

Tangshan

Tangshan (Chinese: 唐山; pinyin: Tángshān) is a largely industrial prefecture-level city in the northeast of Hebei province. It has become known for the 1976 Tangshan earthquake which measured 7.8 on the Richter scale, flattening much of the city and killing at least 255,000 residents according to official estimates. The city has since been rebuilt, has become a tourist attraction and has among the 10 largest ports in China.

Kailuan General Hospital, Tangshan, China.

The Affiliated Hospital of North China University of Science and Technology, Tangshan, 063000, China.

Li QX, Zhao XJ, Peng YB, Wang DL, Dong XL, Fan HY, Chen RY, Zhang J, Zhang L, Liu J. A Prospective Study of Comparing the Application of Two Generation Scoring Systems in Patients with Acute Cerebral Infarction. *Adv Ther*. 2019 Sep 28. doi: 10.1007/s12325-019-01084-4. [Epub ahead of print] PubMed PMID: 31564039.

2: Guo X, Yuan J, Wang J, Cui C, Jiang P. Calcitriol alleviates global cerebral ischemia-induced cognitive impairment by reducing apoptosis regulated by VDR/ERK signaling pathway in rat hippocampus. *Brain Res*. 2019 Aug 31;1724:146430. doi: 10.1016/j.brainres.2019.146430. [Epub ahead of print] PubMed PMID: 31479649.

3: Chen X, Liu C, Huang Z, Pu X, Shang L, Yin G, Xue C. Preparation of carboxylic graphene oxide-composited polypyrrole conduits and their effect on sciatic nerve repair under Electrostimulation. *J Biomed Mater Res A*. 2019 Aug 13. doi: 10.1002/jbm.a.36781. [Epub ahead of print] PubMed PMID: 31408274.

4: Zhao XJ, Li QX, Chang LS, Zhang J, Wang DL, Fan HY, Zheng FX, Wang XJ. Evaluation of the Application of APACHE II Combined With NIHSS Score in the Short-Term Prognosis of Acute Cerebral Hemorrhage Patient. *Front Neurol*. 2019 Jun 21;10:475. doi: 10.3389/fneur.2019.00475. eCollection 2019. PubMed PMID: 31293492; PubMed Central PMCID: PMC6598469.

5: An T, Fan T, Zhang XQ, Liu YF, Huang J, Liang C, Lv BH, Wang YQ, Zhao XG, Liu JX, Fu YH, Jiang GJ. Comparison of Alterations in MicroRNA Expression in Matched Tissue and Blood Samples during Spinal Cord Glioma Progression. *Sci Rep*. 2019 Jun 24;9(1):9169. doi: 10.1038/s41598-019-42364-x. PubMed PMID: 31235820; PubMed Central PMCID: PMC6591379.

6: Li Q, Zheng J, Xu S, Zhang J, Cao Y, Qin Z, Liu X, Jiang C. The neurotoxicity induced by PM(2.5) might be strongly related to changes of the hippocampal tissue structure and neurotransmitter levels. *Toxicol Res (Camb)*. 2018 Jul 31;7(6):1144-1152. doi: 10.1039/c8tx00093j. eCollection 2018 Nov 1. PubMed PMID: 30510684; PubMed Central PMCID: PMC6220725.

7: Sun L, Ma Y, Zhang Z, Li X, Chen Y, Liu G, Fu A. ROCK2 regulates autophagy in the hippocampus of rats after subarachnoid hemorrhage. *Neuroreport*. 2018 Dec 12;29(18):1571-1577. doi:

10.1097/WNR.0000000000001154. PubMed PMID: 30363018.

8: Zhao XJ, Li QX, Liu TJ, Wang DL, An YC, Zhang J, Peng YB, Chen RY, Chang LS, Wang Y, Zhang L, Fan HY, Wang XJ, Zheng FX. Predictive values of CSS and NIHSS in the prognosis of patients with acute cerebral infarction: A comparative analysis. *Medicine (Baltimore)*. 2018 Sep;97(39):e12419. doi: 10.1097/MD.00000000000012419. PubMed PMID: 30278519; PubMed Central PMCID: PMC6181457.

9: Deng Y, Jia B, Huo X, Peng Y, Cao Y, Chen S, Zhang M, Jiang C, Peng X, Song C, Wei L, Zhu Q, Guo Z, Liu L, Lin H, Yang H, Wu W, Liang H, Xu A, Chen K, Liebeskind DS, Zhao X, Wang A, Liu L, Wang Y, Wang Y, Gao F, Sun X, Liu L, Mo D, Ma N, Song L, Miao Z; EAST Investigators. Association of Cardioembolism and Intracranial Arterial Stenosis with Outcomes of Mechanical Thrombectomy in Acute Ischemic Stroke. *World Neurosurg*. 2019 Jan;121:e154-e158. doi: 10.1016/j.wneu.2018.09.058. Epub 2018 Sep 19. PubMed PMID: 30244073.

10: Liu J, Liang W, Wang J, Zhao Y, Wang Y, Zhang J, Li J. Moderate hypothermia protects increased neuronal autophagy via activation of extracellular signal-regulated kinase signaling pathway in a rat model of early brain injury in subarachnoid hemorrhage. *Biochem Biophys Res Commun*. 2018 Jul 20;502(3):338-344. doi: 10.1016/j.bbrc.2018.05.158. Epub 2018 May 30. PubMed PMID: 29802848.

11: Xu SH, Yang C, Xian WB, Gu J, Liu JL, Jiang LL, Ye J, Liu YM, Guo QY, Zheng YF, Wu L, Chen WR, Pei Z, Chen L. Voltage adjustment improves rigidity and tremor in Parkinson's disease patients receiving deep brain stimulation. *Neural Regen Res*. 2018 Feb;13(2):347-352. doi: 10.4103/1673-5374.226406. PubMed PMID: 29557387; PubMed Central PMCID: PMC5879909.

12: Wei J, Jiang R, Li L, Kang D, Gao G, You C, Zhang J, Gao L, Huang Q, Luo D, Zhao G, Zhang H, Wang S, Wang R. Stress-related upper gastrointestinal bleeding in adult neurocritical care patients: a Chinese multicenter, retrospective study. *Curr Med Res Opin*. 2019 Feb;35(2):181-187. doi: 10.1080/03007995.2018.1448261. Epub 2018 May 30. PubMed PMID: 29499622.

13: Wang Y, Zhou B, Zhou P, Yao Y, Cui Q, Liu Y, Yang J, Wu S, Zhao X, Zhou Y. Association of lipoprotein-associated phospholipase A2 mass with asymptomatic cerebral artery stenosis. *J Cell Mol Med*. 2018 Apr;22(4):2329-2336. doi: 10.1111/jcmm.13521. Epub 2018 Feb 9. PubMed PMID: 29424477; PubMed Central PMCID: PMC5867129.

14: Zhen YF, Liu XY, Zhou DH, Du X, Yin G, Zhang Y, Fang H, Xu G, Soares JC, Zhang XY. Cognition, serum BDNF levels, and BDNF Val66Met polymorphism in type 2 diabetes patients and healthy controls. *Oncotarget*. 2017 Dec 16;9(3):3653-3662. doi: 10.18632/oncotarget.23342. eCollection 2018 Jan 9. PubMed PMID: 29423073; PubMed Central PMCID: PMC5790490.

15: Cui C, Song S, Cui J, Feng Y, Gao J, Jiang P. Vitamin D Receptor Activation Influences NADPH Oxidase (NOX2) Activity and Protects against Neurological Deficits and Apoptosis in a Rat Model of Traumatic Brain Injury. *Oxid Med Cell Longev*. 2017;2017:9245702. doi: 10.1155/2017/9245702. Epub 2017 Dec 19. PubMed PMID: 29410737; PubMed Central PMCID: PMC5749321.

16: Lu B, Liu GL, Yu F, Li WJ, Xiang XX, Xiao HZ. MicroRNA-16/VEGFR2/p38/NF- κ B signaling pathway regulates cell growth of human pituitary neoplasms. *Oncol Rep*. 2018 Mar;39(3):1235-1244. doi: 10.3892/or.2018.6227. Epub 2018 Jan 22. PubMed PMID: 29399695.

17: Yuan J, Guo X, Liu Z, Zhao X, Feng Y, Song S, Cui C, Jiang P. Vitamin D receptor activation influences the ERK pathway and protects against neurological deficits and neuronal death. *Int J Mol Med*. 2018 Jan;41(1):364-372. doi: 10.3892/ijmm.2017.3249. Epub 2017 Nov 9. PubMed PMID: 29138801; PubMed Central PMCID: PMC5746295.

- 18: Wang M, Wang J, Liu Z, Guo X, Wang N, Jia N, Zhang Y, Yuan J. Effects of intermedin on autophagy in cerebral ischemia/reperfusion injury. *Neuropeptides*. 2018 Apr;68:15-21. doi: 10.1016/j.npep.2017.10.004. Epub 2017 Nov 8. PubMed PMID: 29128104.
- 19: Liu TJ, Wang B, Li QX, Dong XL, Han XL, Zhang SB. Effects of microRNA-206 and its target gene IGF-1 on sevoflurane-induced activation of hippocampal astrocytes in aged rats through the PI3K/AKT/CREB signaling pathway. *J Cell Physiol*. 2018 May;233(5):4294-4306. doi: 10.1002/jcp.26248. Epub 2017 Nov 24. PubMed PMID: 29052839.
- 20: Yang P, Li Y, Li J, Shen Y. Impact of T1 slope on surgical and adjacent segment degeneration after Bryan cervical disc arthroplasty. *Ther Clin Risk Manag*. 2017 Aug 29;13:1119-1125. doi: 10.2147/TCRM.S138990. eCollection 2017. PubMed PMID: 28894375; PubMed Central PMCID: PMC5584913.
- 21: Cui C, Cui J, Jin F, Cui Y, Li R, Jiang X, Tian Y, Wang K, Jiang P, Gao J. Induction of the Vitamin D Receptor Attenuates Autophagy Dysfunction-Mediated Cell Death Following Traumatic Brain Injury. *Cell Physiol Biochem*. 2017;42(5):1888-1896. doi: 10.1159/000479571. Epub 2017 Aug 3. PubMed PMID: 28772270.
- 22: Wang YX, Liu QY, Zhang M, Yang Z, Pei X, Wu X, Chen X, Hong J, Xu KZ. Polysaccharides from Bupleurum Induce Immune Reversal in Late Sepsis. *Shock*. 2018 Apr;49(4):451-459. doi: 10.1097/SHK.0000000000000934. PubMed PMID: 28658005.
- 23: Li M, Song X, Zhu J, Fu A, Li J, Chen T. The interventional effect of new drugs combined with the Stupp protocol on glioblastoma: A network meta-analysis. *Clin Neurol Neurosurg*. 2017 Aug;159:6-12. doi: 10.1016/j.clineuro.2017.05.015. Epub 2017 May 11. PubMed PMID: 28514722.
- 24: Guo L, Wang L, Wang L, Yun-Peng S, Zhou JJ, Zhao Z, Li DP. Resveratrol Induces Differentiation of Human Umbilical Cord Mesenchymal Stem Cells into Neuron-Like Cells. *Stem Cells Int*. 2017;2017:1651325. doi: 10.1155/2017/1651325. Epub 2017 Apr 20. PubMed PMID: 28512471; PubMed Central PMCID: PMC5415670.
- 25: Zhang H, Shi WJ. Association of three common single nucleotide polymorphisms of SLC7A7 with the development of glioma in a Chinese population. *Genet Mol Res*. 2017 May 10;16(2). doi: 10.4238/gmr16029026. PubMed PMID: 28510245.
- 26: Cui J, Cui C, Cui Y, Li R, Sheng H, Jiang X, Tian Y, Wang K, Gao J. Bone Marrow Mesenchymal Stem Cell Transplantation Increases GAP-43 Expression via ERK1/2 and PI3K/Akt Pathways in Intracerebral Hemorrhage. *Cell Physiol Biochem*. 2017;42(1):137-144. doi: 10.1159/000477122. Epub 2017 May 12. PubMed PMID: 28505619.
- 27: Guo XF, Zhao YN, Li JM, Chen CX, Li SX. [Expression of mTOR/autophagy pathway in the hippocampus following cerebral ischemia/reperfusion injure in intermittent hypoxia rats]. *Zhonghua Er Bi Yan Hou Tou Jing Wai Ke Za Zhi*. 2016 Oct 7;51(10):761-767. doi: 10.3760/cma.j.issn.1673-0860.2016.10.010. Chinese. PubMed PMID: 27765107.
- 28: Guo X, Zhao Y, Li J, Liu W, Chen C. [Activation of autophagy pathway in hippocampus and deterioration of learning and memory ability by intermittent hypoxia in rats after cerebral ischemia]. *Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi*. 2016 Sep;32(9):1212-6. Chinese. PubMed PMID: 27609578.
- 29: Miao Z, Huo X, Gao F, Liao X, Wang C, Peng Y, Cao Y, Chen S, Zhang M, Jiang C, Peng X, Song C, Wei L, Zhu Q, Guo Z, Liu L, Lin H, Yang H, Wu W, Liang H, Xu A, Chen K, Zhao X, Pan Y, Li H, Liu L, Wang Y, Wang Y; EAST investigators. Endovascular therapy for Acute ischemic Stroke Trial (EAST):

study protocol for a prospective, multicentre control trial in China. *Stroke Vasc Neurol*. 2016 Jun 24;1(2):44-51. doi: 10.1136/svn-2016-000022. eCollection 2016 Jun. PubMed PMID: 28959463; PubMed Central PMCID: PMC5435194.

30: Wang Y, Chen G, Yu X, Li Y, Zhang L, He Z, Zhang N, Yang X, Zhao Y, Li N, Qiu H. Salvianolic Acid B Ameliorates Cerebral Ischemia/Reperfusion Injury Through Inhibiting TLR4/MyD88 Signaling Pathway. *Inflammation*. 2016 Aug;39(4):1503-13. doi: 10.1007/s10753-016-0384-5. PubMed PMID: 27255374.

31: Zhao D, Zhang Z, Wu GB, Wang HY, Gao F, Duan XD, Lu YY, Wang ZM, You DP, Qu Y, Song J. Apolipoprotein E gene polymorphism and the risk of subarachnoid hemorrhage: a meta-analysis of case-control studies. *Acta Neurochir (Wien)*. 2016 Aug;158(8):1515-22. doi: 10.1007/s00701-016-2824-2. Epub 2016 May 30. PubMed PMID: 27241684.

32: Dong XL, Xu SJ, Zhang L, Zhang XQ, Liu T, Gao QY, Qian QQ, Sun BL, Yang MF. Serum Resistin Levels May Contribute to an Increased Risk of Acute Cerebral Infarction. *Mol Neurobiol*. 2017 Apr;54(3):1919-1926. doi: 10.1007/s12035-016-9751-3. Epub 2016 Feb 22. PubMed PMID: 26899574.

33: Sun ZL, Chan AK, Chen LC, Tang C, Zhang ZY, Ding XJ, Wang Y, Sun CR, Ng HK, Yao Y, Zhou LF. TERT promoter mutated WHO grades II and III gliomas are located preferentially in the frontal lobe and avoid the midline. *Int J Clin Exp Pathol*. 2015 Sep 1;8(9):11485-94. eCollection 2015. PubMed PMID: 26617880; PubMed Central PMCID: PMC4637696.

34: Cui Z, Ling Z, Pan L, Song H, Chen X, Shi W, Liu Z, Wang Q, Zhang Z, Li Y, Wang X, Qing Y, Xu X, Mao Z, Xu B, Yu X, Luan G. Optic radiation mapping reduces the risk of visual field deficits in anterior temporal lobe resection. *Int J Clin Exp Med*. 2015 Aug 15;8(8):14283-95. eCollection 2015. PubMed PMID: 26550412; PubMed Central PMCID: PMC4613097.

35: Niu Y, Cai H, Yan J, Li N, Liu J. CT-guided satellite ganglion block for the treatment of Prostatectomy pain in survivors of breast cancer. *Technol Health Care*. 2015;23 Suppl 1:S105-8. doi: 10.3233/thc-150939. PubMed PMID: 26410311.

36: Wang YX, Sun JJ, Zhang M, Hou XH, Hong J, Zhou YJ, Zhang ZY. Propofol injection combined with bone marrow mesenchymal stem cell transplantation better improves electrophysiological function in the hindlimb of rats with spinal cord injury than monotherapy. *Neural Regen Res*. 2015 Apr;10(4):636-43. doi: 10.4103/1673-5374.155440. PubMed PMID: 26170827; PubMed Central PMCID: PMC4424759.

37: Hong J, Nandiwada V, Jones V, Lu M, Warner DS, Mukhopadhyay S, Sheng H. CB1 cannabinoid receptor agonist inhibits matrix metalloproteinase activity in spinal cord injury: A possible mechanism of improved recovery. *Neurosci Lett*. 2015 Jun 15;597:19-24. doi: 10.1016/j.neulet.2015.04.016. Epub 2015 Apr 14. PubMed PMID: 25881484.

38: Si D, Li J, Liu J, Wang X, Wei Z, Tian Q, Wang H, Liu G. Progesterone protects blood-brain barrier function and improves neurological outcome following traumatic brain injury in rats. *Exp Ther Med*. 2014 Sep;8(3):1010-1014. Epub 2014 Jul 11. PubMed PMID: 25120639; PubMed Central PMCID: PMC4113529.

39: Sun ZL, Zhang YZ. [Effects of high plating densities on in vitro and in vivo differentiation capability of immortalized human mesenchymal stem cells]. *Zhonghua Yi Xue Za Zhi*. 2013 Dec 3;93(45):3640-2. Chinese. PubMed PMID: 24534322.

40: Si D, Yang P, Jiang R, Zhou H, Wang H, Zhang Y. Improved cognitive outcome after progesterone

administration is associated with protecting hippocampal neurons from secondary damage studied in vitro and in vivo. *Behav Brain Res*. 2014 May 1;264:135-42. doi: 10.1016/j.bbr.2014.01.049. Epub 2014 Feb 8. PubMed PMID: 24518203.

41: Sun ZL, Zhang YZ. [Association between differentiation potential of immortalized human mesenchymal stem cells and cluster of differentiation antigens]. *Zhonghua Yi Xue Za Zhi*. 2013 Nov 5;93(41):3306-8. Chinese. PubMed PMID: 24401631.

42: Wang B, Li H, Zhang J, Yang H, Liu W, Jiang W, Zhao G. [Anatomical study on contralateral C7 root transfer for recovery of forearm flexor function in repairing of brachial plexus avulsion]. *Zhongguo Xiu Fu Chong Jian Wai Ke Za Zhi*. 2012 Oct;26(10):1223-6. Chinese. PubMed PMID: 23167108.

43: Li JM, Zhang P, Zhao YN, Chen CX, Li SX. Protective effects of edaravone on diffuse brain injury in rats. *World J Emerg Med*. 2011;2(3):222-7. doi: 10.5847/wjem.j.1920-8642.2011.03.012. PubMed PMID: 25215014; PubMed Central PMCID: PMC4129708.

44: Yan CL, Liu QJ, Yang P, Fu AJ, Zhu J, Wang HH. [Clinical research on bedsores treated with fire needle therapy]. *Zhongguo Zhen Jiu*. 2010 Oct;30(10):819-21. Chinese. PubMed PMID: 21058478.

45: Sun ZL, Qi XY, Li CZ, Zhang YZ. [Effect of monoclonal or different cell seeding densities on the differentiation potential of immortalized human mesenchymal stem cells in vitro and in vivo]. *Zhonghua Yi Xue Za Zhi*. 2009 Aug 18;89(31):2202-5. Chinese. PubMed PMID: 20058600.

46: Zou XF, Zhu J, Li JM, Zhang HY, Zhao CL, Xu QY. [Bone marrow stem cell-derived astrocytes are involved in glia limitans formation in rats after brain injury]. *Nan Fang Yi Ke Da Xue Xue Bao*. 2009 Dec;29(12):2391-3. Chinese. PubMed PMID: 20034883.

47: Liu QJ, Zhu J, Zhao JX, Li JM, Fu AJ, Liu G. [The relationship between expression of fas mRNA and apoptosis after traumatic brain injury in rats and the role of GM-1 in protecting the brain]. *Sichuan Da Xue Xue Bao Yi Xue Ban*. 2005 Jul;36(4):477-9. Chinese. PubMed PMID: 16078565.

48: Hong J, Cui J, Zhou Y, Gao J. Study on cognition disorder and morphologic change of neurons in hippocampus area following traumatic brain injury in rats. *Chin J Traumatol*. 2002 Feb;5(1):36-9. PubMed PMID: 11835755.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

<https://neurosurgerywiki.com/wiki/doku.php?id=tangshan>

Last update: **2024/06/07 02:53**

