perspective // Auton Neurosci Basic Clin (2016) 196:1-2. doi:10.1016/j.autneu.2016.02.007
35. Charkoudian N., Hart E.C.J., Barnes J.N., Joyner M.J. Autonomic control of body temperature and blood pressure: influences of female sex hormones // Clin. Auton Res. (2017). 27, 149-155. doi: 10.1007/s10286-017- 0420-z
36. Charkoudian N., Stachenfeld N.S. Reproductive hormone influences on thermoregulation in women // Compr. Physiol. (2014). 4, 793-804. doi: 10.1002/cphy. c130029
37. Cheshier Jr. W.P. Thermoregulatory disorders and illness related to heat and cold stress // [Autonomic Neuroscience](https://www.sciencedirect.com/science/journal/15660702); April 2016, [Volume 196](https://www.sciencedirect.com/science/journal/15660702/196/supp/C), P. 91-104.
38. Cheung S.S. Responses of the hands and feet to cold exposure // Temperature (Austin), 2015. 2, 105-120. doi: 10.1080/23328940.2015.1008890
39. Çınar N.D., Filiz T.M. Neonatal thermoregulation // J Neonatal Nursing. 2006;12: 69-74.
40. Collier R.J., Gebremedhin K.G. Thermal Biology of Domestic Animals // Annu. Rev. Anim. Biosci. 2015, 3, 513–532. <https://doi.org/10.1146/annurev-animal-022114-110659>
41. Cramer M.N. Gagnon D., Laitano O., Crandall C.G. Human temperature regulation under heat stress in health, disease, and injury // Physiol Rev. June 2022. DOI: [10.1152/physrev.00047.2021](http://dx.doi.org/10.1152/physrev.00047.2021)
42. Cramer M.N., Jay O. Biophysical aspects of human thermoregulation during heat stress // Auton Neurosci Basic Clin 2016; 196:3-13. doi:10.1016/j.autneu.2016.03.001
43. Crompton A.W., Taylor C.R., Jagger J.A. Evolution of homeothermy in mammals. Nature 1978; 272, 333-336. doi:10.1038/272333a0
44. Díaz M., Becker D.E. Thermoregulation: physiological and clinical considerations during sedation and general anesthesia // Anesthesia Progress. 2010; 57: 25-33.
45. DiMicco J.A., Zaretsky D.V. The dorsomedial hypothalamus: a new player in thermoregulation // Am J Physiol Regul Integr Comp Physiol. 2007;292:47-63. doi: 10.1152/ajpregu.00498.2006
46. Ezquerra-Romano I., Clements M.F., di Costa S. et al. Challenging a classical theory of sensory specificity: inconsistency and instability of thermosensitive spots // bioRxiv Preprint. July 2023. DOI: [10.1101/2023.07.17.549302](http://dx.doi.org/10.1101/2023.07.17.549302)
47. Fiala D., Havenith G., Bröde P. et al. UTCI-Fiala multi-node model of human heat transfer and temperature regulation // Int J Biometeorol. 56 (2012) 429-441. doi:10.1007/s00484-011-0424-7
48. Fiala D., Lomas K., Stohrer M. Computer prediction of human thermoregulatory and temperature responses to a wide range of environmental conditions // Int J Biometeorol. 2001;45:143-159.
49. Flouris A.D. Functional architecture of behavioural thermoregulation // Eur. J. Appl. Physiol. 2011. 111, 1-8. doi: 10.1007/s00421-010-1602-8
50. Foster K.R., Ziskin M.C., Balzano Q., Hirata A. Transient Thermal Responses of Skin to Pulsed Millimeter Waves // IEEE Access. 2020. VOLUME XX. 14 pp. DOI 10.1109/ACCESS.2020.3008322
51. Francisco M.A., Minson C.T. Cutaneous active vasodilation as a heat loss thermoeffector /// Handb. Clin. Neurol. 2018, 156, 193-209.
52. Gagge A.P., Gonzalez R.R. Mechanisms of heat exchange: biophysics and physiology. In: Handbook of Physiology. Environmental Physiology. Bethesda, MD: Am J Physiol. Soc., 1996, sect. 4, vol. I, chapt. 4 p. 45-84.
53. Garcia-Souto M.D.P., Dabnichki P. Core and local skin temperature: 3-24 months old toddlers and comparison to adults // Building and Environment Apr 2016. 104. 28 pp. DOI: 10.1016/j.buildenv.2016.04.016
54. Gas, P. Essential Facts on the History of Hyperthermia and their Connections with Electromedicine. Prz. Elektrotechniczny 2011, 87, 7-40. Available online: http://pe.org.pl/articles/2011/12b/11.pdf (accessed on 10 June 2020).
55. Geneva I.I., Cuzzo B., Fazili T., Javaid W. Normal body temperature: A systematic review // Open Forum Infectious Diseases 2019; 6 (4), art. no. ofz032. DOI 10.1093/ofid/ofz032
56. Gleeson M. Temperature regulation during exercise // Int J Sports Med. 1998, 19(2), pp. 96-99.
57. González-Alonso J. Human thermoregulation and the cardiovascular system // Exp. Physiol. 2012, 97, 340-346. <https://doi.org/10.1113/expphysiol.2011.058701>
58. Haghayegh S., Smolensky M.H., Khoshnevis S. et al. The circadian rhythm of thermoregulation modulates both the sleep/wake cycle and 24 h pattern of arterial blood pressure // Compr Physiol. (2021) 11:2645-2658. doi: 10.1002/cphy.c210008
59. Hardy J.D. The radiation of heat from the human body (I–IV) // Journal of Clinical Investigation, 1934, 13:593-620 & 817-883.
60. Hardy J.D. Physiology of the temperature regulation // Physiol. Revs 1961. 41 (3): 521-606.
61. Hardy J.D., Du Bois E.F. metabolism, radiation, convection and vaporization at temperatures of 22 to 35°C // J. Nutr. 15 (1938) 477-497.
62. Hardy J.D., Muschenheim C. The radiation of heat from the human body, IV. The emission, reﬂection, and transmission of Infrared radiation by the human skin // J Clin Invest, 1934. 13:817-831.
63. Hardy J.D., Muschenheim C. The radiation of heat from the human body (V) // Journal of Clinical Investigation, 1936, 15:1-8.
64. Hargreaves M., Spriet L.L. Skeletal muscle energy metabolism during exercise // Nat Metab 2, 817-828 (2020). https://doi.org/10.1038/s42255-020-0251-4
65. Harshaw C., Blumberg M.S., Alberts R.J. Thermoregulation, Energetics, and Behavior. Ib book: APA Handbook of Comparative Psychology: Vol. 1. Basic Concepts, Methods, Neural Substrate, and Behavior, J. Call (Editor-in-Chief) by the American Psychological Association. January 2017. Chapter 45, pp. 931-952. <http://dx.doi.org/10.1037/0000011-045>
66. Hasgall P.A., Di Gennaro F., Baumgartner C. et al. Database for thermal and electromagnetic parameters of biological tissues, Version 4.0, May 15th 2018. Available online: www.itis.ethz.ch/database (accessed on 10 May 2020).
67. Havenith G. Human surface to mass ratio and body core temperature in exercise heat stress – A concept revisited // J Ther Biol. 2001, 26, 387-393.
68. Havenith G. Comfort, thermal stress, and clothing // Thermology international 31/3(2021): 116.
69. Haynie D.T. Biological thermodynamics. 2001. <http://dx.doi.org/10.1017/CBO9780511754784>
70. Hayward J.S., Eckerson J.D., Collis M.L. Thermoregulatory heat production in man: prediction equation based on skin and core temperatures // J Appl Physiol 1977;42(3):377-384.
71. Hayward M.G., Keatinge W.R. Roles of subcutaneous fat and thermoregulatory reflexes in determining ability to stabilize body temperature in water // J Physiol. 1981;320:229-251 <https://doi.org/10.1113/jphysiol.1981.sp013946>
72. Heldmaier G., Steinlechner S., Ruf T. et al. Photoperiod and thermoregulation in vertebrates: body temperature rhythms and thermogenic acclimation // J Biol Rhythms (1989) 4:251-265.
73. Hensel H. Thermoreception and Temperature Regulation. London, Academic Press, 1982.
74. Hensley D.W., Mark A.E., Abella J.R. et al. 50 Years of Computer Simulation of the Human Thermoregulatory System // J Biomech Eng 2013;135(2):021006 1-9.
75. Herborn K., Graves J., Jerem P. et al. Skin temperature reveals the intensity of acute stress // Physiology & Behaviour, 2015, 152, 225-230.
76. Horsman M.R. Tissue physiology and the response to heat // Int J Hyperthermia. 2006; 22: 197-203.
77. Huizenga C., Zhang H., Arens E., Wang D. Skin and core temperature response to partial- and whole-body heating and cooling // Journal of Thermal Biology, 2004. 29, 549-558.
78. Hymczak H., Gołąb A., Mendrala K. et al. Core Temperature Measurement-Principles of Correct Measurement, Problems, and Complications // Int J Environ Res Public Health. 2021 Oct 10;18(20):10606. doi: 10.3390/ijerph182010606
79. Iwase S., Cui J., Wallin B.G. et al. Effects of increased ambient temperature on skin sympathetic nerve activity and core temperature in humans // Neurosci Lett. 2002; 327(1):37-40. https://doi. org/10.1016/s0304-3940(02)00374-9
80. Iwata S., Tachtsidis I., Takashima S.et al. Dual role of cerebral blood flow in regional brain temperature control in the healthy newborn infant // International Journal of Developmental Neuroscience 2014; 37: 1-7.
81. IJzerman H., Coan J.A., Wagemans F.M. et al. A theory of social thermoregulation in human primates // Front Psychol. 2015 Apr 21;6:464. doi: 10.3389/fpsyg.2015.00464
82. Jacquot C.M.C., Schellen L., Kingma B.R. et al. Influence of thermophysiology on thermal behavior: The essentials of categorization // Physiology and Behavior 2014; 128: 180-187.
83. Jessen C. Thermal efferents in the control of body temperature // Pharmac. Ther. 1985; 28: 107-134.
84. Johnson J.M., Kellogg D.L.Jr. (2010). Local thermal control of the human cutaneous circulation // J. Appl. Physiol. (1985) 109, 1229-1238. doi:10.1152/japplphysiol.00407.2010
85. Johnson J.M., Kellogg D.L.Jr. Thermoregulatory and thermal control in the human cutaneous circulation // Front. Biosci. (Schol Ed.). 2010 Jun 1; 2: 825-853.
86. Johnson J.M., Minson C.T., Kellogg D.L.Jr. Cutaneous vasodilator and vasoconstrictor mechanisms in temperature regulation // Comprehensive physiology, 2014. 4, 33-89. <https://doi.org/10.1002/cphy.c130015>
87. Joyner M.J., Casey D.P. Regulation of increased blood flow (hyperemia) to muscles during exercise: a hierarchy of competing physiological needs // Physiological reviews, vol. 95, no. 2, pp. 549-601, 2015.
88. Kaciuba-Uscilko H., Grucza J. Gender differences in thermoregulation // Curr Opin Clin Nutr Metab Care. 4 (6) (2001) 533-536.
89. Kamiya T., Hasegawa K., Kodera, S. et al. Different thermoregulatory responses of people from tropical and temperate zones: A computational study // Building and Environment (2019). doi:10.1016/j.buildenv.2019.05.030
90. Kasiteropoulou D., Topalidou A., Downe S. A computational fluid dynamics modelling of maternal-fetal heat exchange and blood flow in the umbilical cord // PLoS ONE (2020) 15(7): e0231997. <https://doi.org/10.1371/journal.pone.0231997>
91. Katić K., Li R., Zeiler W. 2018. Thermophysiological models and their applications: A review // Building and Environment; 2016. 106: 286-300. <https://doi.org/10.1016/j.buildenv.2016.06.031>
92. Keller K.H., Seiler L. An analysis of peripheral heat transfer in man // Journal of Applied Physiology, vol. 30, no. 5, pp. 779-786, 1971.
93. Kellogg D.L.Jr. In vivo mechanisms of cutaneous vasodilation and vasoconstriction in humans during thermoregulatory challenges // J Appl Physiol (1985). 2006 May;100(5):1709-1718. doi: 10.1152/japplphysiol.01071.2005
94. Kelly G. Body temperature variability (Part 1): a review of the history of body temperature and its variability due to site selection, biological rhythms, fitness, and aging // Altern Med Rev. 2006; 11: 278-293.
95. Kelly G. Body temperature variability (Part 2): masking influences of body temperature variability and a review of body temperature variability in disease // Altern Med Rev 2007; 12: 49-62.
96. Kelly M.K., Bowe S.J., Jardine W.T. et al. Heat Adaptation for Females: A Systematic Review and Meta-Analysis of Physiological Adaptations and Exercise Performance in the Heat // Sports Med. 53, 1395-1421 (2023). https://doi.org/10.1007/s40279-023-01831-2
97. Kengne E., Lakhssassi A. Analytico-numerical study of bio-heat transfer problems with temperature-dependent perfusion // Eur. Phys. J. Plus. (2015)130:89. 20 pp. DOI10.1140/epjp/i2015-15089-1
98. Kenny G.P., Journeay W.S. Human thermoregulation: separating thermal and nonthermal effects on heat loss // Front Biosci Landmark Ed. (2010) 15:259-290.
99. Kenny G.P., McGinn R. Restoration of thermoregulation after exercise // J. Appl. Physiol. 2016, 122, 933-944. doi:10.1152/japplphysiol.00517.2016
100. Kenny G.P., Sigal R.J., McGinn R. Body temperature regulation in diabetes // Temperature. 2016 Jan 2;3(1): 119-145. <https://doi.org/10.1152/japplphysiol.00517.2016>
101. Kingma B.R. The orchestration of autonomous and behavioral thermoregulation // American Journal of Physiology-Regulatory, Integrative and Comparative Physiology, 2018; 314(2):R145-R146.
102. Kingma B.R., Frijns A.J., van Lichtenbelt W.M. The thermoneutral zone: implications for metabolic studies // Front Biosci (Elite Ed). 4 (2012) 1975-1985.
103. Kingma B.R., Frijns A.J., Schellen L. et al. Beyond the classic thermoneutral zone // Temperature, 2014. 1, 10-17.
104. Kirsch KA. Physiology of skin-surface temperature. In: Engcl J.M., Flercsch U., Stuttgen G. (eds). Applied Thermology: Thermologic Methods. VCH: Weinheim, Germany, 1985, P. 1-9.
105. Klinger H.G. Heat transfer in perfused biological tissue. I: General theory // Bulletin of Mathematical Biology, 1974, vol. 36, pp. 403-415.
106. Kondo N., Tominaga H., Shibasaki M. et al. Thermoregulatory adaptation in humans and its modifying factors // J Physiol. 1999;515(Pt 2):591-598.
107. Krishnan G., Silpa M.V., Sejian V. Environmental Physiology and Thermoregulation in Farm Animals. In: Textbook of Veterinary Physiology; Springer Nature Singapore: Singapore, 2023; pp. 723-749.
108. Kuht J., Farmery A.D. Body temperature and its regulation //Anaesthesia and Intensive Care Medicine 2014; 15 (6): 273-278.
109. Kurz A. Physiology of thermoregulation // Best Pract Res Clin Anaesthesiol. 2008;22(4):627-644.
110. Lefreve J. Studies of the Thermal Conductivity of Skin In-Vivo and the Variations Induced by Changes in the Surrounding Temperature // J. Phys. Theor. Appl. 1901, 10, 380-388.
111. Lemos J.T., Ninke A., Simão J. et al. Computational method for estimating the emissivity of human skin under different conditions: dry skin, sweaty and with lotion // CILAMCE-2022 Proceedings of the joint XLIII Ibero-Latin-American Congress on Computational Methods in Engineering, ABMEC Foz do Iguaçu, Brazil, November 21-25, 2022. 7 pp.
112. Lenhardt R. Body temperature regulation and anesthesia // Handb Clin Neurol. 2018; 157: 635-644. doi: 10.1016/B978-0-444-64074-1.00037-9
113. Lim C.L., Byrne C., Lee J.K. Human thermoregulation and measurement of body temperature in exercise and clinical settings // Ann. Acad. Med. (2008). 37, 347-353.
114. Mabuchi K., Kanbara O., Genno H. et al. Automatic Control of Optimum Ambient Thermal Conditions Using Feedback of Skin Temperature // Biomed. Thermol. 1997. № 16. P. 6-13.
115. Mackowiak P.A., Wasserman S.S. Physicians' perceptions regarding body temperature in health and disease // Southern Medical Journal. 1995 Sep;88(9):934-938.
116. Madhvapathy S.R., Arafa H., Patel M.J. et al. Advanced thermal sensing techniques for characterizing the physical properties of skin // Applied Physics Reviews. December 2022;9(4):041307-1-041307-38. DOI: [10.1063/5.0095157](http://dx.doi.org/10.1063/5.0095157)
117. Matsui K., Murakami S., Lio T., Miki Y. Cyclic heat loss from the steady state skin surface // Thermology. 3:173-176, 1990.
118. Mayes H.S., Navarro M., Satchell L.P. et al. The effects of manipulating the visual environment on thermal perception: A structured narrative review // Journal of Thermal Biology, Volume 112, 2023, 103488. <https://doi.org/10.1016/j.jtherbio.2023.103488>
119. McAllen R.M., McKinley M.J. Efferent Thermoregulatory Pathways Regulating Cutaneous Blood Flow and Sweating. In: Handbook of Clinical Neurology; Elsevier: Amsterdam, The Netherlands, 2018; pp. 305-316.
120. Mekjavic I.B., Eiken O. Contribution of thermal and nonthermal factors to the regulation of body temperature en humans // J Appl Physiol. 2006; 100: 2065-2072. <https://doi.org/10.1152/japplphysiol.01118.2005>
121. Mello D.B. Estresse Térmico – os efeitos do calor sobre o desempenho físico Thermal Stress – [The Effects of Heat on Physical Performance] // Rev Ed Física / J Phys Ed (2018) 87, 4, 541-545. [in Portuguese]
122. Mello D., Moreira D.G., Neves E.B. Termorregulação e Estresse Ambiental. In book: Ciência aplicada ao Exercício Físico e ao Esporte. June 2022. Publisher: Editora Appris Chapter.
123. Mifsud T., Modestini C., Mizzi A. et al. The Effects of Skin Temperature Changes on the Integrity of Skin Tissue: A Systematic Review // Advances in Skin & Wound Care 35(10):p 555-565, October 2022. DOI: 10.1097/01.ASW.0000833612.84272.da
124. Mijović B., Salopek Čubrić I., Skenderi Z., Reischl U. Thermographic Assessment of Sweat Evaporation within Different Clothing Systems. FIBRES & TEXTILES in Eastern Europe, 2012. 20(5 (94)), 81-86.
125. Mitchell D., Wyndham C.H., Hodgson T. Emissivity and transmittance of excised human skin in its thermal emission wave band // Journal of applied physiology 1967, 23, 390-394.
126. Mitchell D., Wyndham C.H., Hodgson T., Nabarro F.R.N. Measurement of the total normal emissivity of skin without the need for measuring skin temperature // Physics in Medicine & Biology 1967, 12, 359.
127. Montell C., Caterina M.J. Thermoregulation: channels that are cool to the core // Curr Biol. 2007 Oct 23;17(20):R885-887. doi: 10.1016/j.cub.2007.08.016
128. Morrison S.F. 2010 Carl Ludwig Distinguished Lectureship of the APS Neural Control and Autonomic Regulation Section: Central Neural Pathways for Thermoregulatory Cold Defense // J. Appl. Physiol. (1985). 2011;110(5):1137-1149. DOI: 10.1152/japplphysiol.01227.2010
129. Morrison S.F. Central neural control of thermoregulation and brown adipose tissue // Auton Neurosci. 2016;196:14-24. [https://doi.org/10.1016/j.autneu. 2016.02.010](https://doi.org/10.1016/j.autneu.%202016.02.010)
130. Morrison S.F., Nakamura K. Central Mechanisms for Thermoregulation // Annu Rev Physiol. 2019; 81: 285-308. doi: 10.1146/annurev-physiol-020518-114546
131. Morrison S.F., Nakamura K. Central neural pathways for thermoregulation // Front Biosci. 16 (2011), P. 74-104.
132. Mota-Rojas D., Miranda-Córtes A., Casas-Alvarado A. et al. Neurobiology and modulation of stress- induced hyperthermia and fever in animals // Abanico Vet. 2021. 11, 1-17.
133. Mota-Rojas D., Titto C.G., de Mira Geraldo A. et al. Efficacy and Function of Feathers, Hair, and Glabrous Skin in the Thermoregulation Strategies of Domestic Animals // Animals 2021, 11, 3472. https://doi.org/10.3390/ani11123472
134. Mota-Rojas D., Titto C.G., Orihuela A. et al. Physiological and Behavioral Mechanisms of Thermoregulation in Mammals // Animals 2021, 11, 1733. https://doi.org/10.3390/ani11061733
135. Nagashima K., Nakai S., Tanaka M., Kanosue K. Neuronal circuitries involved in thermoregulation // Auton Neurosci. 2000 Dec 20;85(1-3):18-25. doi: 10.1016/S1566-0702(00)00216-2
136. Nagashima K., Tokizawa K., Uchida Y. et al. Exercise and thermoregulation // The Journal of Physical Fitness and Sports Medicine, vol. 1, no. 1, pp. 73-82, 2012.
137. Nakamura K. Central circuitries for body temperature regulation and fever // Am J Physiol Regul Integr Comp Physiol. 2011, 301(5): R1207-1228. doi: 10.1152/ajpregu.00109.2011
138. Nakumara K., Morrison S. A thermosensory pathway that controls body temperature // Nat. Neurosci. 2008; 11, 62-71. doi:10.1038/nn2027
139. Naperalsky M., Ruby B., Slivka D. Environmental Temperature and Glycogen Resynthesis // Int. J. Sports Med. 2010, 31, 561-566. DOI: 10.1055/s-0030-1254083
140. Nardin R.A., Fogerson P.M., Nie R., Rutkove S.B. Foot temperature in healthy individuals: effects of ambienttemperature and age // Journal of the American Podiatric Medical Association, vol. 100, pp. 258-264, 2010.
141. Nascimento J.G. do, Figueiredo A.A.A., Guimaraes G. Medição da Difusividade Térmica em Tecido ósseo // Conference: 6º Encontro Nacional de Engenharia Biomecânica; January 2018. DOI: 10.26678/ABCM.ENEBI2018.EEB18-0207
142. Notley S.R., Mitchell D., Taylor N.A.S. A century of exercise physiology: concepts that ignited the study of human thermoregulation. Part 1: Foundational principles and theories of regulation // Eur J Appl Physiol. 123, 2379-2459 (2023). https://doi.org/10.1007/s00421-023-05272-7
143. Notley S.R., Mitchell D., Taylor N.A.S. A century of exercise physiology: concepts that ignited the study of human thermoregulation. Part 2: physiological measurements // Eur J Appl Physiol. 123, 2587-2685 (2023). https://doi.org/10.1007/s00421-023-05284-3
144. Notley S.R., Mitchell D., Taylor N.A.S. A century of exercise physiology: concepts that ignited the study of human thermoregulation. Part 3: Heat and cold tolerance during exercise // Eur J Appl Physiol. 124, 1-145 (2024). https://doi.org/10.1007/s00421-023-05276-3
145. Notley S.R., Mitchell D., Taylor N.A.S. A century of exercise physiology: concepts that ignited the study of human thermoregulation. Part 4: evolution, thermal adaptation and unsupported theories of thermoregulation // Eur J Appl Physiol. 124, 147-218 (2024). https://doi.org/10.1007/s00421-023-05262-9
146. Osilla E.V., Marsidi J.L., Sharma S. Physiology, Temperature Regulation. 2022 May 8. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2022 Jan–. PMID: 29939615
147. Pandolf K.B. Time course of heat acclimation and its decay // Int. J. Sports Med. 19 410 (1998). S157-S160. doi:10.1055/s-2007-971985.
148. Parmeggiani P.L. Thermoregulation and sleep // Frontiers in Bioscience, 2003. 8, s557-s567. <http://dx.doi.org/10.2741/1054>
149. Parsons K. Human thermal environments: the effects of hot, moderate, and cold environments on human health, comfort and performance. 3rd Edition. CRC Press, Boca Raton, USA, 2014.
150. Pennes HH. Analysis of tissue and arterial blood temperatures in the resting human forearm // J Appl Physiol. 1948;1(2):93-122. !!!
151. Pergola P.E., Kellogg D.L.Jr., Johnson J.M. et al. Role of sympathetic nerves in the vascular effects of local temperature in human forearm skin // Am J Physiol. 1993. 265(3 Pt 2), H785-H792. doi: 10.1152/ ajpheart.1993.265.3.H785
152. Periard J.D., Racinais S., Sawka M.N. Adaptations and mechanisms of human heat acclimation: Applications for competitive athletes and sports // Scand J Med Sci Sports (2015) 25:20-38. doi:10.1111/sms.12408
153. Petrofsky J.S., Lohman E., Suh H.J. et al. The Effect of Aging on Conductive Heat Exchange in the Skin at Two Environmental Temperatures // Med. Sci. Monit. 2006, 12, CR400-CR408. PMID: 17006398
154. Power G.G., Blood A.B. Thermoregulation. In: Polin R.A., Fox W.W., Abman S.H., editors. Fetal and Neonatal Physiology (4th ed). USA: Elsevier (Saunders); 2011. pp 615-623.
155. Rango M., Arighi A., Bresolin N. Brain temperature: What do we know? NeuroReport: For Rapid Communication of Neuroscience Research. 2012, 23, 483-487. <http://dx.doi.org/10.1097/WNR.0b013e3283534a60>
156. Rodríguez de Rivera P.J., Rodríguez de Rivera M., Socorro F. et al. Advantages of in vivo measurement of human skin thermal conductance using a calorimetric sensor // Journal of Thermal Analysis and Calorimetry. March 2022;147(18). DOI: [10.1007/s10973-022-11275-x](http://dx.doi.org/10.1007/s10973-022-11275-x)
157. Romanovsky A.A. Thermoregulation: some concepts have changed. Functional architecture of the thermoregulatory system //Am. J. Physiol. Regul. Integr. Comp. Physiol. 2007. 292: 37-46. doi:10.1152/ajpregu.00668.2006
158. Romanovsky A.A. Skin temperature: its role in thermoregulation // Acta Physiol. (Oxford, England). 2014;210:498-507. doi:10.1111/apha.12231
159. Romanovsky A.A. The thermoregulation system and how it works // Handb. Clin. Neurol. 2018, 156, 3-43.
160. Saiko G. Skin Temperature: The Impact of Perfusion, Epidermis Thickness, and Skin Wetness // Appl. Sci. 2022, 12, 7106. https://doi.org/ 10.3390/app12147106 м
161. Saltenrich N. Between Extremes: Health Effects of Heat and Cold // Environ. Health Perspect. 2015. Vol. 123, № 11. Р. A276-A280.
162. Sanchez-Marin F.J. et al. Novel approach to assess the emissivity of the human skin // J Biom Opt., 14(2), 024006, 2009.
163. Satinoff E. Neural organization and evolution of thermal regulation in mammals // Science (1978). 201, 16-22. doi:10.1126/science.351802v
164. Satinoff E. Developmental aspects of behavioral and relexive thermoregulation. In H.N.Shair, G.A. Barr, & M.A.Hofer (Eds.), Developmental Psychobiology: New Methods and Concepts. pp. 169-188. Oxford, England: Oxford University Press, 1991.
165. Schepers R.J., Ringkamp M. Thermoreceptors and thermosensitive afferents // Neuroscience and Biobehavioral Reviews. 2010;34:177-184.
166. Scheuplein R.J. Mechanism of temperature regulation in the skin. In: Fitzpatrick T.B., Eisen A.Z., Wolff K., Freedberg I.M., Austen K.F., eds. Dermatology in General Medicine. 3rd ed. New York McGraw- Hill. 1987; 347-357.
167. Schlader Z.J., Stannard S.R., Mündel T. Human thermoregulatory behavior during rest and exercise - A prospective review // Physiol Behav. 2010; 99: 269-75. https://doi.org/10.1016/j.physbeh.2009.12.003
168. Seebacher F. Responses to temperature variation: integration of thermoregulation and metabolism in vertebrates // J. Exp. Biol. 2009. 212, 2885-2891. doi: 10.1242/jeb.024430
169. Sessler D.I. Perioperative thermoregulation and heat balance // Ann N-Y Acad Sci; 1997. P. 813.
170. Sessler D.I. Thermoregulatory defense mechanisms // Crit Care Med. 2009 Jul;37(7 Suppl):S203-10. doi: 10.1097/CCM.0b013e3181aa5568
171. Sessler D.I. Perioperative thermoregulation and heat balance // Lancet. 2016; 387: 2655-2664.
172. Sessler D.I. Temperature monitoring and perioperative thermoregulation // Anesthesiology 2008.109, 318-338. doi: 10.1097/ALN.0b013e31817f6d76
173. Shabat Y.B., Shitzer A., Fiala D. Modified wind chill temperatures determined by a whole body thermoregulation model and human-based facial convective coefficients // International Journal of Biometeorology 2014; 58 (6): 1007-1015.
174. Shang Z., Jiang G. Fundamental theoretic research of thermal texture maps I-simulation and analysis of the relation between the depth of inner heat source and surface temperature distribution in isotropy tissue // The 26th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2004, pp. 5271-5273.
175. Shih T.C., Yuan P., Lin W.L., Kou H.S. Analytical analysis of the Pennes bioheat transfer equation with sinusoidal heat flux condition on skin surface // Med Eng Phys. 2007 Nov;29(9):946-953.
176. Shusterman V., Anderson K.P., Barnea O. Spontaneous temperature oscillations in normal human subjects // American Journal of Physiology. Regulatory Integrative and Comparative Physiology, vol. 273, no. 342-3, pp. R1173-R1181, 1997.
177. Silver J.R. Thermoregulatory responses in wheelchair tennis players: A pilot study // Spinal Cord 2014; 52 (12): 923.
178. Sokolova I. Temperature Regulation. In Encyclopedia of Ecology; Elsevier: Amsterdam, The Netherlands, 2019; pp. 633-639.
179. Stolwijk J.A. A mathematical model of physiological temperature regulation in man // NASA Contract. Rep. CR-1855 (1971) 77. doi: NASA CR-1855
180. Stolwijk J.A.J., Hardy J.D. Temperature regulation in man: a theoretical study // Pflügers Arch Gesamte Physiol Menschen Tiere 1966;291:129-162.
181. Sund-Levander M., Forsberg C., Wahren L.K. Normal oral, rectal, tympanic and axillary body temperature in adult men and women: a systematic literature review // Scand J Caring Sci. 2002 Jun;16(2):122-128. doi: 10.1046/j.1471-6712.2002.00069.x
182. Takada A., Kodera S., Togo H. et al. Computed and Measured Core Temperature of Patients With Heatstroke Transported From Their Homes via Ambulance // IEEE Access. January 2022;10:1-1. DOI: [10.1109/ACCESS.2022.3167520](http://dx.doi.org/10.1109/ACCESS.2022.3167520)
183. Tan C.L., Knight Z.A. Regulation of body temperature by the nervous system // Neuron 2018;98:31-48. doi: 10.1016/j.neuron.2018.02.022
184. Tansey E.A., Johnson C.D. Recent advances in thermoregulation // Adv. Physiol. Educ. 2015, 39, 139-148.
185. Tattersall G.J., Cadena V. Insights into animal temperature adaptations revealed through thermal imaging // The Imaging Science Journal, 2010, 58, 261-268.
186. Tattersall G.J., Sinclair B.J., Withers P.C. et al. Coping with thermal challenges: Physiological adaptations to environmental temperatures // Comprehensive Physiology, 2012, 2, 2151-2202.
187. Tay S.H., Goh H.J., Govindharajulu P. et al. Brown Fat Activity Determined by Infrared Thermography and Thermogenesis Measurement Using Whole Body Calorimetry (BRIGHT Study) // Physiological research / Academia Scientiarum Bohemoslovaca, December 2019. 69(1). DOI: [10.33549/physiolres.934190](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.33549/physiolres.934190?_sg%5B0%5D=yJ2phJ9nv6OhnWoMotgaPEV0dvDjN1K6fVWhFlmgYLi7-XnxwTVg16SlW1NdKIy5xT7Qc-aciy-594MfzqsCpjG1ig.xq7pOzG6dW-TaW3z8914Qsoi_Rz-w_6QdhpsebvCmVtSE6CLKczrGAtu2Jj4RrK4lI1_JgV5lnARVihqdQ0zgg)
188. Taylor N.A.S. Human heat adaptation. Comprehensive Physiology 2014; 4 (1): 325-365.
189. Taylor N.A.S., Notley S.R., Lindinger M.I. Heat adaptation in humans: the significance of controlled and regulated variables for experimental design and interpretation // Eur J Appl Physiol.120, 2583-2595 (2020). https://doi.org/10.1007/s00421-020-04489-0
190. Taylor N.A.S., Machado-Moreira C.A., van den Heuvel A.M.J., Caldwell J.N. Hands and feet: physiological insulators radiators and evaporators // European Journal of Applied Physiology 2014; 114 (10): 2037-2060.
191. Taylor N.A.S., Tipton M.J., Kenny G.P. Considerations for the measurement of core, skin and mean body temperatures // Journal of Thermal Biology. 2014;46:72-101. DOI: [10.1016/j.jtherbio.2014.10.006](https://doi.org/10.1016/j.jtherbio.2014.10.006)
192. Taylor W.F., Johnson J.M., O’Leary D.S., Park M.K. Modification of the cutaneous vascular response to exercise by local skin temperature // J Appl Physiol. 1984. 57, 1878-1884. doi: 10.1152/jappl.1984.57.6. 1878
193. Terrien J., Perret M., Aujard F. Behavioral thermoregulation in mammals: a review // Front Biosci. (2011). 16, 1428-1444. doi:10.2741/3797
194. The significance of core temperature - pathophysiology and measurement methods. Published by Dräger Medical GmbH MoislingerAllee 53-55 23558 Lübeck, Germany, 2013. 58 р.
195. Tourneux P., Libert J.P., Ghyselen L. et al. Heat exchanges and thermoregulation in the neonate // Arch Pediatr. 2009 Jul;16(7):1057-1062. doi: 10.1016/j.arcped.2009.03.014 [in French]
196. Tyler C.J., Reeve T., Sieh N. et al. Effects of Heat Adaptation on Physiology, Perception, and Exercise Performance in the Heat: An Updated Meta-Analysis // J. of Sci. in Sport and Exercise (2024). https://doi.org/10.1007/s42978-023-00263-8
197. van den Berg J.W. Thermal conductivity and heat transfer of the human skin // Bibl Radiol. 1975; (6):166-177.
198. van Marken Lichtenbelt W.D., Schrauwen P. Implications of Nonshivering Thermogenesis for Energy Balance Regulation in Humans // Am. J. Physiol. Regul. Integr. Comp. Physiol. 2011. Vol. 301, № 2. P. R285-R296.
199. Vanos J., Guzman-Echavarria G., Baldwin J.W. et al. A physiological approach for assessing human survivability and liveability to heat in a changing climate // Nat Commun 14, 7653 (2023). https://doi.org/10.1038/s41467-023-43121-5
200. Van Someren E.J.W., Raymann R.J.E.M., Scherder E.J.A. et al. Circadian and age-related modulation of thermoreception and temperature regulation: Mechanisms and functional implications. Ageing Research Reviews (2002). doi:10.1016/S1568-1637(02)00030-2
201. Van Someren E.J.W., Dekker K., Te Lindert B.H. et al. The experienced temperature sensitivity and regulation survey // Temperature (Austin). 2015 Dec 18;3(1):59-76. doi: 10.1080/23328940.2015.1130519
202. Vinkers C.H., Groenink L., van Bogaert M.J.V. et al. Stress-induced hyperthermia and infection-induced fever: Two of a kind? // Physiol. Behav. 2009, 98, 37-43. doi:10.1016/j.physbeh.2009.04.004
203. Vinkers C.H., Penning R., Hellhammer J. et al. The effect of stress on core and peripheral body temperature in humans // Stress (2013). 16, 520-530. doi: 10.3109/10253890.2013.807243
204. Walløe L. Arterio-venous anastomoses in the human skin and their role in temperature control // Temperature (Austin). 2016; 3(1): 92-103.
205. Wang H., Kim M., Normoyle K.P. et al. Thermal regulation of the brain – an anatomical and physiological review for clinical neuroscientists // Front Neurosci. 2015;9:528. Epub 2016/02/03. PMID: 26834552 PMCID: [PMC4720747](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4720747/) DOI: [10.3389/fnins.2015.00528](https://doi.org/10.3389/fnins.2015.00528)
206. Wang H., Wang B., Normoyle K.P. et al. Brain temperature and its fundamental properties: a review for clinical neuroscientists // Front Neurosci. (2014). 8:307. doi: 10.3389/fnins.2014.00307
207. Wang Y.-P., Cheng R.-H., He Y., Mu L.-Z. Thermal Analysis of Blood Flow Alterations in Human Hand and Foot Based on Vascular-Porous Media Model // Front. Bioeng. Biotechnol. (2022) 9:786615. 17 pp. doi: 10.3389/fbioe.2021.786615
208. Webb P. Temperatures of skin, subcutaneous tissue, muscle and core in resting men in cold, comfortable and hot conditions // Eur J Appl Physiol Occup Physiol 1992;64:471-476.
209. Webb R.C. et al. Ultrathin conformal devices for precise and continuous thermal characterization of human skin // Nat. Mater. 12, 938-944 (2013).
210. Webb R.C., Pielak R.M., Bastien P. et al. Thermal transport characteristics of human skin measured in vivo using ultrathin conformal arrays of thermal sensors and actuators // PLOS One 10, e0118131 (2015).
211. Weinstein S.A., Gelb M., Weinstein G., Weinstein E.L. Thermophysiologic anthropometry of the face in Homo Sapiens // Cranio, vol. 8(3), pp. 252-257, 1990.
212. Wenger C.B. Human heat acclimatization. In: K.B. Pandolf, M.N. Sawka, R.R. Gonzalez (Eds.), Hum. Perform. Physiol. Environ. Med. Terr. Extrem., Brown & Benchmark Pub, 421 1989: pp. 153-197.
213. Werner J., Buse M. Temperature profiles with respect to inhomogeneity and geometry of human body // J. Appl. Physiol. 1988. 65, 1110-1118.
214. Widmaier E.P., Raff H., Strang K.T. Regulation of organic metabolism and energy balance / In: Widmaier E.P., Raff H., Strang K.T. (eds). Vander's human physiology: the mechanisms of body function. 12th edn. N.-Y.: McGraw-Hill, 2011. pp. 554-585.
215. Wilson S.B., Spence V.A. A tissue heat transfer model for relating dynamic skin temperature changes to physiological parameters // Phys. Med. Biol. 1988.33, 895-912.
216. Wilson T.E., Metzler-Wilson K. Autonomic Thermoregulation. In: Oxford Research Encyclopedia of Neuroscience, 2018.
217. Wissler E.H. Pennes' 1948 paper revisited // J. Appl. Physiol., 1998, vol. 85, no. 1, pp. 35-41.
218. Wong B.J., Hollowed C.G. Current concepts of active vasodilation in human skin // Temperature 2016, 4, 41-59. <https://doi.org/10.1080/23328940.2016.1200203>
219. Wu R., Chen T.-H., Hsu P.-C. Stay healthy under global warming: Are view of wearable technology for thermoregulation // EcoMat. 2023;e12396. doi:10.1002/eom2.12396
220. Wulff W. The energy conservation equation for living tissue // IEEE Trans. Biomed. Eng. 1974. 21 (6), 494-495.
221. Xu X., Rioux T.P., Castellani M.P. The specific heat of the human body is lower than previously believed // The Journal Temperature toolbox, Temperature, 2022. P. 1-5. DOI: 10.1080/23328940.2022.2088034
222. Yoneshiro T., Aita S., Matsushita M. et al. Brown adipose tissue, whole-body energy expenditure, and thermogenesis in healthy adult men // Obesity. 2011, 19(1): 13-16.
223. Zaretsky D.V., Romanovsky A.A., Zaretskaia M.V., Molkov Y.I. Tissue oxidative metabolism can increase the difference between local temperature and arterial blood temperature by up to 1.3°C: Implications for brain, brown adipose tissue, and muscle physiology //Temperature 2018. https://doi.org/10.1080/23328940.2018.1437311
224. Zhao Z.D., Yang W.Z., Gao C. et al. A hypothalamic circuit that controls body temperature // Proc Natl Acad Sci USA. 2017; 114: 2042-2047. doi: 10.1073/pnas.1616255114
225. Zhu M., Ackerman J.J., Yablonskiy D.A. Body and brain temperature coupling: the critical role of cerebral blood flow // J Comp Physiol. (2009). B179, 701-710. doi:10.1007/s00360-009-0352-6