

Appendix F – List of in vivo toxicokinetic and toxicity studies retrieved in the literature search

Several of the listed studies can also include in vitro assays that were not considered further in the assessment.

Author	Title	year
Abbasi-Oshaghi, E.,Mirzaei, F.,Pourjafar, M.	NLRP3 inflammasome, oxidative stress, and apoptosis induced in the intestine and liver of rats treated with titanium dioxide nanoparticles: in vivo and in vitro study	2019
Abdelazim, S. A.,Darwish, H. A.,Ali, S. A.,Rizk, M. Z.,Kadry, M. O.	Potential antifibrotic and angiostatic impact of idebenone, carnosine and vitamin E in nano-sized titanium dioxide-induced liver injury	2015
Abdou, K. H.,Moselhy, W. A.,Mohamed, H. M.,El-Nahass, E. S.,Khalifa, A. G.	Moringa oleifera Leaves Extract Protects Titanium Dioxide Nanoparticles-Induced Nephrotoxicity via Nrf2/HO-1 Signaling and Amelioration of Oxidative Stress	2019
Aijie, C.,Huimin, L.,Jia, L.,Lingling, O.,Limin, W.,Junrong, W.,Xuan, L.,Xue, H.,Longquan, S.	Central neurotoxicity induced by the instillation of ZnO and TiO ₂ nanoparticles through the taste nerve pathway	2017
Ali, S. A.,Rizk, M. Z.,Hamed, M. A.,Aboul-Ela, E. I.,El-Rigal, N. S.,Aly, H. F.,Abdel-Hamid, A. Z.	Assessment of titanium dioxide nanoparticles toxicity via oral exposure in mice: effect of dose and particle size	2019
Alidadi, H.,Khorsandi, L.,Shirani, M.	Effects of Quercetin on Tubular Cell Apoptosis and Kidney Damage in Rats Induced by Titanium Dioxide Nanoparticles	2018
Ammendolia, M. G.,Iosi, F.,Maranghi, F.,Tassinari, R.,Cubadda, F.,Aureli, F.,Raggi, A.,Superti, F.,Mantovani, A.,De Berardis, B.	Short-term oral exposure to low doses of nano-sized TiO ₂ and potential modulatory effects on intestinal cells	2017
Asghari, A.,Hosseini, M.,Beheshti, F.,Shafei, M. N.,Mehri, S.	Inducible nitric oxide inhibitor aminoguanidine, ameliorated oxidative stress, interleukin-6 concentration and improved brain-derived neurotrophic factor in the brain tissues of neonates born from titanium dioxide nanoparticles exposed rats	2019
Azim, S. A.,Darwish, H. A.,Rizk, M. Z.,Ali, S. A.,Kadry, M. O.	Amelioration of titanium dioxide nanoparticles-induced liver injury in mice: possible role of some antioxidants	2015
Bettini, S.,Boutet-Robinet, E.,Cartier, C.,Comera, C.,Gaultier, E.,Dupuy, J.,Naud, N.,Tache, S.,Grysan, P.,Reguer, S.,Thieriet, N.,Refregiers, M.,Thiaudiere, D.,Cravedi, J. P.,Carriere, M.,Audinot, J. N.,Pierre, F. H.,Guzylack-Piriou, L.,Houdeau, E.	Food-grade TiO ₂ impairs intestinal and systemic immune homeostasis, initiates preneoplastic lesions and promotes aberrant crypt development in the rat colon	2017
Blevins, L. K.,Crawford, R. B.,Bach, A.,Rizzo, M. D.,Zhou, J.,Henriquez, J. E.,Khan, Dmio,Sermet, S.,Arnold, L. L.,Pennington, K. L.,Souza, N. P.,Cohen, S. M.,Kaminski, N. E.	Evaluation of immunologic and intestinal effects in rats administered an E 171-containing diet, a food grade titanium dioxide (TiO ₂)	2019
Cai, J.,Zang, X.,Wu, Z.,Liu, J.,Wang, D.	Translocation of transition metal oxide nanoparticles to breast milk and offspring: The necessity of bridging mother-offspring-integration toxicological assessments	2019
Canli, E. G.,Atli, G.,Canli, M.	Response of the antioxidant enzymes of the erythrocyte and alterations in the serum biomarkers in rats following oral administration of nanoparticles	2017
Canli, E. G.,Gumus, C.,Canli, M.,Ila, H. B.	The effects of titanium nanoparticles on enzymatic and non-enzymatic biomarkers in female Wistar rats	2020

Canli, E. G.,Ila, H. B.,Canli, M.	Response of the antioxidant enzymes of rats following oral administration of metal-oxide nanoparticles (Al ₂ O ₃ , CuO, TiO ₂)	2019
Chakrabarti, S.,Goyary, D.,Karmakar, S.,Chattopadhyay, P.	Exploration of cytotoxic and genotoxic endpoints following sub-chronic oral exposure to titanium dioxide nanoparticles	2019
Chen, Z.,Han, S.,Zhou, D.,Zhou, S.,Jia, G.	Effects of oral exposure to titanium dioxide nanoparticles on gut microbiota and gut-associated metabolism in vivo	2019
Chen, Z.,Wang, Y.,Wang, X.,Zhuo, L.,Chen, S.,Tang, S.,Zhao, L.,Luan, X.,Jia, G.	Effect of titanium dioxide nanoparticles on glucose homeostasis after oral administration	2018
Chen, Z.,Wang, Y.,Zhuo, L.,Chen, S.,Zhao, L.,Chen, T.,Li, Y.,Zhang, W.,Gao, X.,Li, P.,Wang, H.,Jia, G.	Interaction of titanium dioxide nanoparticles with glucose on young rats after oral administration	2015
Chen, Z.,Wang, Y.,Zhuo, L.,Chen, S.,Zhao, L.,Luan, X.,Wang, H.,Jia, G.	Effect of titanium dioxide nanoparticles on the cardiovascular system after oral administration	2015
Chen, Z.,Zhou, D.,Han, S.,Zhou, S.,Jia, G.	Hepatotoxicity and the role of the gut-liver axis in rats after oral administration of titanium dioxide nanoparticles	2019
Chen, Z.,Zhou, D.,Wang, Y.,Zhao, L.,Hu, G.,Liu, J.,Feng, H.,Long, C.,Yan, T.,Zhou, S.,Jia, G.	Combined effect of titanium dioxide nanoparticles and glucose on the cardiovascular system in young rats after oral administration	2019
Chen, Z.,Zhou, D.,Zhou, S.,Jia, G.	Gender difference in hepatic toxicity of titanium dioxide nanoparticles after subchronic oral exposure in Sprague-Dawley rats	2019
Dekanski, D.,Spremo-Potparevic, B.,Bajic, V.,Zivkovic, L.,Topalovic, D.,Sredojevic, D. N.,Lazic, V.,Nedeljkovic, J. M.	Acute toxicity study in mice of orally administrated TiO ₂ nanoparticles functionalized with caffeic acid	2018
Disdier, C.,Devoy, J.,Cosnefroy, A.,Chalansonnet, M.,Herlin-Boime, N.,Brun, E.,Lund, A.,Mabondzo, A.	Tissue biodistribution of intravenously administrated titanium dioxide nanoparticles revealed blood-brain barrier clearance and brain inflammation in rat	2015
Donner, E. M.,Myhre, A.,Brown, S. C.,Boatman, R.,Warheit, D. B.	In vivo micronucleus studies with 6 titanium dioxide materials (3 pigment-grade & 3 nanoscale) in orally-exposed rats	2016
Ebrahimzadeh Bideskan, A.,Mohammadipour, A.,Fazel, A.,Haghir, H.,Rafatpanah, H.,Hosseini, M.,Rajabzadeh, A.	Maternal exposure to titanium dioxide nanoparticles during pregnancy and lactation alters offspring hippocampal mRNA BAX and Bcl-2 levels, induces apoptosis and decreases neurogenesis	2017
El-Bassyouni, G. T.,Eshak, M. G.,Barakat, I. A. H.,Khalil, W. K. B.	Immunotoxicity evaluation of novel bioactive composites in male mice as promising orthopaedic implants	2017
El-Din, E. A. A.,Mostafa, H. E.,Samak, M. A.,Mohamed, E. M.,El-Shafei, D. A.	Could curcumin ameliorate titanium dioxide nanoparticles effect on the heart? A histopathological, immunohistochemical, and genotoxic study	2019
Elgrabli, D.,Beaudouin, R.,Jbilou, N.,Floriani, M.,Pery, A.,Rogerieux, F.,Lacroix, G.	Biodistribution and Clearance of TiO ₂ Nanoparticles in Rats after Intravenous Injection	2015
Elnagar, A. M. B.,Ibrahim, A.,Soliman, A. M.	Histopathological Effects of Titanium Dioxide Nanoparticles and The Possible Protective Role of N-Acetylcysteine on The Testes of Male Albino Rats	2018
Fadda, L. M.,Ali, H. M.,Mohamed, A. M.,Hagar, H.	Prophylactic administration of carnosine and melatonin abates the incidence of apoptosis, inflammation, and DNA damage induced by titanium dioxide nanoparticles in rat livers	2019
Fadda, L. M.,Hagar, H.,Mohamed, A. M.,Ali, H. M.	Quercetin and Idebenone Ameliorate Oxidative Stress, Inflammation, DNA damage, and Apoptosis Induced by Titanium Dioxide Nanoparticles in Rat Liver	2018
Fadda, L. M.,Mohamed, A. M.,Ali, H. M.,Hagar, H.,Aldossari, M.	Prophylactic administration of carnosine and melatonin abates the incidence of renal toxicity induced by an over dose of titanium dioxide nanoparticles	2018

Fadoju, O.,Ogunsuyi, O.,Akanni, O.,Alabi, O.,Alimba, C.,Adaramoye, O.,Cambier, S.,Eswara, S.,Gutleb, A. C.,Bakare, A.	Evaluation of cytogenotoxicity and oxidative stress parameters in male Swiss mice co-exposed to titanium dioxide and zinc oxide nanoparticles	2019
Farrell, T. P.,Magnuson, B.	Absorption, Distribution and Excretion of Four Forms of Titanium Dioxide Pigment in the Rat	2017
Grissa, I.,Elghoul, J.,Ezzi, L.,Chakroun, S.,Kerkeni, E.,Hassine, M.,El Mir, L.,Mehdi, M.,Ben Cheikh, H.,Haouas, Z.	Anemia and genotoxicity induced by sub-chronic intragastric treatment of rats with titanium dioxide nanoparticles	2015
Grissa, I.,ElGhoul, J.,Mrimi, R.,Mir, L. E.,Cheikh, H. B.,Horcajada, P.	In deep evaluation of the neurotoxicity of orally administered TiO ₂ nanoparticles	2020
Grissa, I.,Ezzi, L.,Chakroun, S.,Mabrouk, A.,Saleh, A. B.,Braham, H.,Haouas, Z.,Cheikh, H. B.	Rosmarinus officinalis L. ameliorates titanium dioxide nanoparticles and induced some toxic effects in rats' blood	2017
Grissa, I.,Guezguez, S.,Ezzi, L.,Chakroun, S.,Salle, A.,Kerkeni, E.,Elghoul, J.,El Mir, L.,Mehdi, M.,Cheikh, H. B.,Haouas, Z.	The effect of titanium dioxide nanoparticles on neuroinflammation response in rat brain	2016
Gu, N.,Hu, H.,Guo, Q.,Jin, S.,Wang, C.,Oh, Y.,Feng, Y.,Wu, Q.	Effects of oral administration of titanium dioxide fine-sized particles on plasma glucose in mice	2015
Hassanein, K. M.,El-Amir, Y. O.	Protective effects of thymoquinone and avenanthramides on titanium dioxide nanoparticles induced toxicity in Sprague-Dawley rats	2017
Hassanein, K. M. A.,El-Amir, Y. O.	Ameliorative effects of thymoquinone on titanium dioxide nanoparticles induced acute toxicity in rats	2018
Heringa, M. B.,Peters, R. J. B.,Bleys, Rlaw, van der Lee, M. K.,Tromp, P. C.,van Kesteren, P. C. E.,van Eijkeren, J. C. H.,Undas, A. K.,Oomen, A. G.,Bouwmeester, H.	Detection of titanium particles in human liver and spleen and possible health implications	2018
Hong, F.,Hong, J.,Wang, L.,Zhou, Y.,Liu, D.,Xu, B.,Yu, X.,Sheng, L.	Chronic exposure to nanoparticulate TiO ₂ causes renal fibrosis involving activation of the Wnt pathway in mouse kidney	2015
Hong, F.,Si, W.,Zhao, X.,Wang, L.,Zhou, Y.,Chen, M.,Ge, Y.,Zhang, Q.,Wang, Y.,Zhang, J.	TiO ₂ Nanoparticle Exposure Decreases Spermatogenesis via Biochemical Dysfunctions in the Testis of Male Mice	2015
Hong, F.,Wang, L.	Nanosized titanium dioxide-induced premature ovarian failure is associated with abnormalities in serum parameters in female mice	2018
Hong, F.,Wang, Y.,Zhou, Y.,Zhang, Q.,Ge, Y.,Chen, M.,Hong, J.,Wang, L.	Exposure to TiO ₂ Nanoparticles Induces Immunological Dysfunction in Mouse Testitis	2016
Hong, F.,Wu, N.,Ge, Y.,Zhou, Y.,Shen, T.,Qiang, Q.,Zhang, Q.,Chen, M.,Wang, Y.,Wang, L.,Hong, J.	Nanosized titanium dioxide resulted in the activation of TGF-beta/Smads/p38MAPK pathway in renal inflammation and fibration of mice	2016
Hong, F.,Wu, N.,Zhao, X.,Tian, Y.,Zhou, Y.,Chen, T.,Zhai, Y.,Ji, L.	Titanium dioxide nanoparticle-induced dysfunction of cardiac hemodynamics is involved in cardiac inflammation in mice	2016
Hong, F.,Wu, N.,Zhou, Y.,Ji, L.,Chen, T.,Wang, L.	Gastric toxicity involving alterations of gastritis-related protein expression in mice following long-term exposure to nano TiO ₂	2017
Hong, F.,Zhao, X.,Si, W.,Ze, Y.,Wang, L.,Zhou, Y.,Hong, J.,Yu, X.,Sheng, L.,Liu, D.,Xu, B.,Zhang, J.	Decreased spermatogenesis led to alterations of testis-specific gene expression in male mice following nano-TiO ₂ exposure	2015

Hong, F.,Zhou, Y.,Ji, J.,Zhuang, J.,Sheng, L.,Wang, L.	Nano-TiO ₂ Inhibits Development of the Central Nervous System and Its Mechanism in Offspring Mice	2018
Hong, F.,Zhou, Y.,Zhao, X.,Sheng, L.,Wang, L.	Maternal exposure to nanosized titanium dioxide suppresses embryonic development in mice	2017
Hong, F.,Zhou, Y.,Zhou, Y.,Wang, L.	Immunotoxic effects of thymus in mice following exposure to nanoparticulate TiO ₂	2017
Hu, H.,Fan, X.,Yin, Y.,Guo, Q.,Yang, D.,Wei, X.,Zhang, B.,Liu, J.,Wu, Q.,Oh, Y.,Chen, K.,Feng, Y.,Hou, L.,Li, L.,Gu, N.	Mechanisms of titanium dioxide nanoparticle-induced oxidative stress and modulation of plasma glucose in mice	2019
Hu, H.,Guo, Q.,Wang, C.,Ma, X.,He, H.,Oh, Y.,Feng, Y.,Wu, Q.,Gu, N.	Titanium dioxide nanoparticles increase plasma glucose via reactive oxygen species-induced insulin resistance in mice	2015
Hu, H.,Li, L.,Guo, Q.,Jin, S.,Zhou, Y.,Oh, Y.,Feng, Y.,Wu, Q.,Gu, N.	A mechanistic study to increase understanding of titanium dioxide nanoparticles-increased plasma glucose in mice	2016
Hu, H.,Li, L.,Guo, Q.,Zong, H.,Yan, Y.,Yin, Y.,Wang, Y.,Oh, Y.,Feng, Y.,Wu, Q.,Gu, N.	RNA sequencing analysis shows that titanium dioxide nanoparticles induce endoplasmic reticulum stress, which has a central role in mediating plasma glucose in mice	2018
Hu, H.,Zhang, B.,Li, L.,Guo, Q.,Yang, D.,Wei, X.,Fan, X.,Liu, J.,Wu, Q.,Oh, Y.,Feng, Y.,Chen, K.,Wang, C.,Hou, L.,Gu, N.	The toxic effects of titanium dioxide nanoparticles on plasma glucose metabolism are more severe in developing mice than in adult mice	2019
Huang, C.,Sun, M.,Yang, Y.,Wang, F.,Ma, X.,Li, J.,Wang, Y.,Ding, Q.,Ying, H.,Song, H.,Wu, Y.,Jiang, Y.,Jia, X.,Ba, Q.,Wang, H.	Titanium dioxide nanoparticles prime a specific activation state of macrophages	2017
Hussein, M. M. A.,Gad, E.,Ahmed, M. M.,Arisha, A. H.,Mahdy, H. F.,Swelum, A. A.,Tukur, H. A.,Saadeldin, I. M.	Amelioration of titanium dioxide nanoparticle reprotoxicity by the antioxidants morin and rutin	2019
Jafari, A.,Karimipour, M.,Khaksar, M. R.,Ghasemnejad-Berenji, M.	Protective effects of orally administered thymol against titanium dioxide nanoparticle-induced testicular damage	2020
Jafari, A.,Rasmi, Y.,Hajaghadzadeh, M.,Karimipour, M.	Hepatoprotective effect of thymol against subchronic toxicity of titanium dioxide nanoparticles: Biochemical and histological evidences	2018
Jia, X.,Wang, S.,Zhou, L.,Sun, L.	The Potential Liver, Brain, and Embryo Toxicity of Titanium Dioxide Nanoparticles on Mice	2017
Jo, M. R.,Yu, J.,Kim, H. J.,Song, J. H.,Kim, K. M.,Oh, J. M.,Choi, S. J.	Titanium Dioxide Nanoparticle-Biomolecule Interactions Influence Oral Absorption	2016
Jones, K.,Morton, J.,Smith, I.,Jurkschat, K.,Harding, A. H.,Evans, G.	Human in vivo and in vitro studies on gastrointestinal absorption of titanium dioxide nanoparticles	2015
Kandeil, M. A.,Mohammed, E. T.,Hashem, K. S.,Aleya, L.,Abdel-Daim, M. M.	Moringa seed extract alleviates titanium oxide nanoparticles (TiO ₂ -NPs)-induced cerebral oxidative damage, and increases cerebral mitochondrial viability	2019
Karimi, S.,Khorsandi, L.,Nejaddehbash, F.	Protective effects of Curcumin on testicular toxicity induced by titanium dioxide nanoparticles in mice	2019
Karimipour, M.,Zirak Javanmard, M.,Ahmadi, A.,Jafari, A.	Oral administration of titanium dioxide nanoparticle through ovarian tissue alterations impairs mice embryonic development	2018
Khan, S. T.,Saleem, S.,Ahamed, M.,Ahmad, J.	Survival of probiotic bacteria in the presence of food grade nanoparticles from chocolates: an in vitro and in vivo study	2019
Khorsandi, L.,Orazizadeh, M.,Mansori, E.,Fakhredini, F.	Glycyrrhizic acid attenuated lipid peroxidation induced by titanium dioxide nanoparticles in rat liver	2015
Khorsandi, L.,Orazizadeh, M.,Mansouri, E.,Hemadi, M.,Moradi-Gharibvand, N.	Morphometric and stereological assessment of the effects of titanium dioxide nanoparticles on the mouse testicular tissue	2016
Khorsandi, L.,Orazizadeh, M.,Moradi-Gharibvand, N.,Hemadi, M.,Mansouri, E.	Beneficial effects of quercetin on titanium dioxide nanoparticles induced spermatogenesis defects in mice	2017

Kim, M. K.,Lee, J. A.,Jo, M. R.,Choi, S. J.	Bioavailability of Silica, Titanium Dioxide, and Zinc Oxide Nanoparticles in Rats	2016
Kreyling, W. G.,Holzwarth, U.,Haberl, N.,Kozempel, J.,Hirn, S.,Wenk, A.,Schleh, C.,Schaffler, M.,Lipka, J.,Semmler-Behnke, M.,Gibson, N.	Quantitative biokinetics of titanium dioxide nanoparticles after intravenous injection in rats: Part 1	2017
Kreyling, W. G.,Holzwarth, U.,Schleh, C.,Kozempel, J.,Wenk, A.,Haberl, N.,Hirn, S.,Schaffler, M.,Lipka, J.,Semmler-Behnke, M.,Gibson, N.	Quantitative biokinetics of titanium dioxide nanoparticles after oral application in rats: Part 2	2017
Kumar, S.,Meena, R.,Paulraj, R.	Role of Macrophage (M1 and M2) in Titanium-Dioxide Nanoparticle-Induced Oxidative Stress and Inflammatory Response in Rat	2016
Latif, M. A.,Jabeen, F.,Ali, M.,Rasul, A.,Naz, S.,Akram, M.	Neurotoxic effects of titanium dioxide nanoparticles on the brain of male sprague dawley rats	2019
Lee, J.,Jeong, J. S.,Kim, S. Y.,Park, M. K.,Choi, S. D.,Kim, U. J.,Park, K.,Jeong, E. J.,Nam, S. Y.,Yu, W. J.	Titanium dioxide nanoparticles oral exposure to pregnant rats and its distribution	2019
Li, J.,Yang, S.,Lei, R.,Gu, W.,Qin, Y.,Ma, S.,Chen, K.,Chang, Y.,Bai, X.,Xia, S.,Wu, C.,Xing, G.	Oral administration of rutile and anatase TiO ₂ nanoparticles shifts mouse gut microbiota structure	2018
Li, X.,Song, L.,Hu, X.,Liu, C.,Shi, J.,Wang, H.,Zhan, L.,Song, H.	Inhibition of Epithelial-Mesenchymal Transition and Tissue Regeneration by Waterborne Titanium Dioxide Nanoparticles	2018
Li, Y.,Yan, J.,Ding, W.,Chen, Y.,Pack, L. M.,Chen, T.	Genotoxicity and gene expression analyses of liver and lung tissues of mice treated with titanium dioxide nanoparticles	2017
Mao, Z.,Li, Y.,Dong, T.,Zhang, L.,Zhang, Y.,Li, S.,Hu, H.,Sun, C.,Xia, Y.	Exposure to Titanium Dioxide Nanoparticles During Pregnancy Changed Maternal Gut Microbiota and Increased Blood Glucose of Rat	2019
Martins, A. D. C., Jr.,Azevedo, L. F.,de Souza Rocha, C. C.,Carneiro, M. F. H.,Venancio, V. P.,de Almeida, M. R.,Antunes, L. M. G.,de Carvalho Hott, R.,Rodrigues, J. L.,Ogunjimi, A. T.,Adeyemi, J. A.,Barbosa, F., Jr.	Evaluation of distribution, redox parameters, and genotoxicity in Wistar rats co-exposed to silver and titanium dioxide nanoparticles	2017
Meena, R.,Kajal, K.,R, P.	Cytotoxic and genotoxic effects of titanium dioxide nanoparticles in testicular cells of male wistar rat	2015
Miura, N.,Ohtani, K.,Hasegawa, T.,Yoshioka, H.,Hwang, G. W.	High sensitivity of testicular function to titanium nanoparticles	2017
Miura, N.,Ohtani, K.,Hasegawa, T.,Yoshioka, H.,Hwang, G. W.	Biphasic adverse effect of titanium nanoparticles on testicular function in mice	2019
Modrzynska, J.,Berthing, T.,Ravn-Haren, G.,Kling, K.,Mortensen, A.,Rasmussen, R. R.,Larsen, E. H.,Saber, A. T.,Vogel, U.,Loeschner, K.	In vivo-induced size transformation of cerium oxide nanoparticles in both lung and liver does not affect long-term hepatic accumulation following pulmonary exposure	2018
Mohamed, H. R.	Estimation of TiO ₂ nanoparticle-induced genotoxicity persistence and possible chronic gastritis-induction in mice	2015
Mohamed, H. R.,Hussien, N. A.	Genotoxicity Studies of Titanium Dioxide Nanoparticles (TiO ₂ NPs) in the Brain of Mice	2016
Mohammadipour, A.,Hosseini, M.,Fazel, A.,Haghir, H.,Rafatpanah, H.,Pourganji, M.,Bideskan, A. E.	The effects of exposure to titanium dioxide nanoparticles during lactation period on learning and memory of rat offspring	2016
Mohammed, E. T.,Safwat, G. M.	Grape Seed Proanthocyanidin Extract Mitigates Titanium Dioxide Nanoparticle (TiO ₂ -NPs)-Induced Hepatotoxicity Through TLR-4/NF-kappaB Signaling Pathway	2019

Moradi, A., Ziamajidi, N., Ghafourikhosroshahi, A., Abbasalipourkabir, R.	Effects of vitamin A and vitamin E on attenuation of titanium dioxide nanoparticles-induced toxicity in the liver of male Wistar rats	2019
Morgan, A., Galal, M. K., Ogaly, H. A., Ibrahim, M. A., Abd-Elsalam, R. M., Noshay, P.	Tiron ameliorates oxidative stress and inflammation in titanium dioxide nanoparticles induced nephrotoxicity of male rats	2017
Morgan, A., Ibrahim, M. A., Galal, M. K., Ogaly, H. A., Abd-Elsalam, R. M.	Innovative perception on using Tiron to modulate the hepatotoxicity induced by titanium dioxide nanoparticles in male rats	2018
Morgan, A. M., Ibrahim, M. A., Noshay, P. A.	Reproductive toxicity provoked by titanium dioxide nanoparticles and the ameliorative role of Tiron in adult male rats	2017
Mu, W., Wang, Y., Huang, C., Fu, Y., Li, J., Wang, H., Jia, X., Ba, Q.	Effect of Long-Term Intake of Dietary Titanium Dioxide Nanoparticles on Intestine Inflammation in Mice	2019
Naserzadeh, P., Ghanbary, F., Ashtari, P., Seydi, E., Ashtari, K., Akbari, M.	Biocompatibility assessment of titanium dioxide nanoparticles in mice fetoplacental unit	2018
Niu, L., Shao, M., Liu, Y., Hu, J., Li, R., Xie, H., Zhou, L., Shi, L., Zhang, R., Niu, Y.	Reduction of oxidative damages induced by titanium dioxide nanoparticles correlates with induction of the Nrf2 pathway by GSPE supplementation in mice	2017
Orazizadeh, M., Daneshi, E., Hashemitmar, M., Absalan, F., Khorsandi, L.	Protective effect of beta-carotene against titanium dioxide nanoparticles induced apoptosis in mouse testicular tissue	2015
Pele, L. C., Thoree, V., Brugggraber, S. F., Koller, D., Thompson, R. P., Lomer, M. C., Powell, J. J.	Pharmaceutical/food grade titanium dioxide particles are absorbed into the bloodstream of human volunteers	2015
Peters, R. J. B., Oomen, A. G., van Bommel, G., van Vliet, L., Undas, A. K., Munniks, S., Bley, R., Law, Tromp, P. C., Brand, W., van der Lee, M.	Silicon dioxide and titanium dioxide particles found in human tissues	2020
Pinget, G., Tan, J., Janac, B., Kaakoush, N. O., Angelatos, A. S., O'Sullivan, J., Koay, Y. C., Sierro, F., Davis, J., Divakarla, S. K., Khanal, D., Moore, R. J., Stanley, D., Chrzanowski, W., Macia, L.	Impact of the Food Additive Titanium Dioxide (E171) on Gut Microbiota-Host Interaction	2019
Proquin, H., Jetten, M. J., Jonkhout, M. C. M., Garduno-Balderas, L. G., Briede, J. J., de Kok, T. M., Chirino, Y. I., van Loveren, H.	Gene expression profiling in colon of mice exposed to food additive titanium dioxide (E171)	2018
Proquin, H., Jetten, M. J., Jonkhout, M. C. M., Garduno-Balderas, L. G., Briede, J. J., de Kok, T. M., van Loveren, H., Chirino, Y. I.	Transcriptomics analysis reveals new insights in E171-induced molecular alterations in a mouse model of colon cancer	2018
Rizk, M. Z., Ali, S. A., Hamed, M. A., El-Rigal, N. S., Aly, H. F., Salah, H. H.	Toxicity of titanium dioxide nanoparticles: Effect of dose and time on biochemical disturbance, oxidative stress and genotoxicity in mice	2017
Rizk, M. Z., Ali, S. A., Kadry, M. O., Fouad, G. I., Kamel, N. N., Younis, E. A., Gouda, S. M.	C-reactive Protein Signaling and Chromosomal Abnormalities in Nanotoxicity Induced via Different Doses of TiO ₂ (80 nm) Boost Liver Function	2020
Rodriguez-Escamilla, J. C., Medina-Reyes, E. I., Rodriguez-Ibarra, C., Deciga-Alcaraz, A., Flores-Flores, J. O., Ganem-Rondero, A., Rodriguez-Sosa, M., Terrazas, L. I., Delgado-Buenrostro, N. L., Chirino, Y. I.	Food-grade titanium dioxide (E171) by solid or liquid matrix administration induces inflammation, germ cells sloughing in seminiferous tubules and blood-testis barrier disruption in mice	2019
Rossi, S., Savi, M., Mazzola, M., Pinelli, S., Alinovi, R., Gennaccaro, L., Pagliaro, R.	Subchronic exposure to titanium dioxide nanoparticles modifies cardiac structure and performance in spontaneously hypertensive rats	2019

A.,Meraviglia, V.,Galetti, M.,Lozano-Garcia, O.,Rossini, A.,Frati, C.,Falco, A.,Quaini, F.,Bocchi, L.,Stilli, D.,Lucas, S.,Goldoni, M.,Macchi, E.,Mutti, A.,Miragoli, M.		
Ruiz, P. A.,Moron, B.,Becker, H. M.,Lang, S.,Atrott, K.,Spalinger, M. R.,Scharl, M.,Wojtal, K. A.,Fischbeck-Terhalle, A.,Frey-Wagner, I.,Hausmann, M.,Kraemer, T.,Rogler, G.	Titanium dioxide nanoparticles exacerbate DSS-induced colitis: role of the NLRP3 inflammasome	2017
Shahin, N. N.,Mohamed, M. M.	Nano-sized titanium dioxide toxicity in rat prostate and testis: Possible ameliorative effect of morin	2017
Sharafutdinova, L. A.,Fedorova, A. M.,Bashkatov, S. A.,Sinel'nikov, K. N.,Valiullin, V. V.	Structural and Functional Analysis of the Spermatogenic Epithelium in Rats Exposed to Titanium Dioxide Nanoparticles	2018
Shi, Z.,Niu, Y.,Wang, Q.,Shi, L.,Guo, H.,Liu, Y.,Zhu, Y.,Liu, S.,Liu, C.,Chen, X.,Zhang, R.	Reduction of DNA damage induced by titanium dioxide nanoparticles through Nrf2 in vitro and in vivo	2015
Silva, A. H.,Locatelli, C.,Filho, U. P.,Gomes, B. F.,de Carvalho Junior, R. M.,de Gois, J. S.,Borges, D. L.,Creczynski-Pasa, T. B.	Visceral fat increase and signals of inflammation in adipose tissue after administration of titanium dioxide nanoparticles in mice	2017
Smith, M. A.,Michael, R.,Aravindan, R. G.,Dash, S.,Shah, S. I.,Galileo, D. S.,Martin-DeLeon, P. A.	Anatase titanium dioxide nanoparticles in mice: evidence for induced structural and functional sperm defects after short-, but not long-, term exposure	2015
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Suzuki, T.,Miura, N.,Hojo, R.,Yanagiba, Y.,Suda, M.,Hasegawa, T.,Miyagawa, M.,Wang, R. S.	Genotoxicity assessment of intravenously injected titanium dioxide nanoparticles in gpt delta transgenic mice	2016
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Tsui, S. M.,Ahmed, R.,Amjad, N.,Ahmed, I.,Yang, J.,Manno, F. A.,Barman, I.,Shih, W. C.,Lau, C.	Single red blood cell analysis reveals elevated hemoglobin in poikilocytes	2020
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Zhou, Y.,Ji, J.,Chen, C.,Hong, F.	Retardation of Axonal and Dendritic Outgrowth Is Associated with the MAPK Signaling Pathway in Offspring Mice Following Maternal Exposure to Nanosized Titanium Dioxide	2019
Zhou, Y.,Ji, J.,Hong, F.,Zhuang, J.,Wang, L.	Maternal Exposure to Nanoparticulate Titanium Dioxide Causes Inhibition of Hippocampal Development Involving Dysfunction of the Rho/NMDAR Signaling Pathway in Offspring	2019
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Xia, Z. L., He, J. L., Li, B. W., He, K., Yang, W. B., Chen, X. X., Zhang, J. Q., Xiang, G. A.	Titanium dioxide nanoparticles induce mitochondria-associated apoptosis in HepG2 cells	2018
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Orazizadeh, M., Khorsandi, L., Mansouri, E., Fakhredini, F.	The effect of glycyrrhizin acid on Bax and Bcl2 expression in hepatotoxicity induced by Titanium dioxide nanoparticles in rats	2020
Murugadoss, S., Brassinne, F., Sebaihi, N., Petry, J., Cokic, S. M., Van Landuyt, K. L., Godderis, L., Mast, J., Lison, D., Hoet, P. H., van den Brule, S.	Agglomeration of titanium dioxide nanoparticles increases toxicological responses in vitro and in vivo	2020

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Hong, F., Zhou, Y.	Spermatogenic Apoptosis and the Involvement of the Nrf2 Pathway in Male Mice Following Exposure to Nano Titanium Dioxide	2020
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Chen, Z. J., Han, S., Zhou, D., Zheng, P., Zhou, S. P., Jia, G.	Serum metabolomic signatures of Sprague-Dawley rats after oral administration of titanium dioxide nanoparticles	2020
Chen, Z., Zheng, P., Han, S., Zhang, J., Li, Z., Zhou, S., Jia, G.	Tissue-specific oxidative stress and element distribution after oral exposure to titanium dioxide nanoparticles in rats	2020
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Lu, T., Ling, C., Hu, M., Meng, X., Deng, Y., An, H., Li, L., Hu, Y., Wang, H., Song, G., Guo, S.	Effect of Nano-Titanium Dioxide on Blood-Testis Barrier and MAPK Signaling Pathway in Male Mice	2020
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Rahnama, S.,Hassanpour, A.,Yadegari, M.,Anvari, M.,Hosseini-sharifabad, M.	Effect of Titanium Dioxide Nanoparticles on the Stereological Parameters of the Dentate Gyrus and the Morphology of Granular Hippocampal Neurons in Mice	2020
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