Supplementary file 2: Studies excluded from the 1st search	**Exclusion criteria**
Duisenbek A, Lopez-Armas GC, Pérez M, Avilés Pérez MD, Aguilar Benitez JM, Pereira Pérez VR, Gorts Ortega J, Yessenbekova A, Ablaikhanova N, Escames G, Acuña-Castroviejo D, Rusanova I. Insights into the Role of Plasmatic and Exosomal microRNAs in Oxidative Stress-Related Metabolic Diseases. Antioxidants (Basel). 2023 Jun 16;12(6):1290. doi: 10.3390/antiox12061290. PMID: 37372020	Ineligible publication type
Zhang C, Li H, Wang S. Common gene signatures and molecular mechanisms of diabetic nephropathy and metabolic syndrome. Front Public Health. 2023 Mar 30;11:1150122. doi: 10.3389/fpubh.2023.1150122. eCollection 2023. PMID: 37143982	Study did not fulfil eligibility criteria
Gandhi GR, Hillary VE, Antony PJ, Zhong LLD, Yogesh D, Krishnakumar NM, Ceasar SA, Gan RY. A systematic review on anti-diabetic plant essential oil compounds: Dietary sources, effects, molecular mechanisms, and safety. Crit Rev Food Sci Nutr. 2023 Jan 28:1-20. doi: 10.1080/10408398.2023.2170320. Online ahead of print. PMID: 36708221	Ineligible publication type
Abdel Mageed SS, Doghish AS, Ismail A, El-Husseiny AA, Fawzi SF, Mahmoud AMA, El-Mahdy HA. The role of miRNAs in insulin resistance and diabetic macrovascular complications - A review. Int J Biol Macromol. 2023 Mar 1;230:123189. doi: 10.1016/j.ijbiomac.2023.123189. Epub 2023 Jan 7. PMID: 36623613	Ineligible publication type
Mirahmad M, Mohseni S, Tabatabaei-Malazy O, Esmaeili F, Alatab S, Bahramsoltani R, Ejtahed HS, Qulami H, Bitarafan Z, Arjmand B, Nazeri E. Antioxidative hypoglycemic herbal medicines with in vivo and in vitro activity against C-reactive protein; a systematic review. Phytomedicine. 2023 Jan;109:154615. doi: 10.1016/j.phymed.2022.154615. Epub 2022 Dec 18. PMID: 36610136	Ineligible publication type
Sahakyan G, Vejux A, Sahakyan N. The Role of Oxidative Stress-Mediated Inflammation in the Development of T2DM-Induced Diabetic Nephropathy: Possible Preventive Action of Tannins and Other Oligomeric Polyphenols. Molecules. 2022 Dec 18;27(24):9035. doi: 10.3390/molecules27249035. PMID: 36558167	Ineligible publication type
Zhang Y, Cao Y, Zheng R, Xiong Z, Zhu Z, Gao F, Man W, Duan Y, Lin J, Zhang X, Wu D, Jiang M, Zhang X, Li C, Gu X, Fan Y, Sun D. Fibroblast-specific activation of Rnd3 protects against cardiac remodeling in diabetic cardiomyopathy via suppression of Notch and TGF-β signaling. Theranostics. 2022 Oct 17;12(17):7250-7266. doi: 10.7150/thno.77043. eCollection 2022. PMID: 36438502	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Sonthalia M, Roy BS, Chandrawanshi D, Ganesh GV, Jayasuriya R, Mohandas S, Rajagopal S, Ramkumar KM. Histone deacetylase inhibitors as antidiabetic agents: Advances and opportunities. Eur J Pharmacol. 2022 Nov 15;935:175328. doi: 10.1016/j.ejphar.2022.175328. Epub 2022 Oct 17. PMID: 36257383	Ineligible publication type
Marchelek-Mysliwiec M, Nalewajska M, Turoń-Skrzypińska A, Kotrych K, Dziedziejko V, Sulikowski T, Pawlik A. The Role of Forkhead Box O in Pathogenesis and Therapy of Diabetes Mellitus. Int J Mol Sci. 2022 Oct 1;23(19):11611. doi: 10.3390/ijms231911611. PMID: 36232910	Ineligible publication type
Waldman M, Singh SP, Shen HH, Alex R, Rezzani R, Favero G, Hochhauser E, Kornowski R, Arad M, Peterson SJ. Silencing the Adipocytokine NOV: A Novel Approach to Reversing Oxidative Stress-Induced Cardiometabolic Dysfunction. Cells. 2022 Sep 29;11(19):3060. doi: 10.3390/cells11193060. PMID: 36231029	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)

Yu M, Sun Y, Shan X, Yang F, Chu G, Chen Q, Han L, Guo Z, Wang G. Therapeutic overexpression of miR-92a-2-5p ameliorated cardiomyocyte oxidative stress injury in the development of diabetic cardiomyopathy. Cell Mol Biol Lett. 2022 Oct 8;27(1):85. doi: 10.1186/s11658-022-00379-9. PMID: 36209049	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Li H, Song D, Liu Q, Li L, Sun X, Guo J, Li D, Li P. miR-351 promotes atherosclerosis in diabetes by inhibiting the ITGB3/PIK3R1/Akt pathway and induces endothelial cell injury and lipid accumulation. Mol Med. 2022 Sep 30;28(1):120. doi: 10.1186/s10020-022-00547-9. PMID: 36180828	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Stanigut AM, Pana C, Enciu M, Deacu M, Cimpineanu B, Tuta LA. Hypoxia-Inducible Factors and Diabetic Kidney Disease-How Deep Can We Go?. Int J Mol Sci. 2022 Sep 8;23(18):10413. doi: 10.3390/ijms231810413. PMID: 36142323	Ineligible publication type
Li H, Yang Q, Huang Z, Liang C, Zhang DH, Shi HT, Du JQ, Du BB, Zhang YZ. Dual-specificity phosphatase 12 attenuates oxidative stress injury and apoptosis in diabetic cardiomyopathy via the ASK1-JNK/p38 signaling pathway. Free Radic Biol Med. 2022 Nov 1;192:13-24. doi: 10.1016/j.freeradbiomed.2022.09.004. Epub 2022 Sep 13. PMID: 36108935	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Wu Q, Li D, Huang C, Zhang G, Wang Z, Liu J, Yu H, Song B, Zhang N, Li B, Chu X. Glucose control independent mechanisms involved in the cardiovascular benefits of glucagon-like peptide-1 receptor agonists. Biomed Pharmacother. 2022 Sep;153:113517. doi: 10.1016/j.biopha.2022.113517. Epub 2022 Aug 10. PMID: 36076602	Ineligible publication type
Ntanyane Phasha MA, Soma P, Rooy MV, Phulukdaree A. MicroRNA 155, Factor XIII and Type 2 Diabetes Mellitus and Coronary Heart Disease. Curr Diabetes Rev. 2023;19(6):e190822207740. doi: 10.2174/1573399819999220819144402. PMID: 35993471	Ineligible publication type
Song J, Ni J, Yin X. The genetic side of diabetic kidney disease: a review. Int Urol Nephrol. 2023 Feb;55(2):335-343. doi: 10.1007/s11255-022-03319-w. Epub 2022 Aug 16. PMID: 35974289	Ineligible publication type
Klisic A, Radoman Vujacic I, Munjas J, Ninic A, Kotur-Stevuljevic J. Micro-ribonucleic acid modulation with oxidative stress and inflammation in patients with type 2 diabetes mellitus - a review article. Arch Med Sci. 2022 Apr 10;18(4):870-880. doi: 10.5114/aoms/146796. eCollection 2022. PMID: 35832702	Ineligible publication type
Rath P, Ranjan A, Chauhan A, Verma NK, Bhargava A, Prasad R, Jindal T. A Critical Review on Role of Available Synthetic Drugs and Phytochemicals in Insulin Resistance Treatment by Targeting PTP1B. Appl Biochem Biotechnol. 2022 Oct;194(10):4683-4701. doi: 10.1007/s12010-022-04028-x. Epub 2022 Jul 11. PMID: 35819691	Ineligible publication type
Shah MA, Haris M, Faheem HI, Hamid A, Yousaf R, Rasul A, Shah GM, Khalil AAK, Wahab A, Khan H, Alhasani RH, Althobaiti NA. Cross-Talk between Obesity and Diabetes: Introducing Polyphenols as an Effective Phytomedicine to Combat the Dual Sword Diabesity. Curr Pharm Des. 2022;28(19):1523-1542. doi: 10.2174/1381612828666220628123224. PMID: 35762558	Ineligible publication type
Garg SS, Gupta J. Polyol pathway and redox balance in diabetes. Pharmacol Res. 2022 Aug;182:106326. doi: 10.1016/j.phrs.2022.106326. Epub 2022 Jun 22. PMID: 35752357	Ineligible publication type
Ghosh C, Das N, Saha S, Kundu T, Sircar D, Roy P. Involvement of Cdkal1 in the etiology of type 2 diabetes mellitus and microvascular diabetic complications: a	Ineligible publication type

review. J Diabetes Metab Disord. 2022 Jan 13;21(1):991-1001. doi: 10.1007/s40200-021-00953-6. eCollection 2022 Jun. PMID: 35673487	
Bushra S, Al-Sadeq DW, Bari R, Sahara A, Fadel A, Rizk N. Adiponectin Ameliorates Hyperglycemia-Induced Retinal Endothelial Dysfunction, Highlighting Pathways, Regulators, and Networks. J Inflamm Res. 2022 May 27;15:3135-3166. doi: 10.2147/JIR.S358594. eCollection 2022. PMID: 35662872	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Liu J, Sun M, Xia Y, Cui X, Jiang J. Phloretin ameliorates diabetic nephropathy by inhibiting nephrin and podocin reduction through a non-hypoglycemic effect. Food Funct. 2022 Jun 20;13(12):6613-6622. doi: 10.1039/d2fo00570k. PMID: 35622066	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Kasinathan D, Matrougui K, Elango S, Belmandani S, Srinivas B, Muthusamy K, Narayanasamy Marimuthu P. Mitochondrial ATP6 and ND3 genes are associated with type 2 diabetic peripheral neuropathy. Diabetes Metab Syndr. 2022 Jun;16(6):102501. doi: 10.1016/j.dsx.2022.102501. Epub 2022 May 16. PMID: 35613490	Ineligible publication type
Wang J, Huang X, Liu H, Chen Y, Li P, Liu L, Li J, Ren Y, Huang J, Xiong E, Tian Z, Dai X. Empagliflozin Ameliorates Diabetic Cardiomyopathy via Attenuating Oxidative Stress and Improving Mitochondrial Function. Oxid Med Cell Longev. 2022 May 9;2022:1122494. doi: 10.1155/2022/1122494. eCollection 2022. PMID: 35585884	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Kafeel S, Fawwad A, Basit A, Nawab SN. Clinical Association of Biochemical Variations Among Multilocus Genotypes of Antioxidant Enzymes with Susceptibility of Cataract in Hyperglycemia. Appl Biochem Biotechnol. 2022 Sep;194(9):3871-3889. doi: 10.1007/s12010-022-03957-x. Epub 2022 May 12. PMID: 35556207	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Bhatti JS, Sehrawat A, Mishra J, Sidhu IS, Navik U, Khullar N, Kumar S, Bhatti GK, Reddy PH. Oxidative stress in the pathophysiology of type 2 diabetes and related complications: Current therapeutics strategies and future perspectives. Free Radic Biol Med. 2022 May 1;184:114-134. doi: 10.1016/j.freeradbiomed.2022.03.019. Epub 2022 Apr 7. PMID: 35398495	Ineligible publication type
Adeshara KA, Bangar N, Diwan AG, Tupe RS. Plasma glycation adducts and various RAGE isoforms are intricately associated with oxidative stress and inflammatory markers in type 2 diabetes patients with vascular complications. Diabetes Metab Syndr. 2022 Mar;16(3):102441. doi: 10.1016/j.dsx.2022.102441. Epub 2022 Feb 24. PMID: 35247657	Study did not fulfil eligibility criteria
Singh A, Kukreti R, Saso L, Kukreti S. Mechanistic Insight into Oxidative Stress-Triggered Signaling Pathways and Type 2 Diabetes. Molecules. 2022 Jan 30;27(3):950. doi: 10.3390/molecules27030950. PMID: 35164215	Ineligible publication type
Lima JEBF, Moreira NCS, Sakamoto-Hojo ET. Mechanisms underlying the pathophysiology of type 2 diabetes: From risk factors to oxidative stress, metabolic dysfunction, and hyperglycemia. Mutat Res Genet Toxicol Environ Mutagen. 2022 Feb-Mar;874-875:503437. doi: 10.1016/j.mrgentox.2021.503437. Epub 2021 Dec 14. PMID: 35151421	Ineligible publication type
Qiu D, Song S, Wang Y, Bian Y, Wu M, Wu H, Shi Y, Duan H. NAD(P)H: quinone oxidoreductase 1 attenuates oxidative stress and apoptosis by regulating Sirt1 in diabetic nephropathy. J Transl Med. 2022 Jan 28;20(1):44. doi: 10.1186/s12967-021-03197-3. PMID: 35090502	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)

Kalai FZ, Boulaaba M, Ferdousi F, Isoda H. Effects of Isorhamnetin on Diabetes and Its Associated Complications: A Review of In Vitro and In Vivo Studies and a Post Hoc Transcriptome Analysis of Involved Molecular Pathways. Int J Mol Sci. 2022 Jan 9;23(2):704. doi: 10.3390/ijms23020704. PMID: 35054888	Ineligible publication type
Huang G, Li M, Tian X, Jin Q, Mao Y, Li Y. The Emerging Roles of IL-36, IL-37, and IL-38 in Diabetes Mellitus and its Complications. Endocr Metab Immune Disord Drug Targets. 2022;22(10):997-1008. doi: 10.2174/1871530322666220113142533. PMID: 35049442	Ineligible publication type
Patel R, Parmar N, Pramanik Palit S, Rathwa N, Ramachandran AV, Begum R. Diabetes mellitus and melatonin: Where are we?. Biochimie. 2022 Nov;202:2-14. doi: 10.1016/j.biochi.2022.01.001. Epub 2022 Jan 7. PMID: 35007648	Ineligible publication type
Xu Y, Tang G, Zhang C, Wang N, Feng Y. Gallic Acid and Diabetes Mellitus: Its Association with Oxidative Stress. Molecules. 2021 Nov 24;26(23):7115. doi: 10.3390/molecules26237115. PMID: 34885698	Ineligible publication type
Zhu D, Zhang X, Wang F, Ye Q, Yang C, Liu D. Irisin rescues diabetic cardiac microvascular injury via ERK1/2/Nrf2/HO-1 mediated inhibition of oxidative stress. Diabetes Res Clin Pract. 2022 Jan;183:109170. doi: 10.1016/j.diabres.2021.109170. Epub 2021 Dec 2. PMID: 34863716	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Larsen EL, Kjær LK, Lundby-Christensen L, Boesgaard TW, Breum L, Gluud C, Hedetoft C, Krarup T, Lund SS, Mathiesen ER, Perrild H, Sneppen SB, Tarnow L, Thorsteinsson B, Vestergaard H, Poulsen HE, Madsbad S, Almdal TP. Effects of 18-months metformin versus placebo in combination with three insulin regimens on RNA and DNA oxidation in individuals with type 2 diabetes: A post-hoc analysis of a randomized clinical trial. Free Radic Biol Med. 2022 Jan;178:18-25. doi: 10.1016/j.freeradbiomed.2021.11.028. Epub 2021 Nov 22. PMID: 34823018	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Ma T, Huang X, Zheng H, Huang G, Li W, Liu X, Liang J, Cao Y, Hu Y, Huang Y. SFRP2 Improves Mitochondrial Dynamics and Mitochondrial Biogenesis, Oxidative Stress, and Apoptosis in Diabetic Cardiomyopathy. Oxid Med Cell Longev. 2021 Nov 8;2021:9265016. doi: 10.1155/2021/9265016. eCollection 2021. PMID: 34790288	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Zhou Z, Collado A, Sun C, Tratsiakovich Y, Mahdi A, Winter H, Chernogubova E, Seime T, Narayanan S, Jiao T, Jin H, Alvarsson M, Zheng X, Yang J, Hedin U, Catrina SB, Maegdefessel L, Pernow J. Downregulation of Erythrocyte miR-210 Induces Endothelial Dysfunction in Type 2 Diabetes. Diabetes. 2022 Feb 1;71(2):285-297. doi: 10.2337/db21-0093. PMID: 34753800	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Yousri NA, Suhre K, Yassin E, Al-Shakaki A, Robay A, Elshafei M, Chidiac O, Hunt SC, Crystal RG, Fakhro KA. Metabolic and Metabo-Clinical Signatures of Type 2 Diabetes, Obesity, Retinopathy, and Dyslipidemia. Diabetes. 2022 Feb 1;71(2):184-205. doi: 10.2337/db21-0490. PMID: 34732537	Study did not fulfil eligibility criteria
He M, Long P, Chen T, Li K, Wei D, Zhang Y, Wang W, Hu Y, Ding Y, Wen A. ALDH2/SIRT1 Contributes to Type 1 and Type 2 Diabetes-Induced Retinopathy through Depressing Oxidative Stress. Oxid Med Cell Longev. 2021 Oct 23;2021:1641717. doi: 10.1155/2021/1641717. eCollection 2021. PMID: 34725563	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Milluzzo A, Maugeri A, Barchitta M, Sciacca L, Agodi A. Epigenetic Mechanisms in Type 2 Diabetes Retinopathy: A Systematic Review. Int J Mol Sci. 2021 Sep 28;22(19):10502. doi: 10.3390/ijms221910502. PMID: 34638838	Ineligible publication type

Wong YH, Wong SH, Wong XT, Yap QY, Yip KY, Wong LZ, Chellappan DK, Bhattamisra SK, Candasamy M. Genetic associated complications of type 2 diabetes mellitus. Panminerva Med. 2022 Jun;64(2):274-288. doi: 10.23736/S0031-0808.21.04285-3. Epub 2021 Oct 5. PMID: 34609116	Ineligible publication type
Chen N, Song S, Yang Z, Wu M, Mu L, Zhou T, Shi Y. ChREBP deficiency alleviates apoptosis by inhibiting TXNIP/oxidative stress in diabetic nephropathy. J Diabetes Complications. 2021 Dec;35(12):108050. doi: 10.1016/j.jdiacomp.2021.108050. Epub 2021 Sep 23. PMID: 34600826	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Sobha SP, Ebenezar K. Susceptibility of Glutathione-S-Transferase Polymorphism to CVD Develo- pment in Type 2 Diabetes Mellitus - A Review. Endocr Metab Immune Disord Drug Targets. 2022;22(2):225-234. doi: 10.2174/1871530321666210908115222. PMID: 34496736	Ineligible publication type
Nie P, Bai X, Lou Y, Zhu Y, Jiang S, Zhang L, Tian N, Luo P, Li B. Human umbilical cord mesenchymal stem cells reduce oxidative damage and apoptosis in diabetic nephropathy by activating Nrf2. Stem Cell Res Ther. 2021 Aug 11;12(1):450. doi: 10.1186/s13287-021-02447-x. PMID: 34380544	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Das RR, Rahman MA, Al-Araby SQ, Islam MS, Rashid MM, Babteen NA, Alnajeebi AM, Alharbi HFH, Jeandet P, Rafi MKJ, Siddique TA, Uddin MN, Zakaria ZA. The Antioxidative Role of Natural Compounds from a Green Coconut Mesocarp Undeniably Contributes to Control Diabetic Complications as Evidenced by the Associated Genes and Biochemical Indexes. Oxid Med Cell Longev. 2021 Jul 27;2021:9711176. doi: 10.1155/2021/9711176. eCollection 2021. PMID: 34367469	Study did not fulfil eligibility criteria
Felisbino K, Granzotti JG, Bello-Santos L, Guiloski IC. Nutrigenomics in Regulating the Expression of Genes Related to Type 2 Diabetes Mellitus. Front Physiol. 2021 Jul 21;12:699220. doi: 10.3389/fphys.2021.699220. eCollection 2021. PMID: 34366888	Ineligible publication type
Wang H, Su X, Zhang QQ, Zhang YY, Chu ZY, Zhang JL, Ren Q. MicroRNA-93-5p participates in type 2 diabetic retinopathy through targeting Sirt1. Int Ophthalmol. 2021 Nov;41(11):3837-3848. doi: 10.1007/s10792-021-01953-4. Epub 2021 Jul 27. PMID: 34313929	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Yao J, Li Y, Jin Y, Chen Y, Tian L, He W. Synergistic cardioptotection by tilianin and syringin in diabetic cardiomyopathy involves interaction of TLR4/NF-κB/NLRP3 and PGC1a/SIRT3 pathways. Int Immunopharmacol. 2021 Jul;96:107728. doi: 10.1016/j.intimp.2021.107728. Epub 2021 May 7. PMID: 33971494	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Mahjabeen W, Khan DA, Mirza SA, Pervez MA. Effects of delta-tocotrienol supplementation on Glycemic Control, oxidative stress, inflammatory biomarkers and miRNA expression in type 2 diabetes mellitus: A randomized control trial. Phytother Res. 2021 Jul;35(7):3968-3976. doi: 10.1002/ptr.7113. Epub 2021 Apr 25. PMID: 33899292	Study did not fulfil eligibility criteria
Su X, Miao W, Li L, Zheng H, Hao G, Du L. Inhibition of Type-2 Diabetes Mellitus Development by Sophocarpine through Targeting PPARγ-Regulated Gene Expression. Dokl Biochem Biophys. 2021 Mar;497(1):137-143. doi: 10.1134/S1607672921020150. Epub 2021 Apr 24. PMID: 33895930	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Li Z, Deng X, Lan Y. Identification of a potentially functional circRNA-miRNA-mRNA regulatory network in type 2 diabetes mellitus by integrated microarray analysis. Minerva Endocrinol (Torino). 2021 Apr 1. doi: 10.23736/S2724-6507.21.03370-8. Online ahead of print. PMID: 33792237	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)

Hammer SS, Vieira CP, McFarland D, Sandler M, Levitsky Y, Dorweiler TF, Lydic TA, Asare-Bediako B, Adu-Agyeiwaah Y, Sielski MS, Dupont M, Longhini AL, Li Calzi S, Chakraborty D, Seigel GM, Proshlyakov DA, Grant MB, Busik JV. Fasting and fasting-mimicking treatment activate SIRT1/LXRα and alleviate diabetes-induced systemic and microvascular dysfunction. Diabetologia. 2021 Jul;64(7):1674-1689. doi: 10.1007/s00125-021-05431-5. Epub 2021 Mar 26. PMID: 33770194	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Jakubik D, Fitas A, Eyileten C, Jarosz-Popek J, Nowak A, Czajka P, Wicik Z, Sourij H, Siller-Matula JM, De Rosa S, Postula M. MicroRNAs and long non-coding RNAs in the pathophysiological processes of diabetic cardiomyopathy: emerging biomarkers and potential therapeutics. Cardiovasc Diabetol. 2021 Feb 27;20(1):55. doi: 10.1186/s12933-021-01245-2. PMID: 33639953	Ineligible publication type
Yao R, Cao Y, Wang C, Xu L, Zhang X, Deng Y, Li F, Wang S. Taohuajing reduces oxidative stress and inflammation in diabetic cardiomyopathy through the sirtuin 1/nucleotide-binding oligomerization domain-like receptor protein 3 pathway. BMC Complement Med Ther. 2021 Feb 26;21(1):78. doi: 10.1186/s12906-021-03218-0. PMID: 33637069	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Zaibi N, Li P, Xu SZ. Protective effects of dapagliflozin against oxidative stress-induced cell injury in human proximal tubular cells. PLoS One. 2021 Feb 19;16(2):e0247234. doi: 10.1371/journal.pone.0247234. eCollection 2021. PMID: 33606763	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Sávio-Silva C, Soinski-Sousa PE, Simplício-Filho A, Bastos RMC, Beyerstedt S, Rangel ÉB. Therapeutic Potential of Mesenchymal Stem Cells in a Pre-Clinical Model of Diabetic Kidney Disease and Obesity. Int J Mol Sci. 2021 Feb 4;22(4):1546. doi: 10.3390/ijms22041546. PMID: 33557007	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Karamian M, Moossavi M, Hemmati M. From diabetes to renal aging: the therapeutic potential of adiponectin. J Physiol Biochem. 2021 May;77(2):205-214. doi: 10.1007/s13105-021-00790-4. Epub 2021 Feb 8. PMID: 33555532	Ineligible publication type
Ghoshal K, Chatterjee T, Chowdhury S, Sengupta S, Bhattacharyya M. Adiponectin Genetic Variant and Expression Coupled with Lipid Peroxidation Reveal New Signatures in Diabetic Dyslipidemia. Biochem Genet. 2021 Jun;59(3):781-798. doi: 10.1007/s10528-021-10030-5. Epub 2021 Feb 4. PMID: 33543406	Study conducted on non-target group of patients (non-diabetic, diabetes type 1 etc.)
Prasun P. Role of mitochondria in pathogenesis of type 2 diabetes mellitus. J Diabetes Metab Disord. 2020 Nov 2;19(2):2017-2022. doi: 10.1007/s40200-020-00679-x. eCollection 2020 Dec. PMID: 33520874	Ineligible publication type
Bokhary K, Aljaser F, Abudawood M, Tabassum H, Bakhsh A, Alhammad S, Aleyadhi R, Almajed F, Alsubki R. Role of Oxidative Stress and Severity of Diabetic Retinopathy in Type 1 and Type 2 Diabetes. Ophthalmic Res. 2021;64(4):613-621. doi: 10.1159/000514722. Epub 2021 Jan 26. PMID: 33498043	Study did not fulfil eligibility criteria
Natarajan R. Epigenetic Mechanisms in Diabetic Vascular Complications and Metabolic Memory: The 2020 Edwin Bierman Award Lecture. Diabetes. 2021 Feb;70(2):328-337. doi: 10.2337/dbi20-0030. PMID: 33472942	Ineligible publication type
Snegarova V, Naydenova D. Vitamin D: a Review of its Effects on Epigenetics and Gene Regulation. Folia Med (Plovdiv). 2020 Dec 31;62(4):662-667. doi: 10.3897/folmed.62.e50204.. PMID: 33415918	Ineligible publication type

Darmayanti S, Lesmana R, Meiliana A, Abdulah R. Genomics, Proteomics and Metabolomics Approaches for Predicting Diabetic Nephropathy in Type 2 Diabetes Mellitus Patients. Curr Diabetes Rev. 2021;17(6):e123120189796. doi: 10.2174/1573399817666210101105253. PMID: 33393899	Ineligible publication type
Behl T, Kaur I, Sehgal A, Sharma E, Kumar A, Grover M, Bungau S. Unfolding Nrf2 in diabetes mellitus. Mol Biol Rep. 2021 Jan;48(1):927-939. doi: 10.1007/s11033-020-06081-3. Epub 2021 Jan 3. PMID: 33389540	Ineligible publication type
Victor P, Umapathy D, George L, Juttada U, Ganesh GV, Amin KN, Viswanathan V, Ramkumar KM. Crosstalk between endoplasmic reticulum stress and oxidative stress in the progression of diabetic nephropathy. Cell Stress Chaperones. 2021 Mar;26(2):311-321. doi: 10.1007/s12192-020-01176-z. Epub 2020 Nov 7. PMID: 33161510	Study did not fulfil eligibility criteria
Man AWC, Xia N, Li H. Circadian Rhythm in Adipose Tissue: Novel Antioxidant Target for Metabolic and Cardiovascular Diseases. Antioxidants (Basel). 2020 Oct 9;9(10):968. doi: 10.3390/antiox9100968. PMID: 33050331	Ineligible publication type
Hashiesh HM, Meeran MFN, Sharma C, Sadek B, Kaabi JA, Ojha SK. Therapeutic Potential of β-Caryophyllene: A Dietary Cannabinoid in Diabetes and Associated Complications. Nutrients. 2020 Sep 28;12(10):2963. doi: 10.3390/nu12102963. PMID: 32998300	Ineligible publication type
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Paneni F, Costantino S, Battista R, Castello L, Capretti G, Chiandotto S, Scavone G, Villano A, Pitocco D, Lanza G, Volpe M, Lüscher TF, Cosentino F. Adverse epigenetic signatures by histone methyltransferase Set7 contribute to vascular dysfunction in patients with type 2 diabetes mellitus. Circ Cardiovasc Genet. 2015 Feb;8(1):150-8. doi: 10.1161/CIRCGENETICS.114.000671. Epub 2014 Dec 3. PMID: 25472959	Study did not fulfil eligibility criteria
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