

HULYA ELBE, MD, Assoc Prof

Personal Information

Name/Surname : Hulya ELBE
Date of birth : 1979
Nationality : Turkish
Gender : Female
Profession : Medical Doctor, Research Scientist, Histologist
Field of Specialization : Histology and Embryology, Cancer cells, Iconodiagnosis
Foreign Language : English (mid-grade)
ORCID No : 0000-0002-1254-0683

Education

1996-2002 : Medical Degree,
Ondokuz Mayıs University Faculty of Medicine, Samsun, TURKEY
2009-2012 : Residency in Histology and Embryology (**PhD equivalent**)
Inonu University Faculty of Medicine, Malatya, TURKEY
Department of Histology and Embryology

Rotational training programs

- Biochemistry, November, 2008; Inonu University Faculty of Medicine, Department of Biochemistry, Malatya, TURKEY
- Pathology, January, 2008; Inonu University Faculty of Medicine, Department of Pathology, Malatya, TURKEY

Experience

Laboratory (2009-2023)

- Organ/tissue dissection and preparation for light microscopic imaging
- Immunohistochemical technique
- Organ/tissue dissection and preparation for transmission electron microscopic imaging
- Western blotting
- Cell culture technique (especially cancer cell lines and cancer stem cells)

Lecturer (2012-2023)

- Inonu University Faculty of Medicine (2012-2014)
- Mugla Sitki Kocman University Faculty of Medicine (2014-2023)

Scientific Articles (in SCI-E and other indexes)

- Mehmet Gul, Basak Kayhan, **Hulya Elbe**, Zumrut Dogan, Ali Otlu. Histological and biochemical effects of dexmedetomidine on liver during an inflammatory bowel disease. *Ultrastruct Pathol.* 2015 Feb;39(1):6-12. DOI: 10.3109/01913123.2013.829150.
- **Hulya Elbe**, Nigar Vardi, Dogan Orman, Elif Taslidere, Azibe Yildiz. Ameliorative effects of aminoguanidine on rat aorta in streptozotocin-induced diabetes and evaluation of α -SMA expression. *Anatol J Cardiol* 2014;14(8):679-84. DOI:10.5152/akd.2014.5047.
- Elif Taslidere, Mukaddes Esrefoglu, **Hulya Elbe**, Asli Cetin, Burhan Ates. Protective effects of melatonin and quercetin on experimental lung injury induced by carbon tetrachloride in rats. *Exp Lung Res.* 2014;40(2):59-65. DOI:10.3109/01902148.2013.866181.
- **Hulya Elbe**, Nigar Vardi, Mukaddes Esrefoglu, Burhan Ates, Saim Yologlu, Cagatay Taskapan. Amelioration of streptozotocin-induced diabetic nephropathy by melatonin, quercetin and resveratrol in rats. *Hum Exp Toxicol.* 2015;34(1):100–113. DOI: 10.1177/0960327114531995.
- Mukaddes Esrefoglu, Aysin Akinci, **Hulya Elbe**, Elif Taslidere, Asli Cetin, Burhan Ates. Melatonin is effective in reducing stress-induced organ damage in Wistar albino rats. *Turk J Biol.* 2014;38:493-501. DOI: 10.3906/biy-1401-90.

- Sami Akbulut, **Hulya Elbe**, Cengiz Eris, Zumrut Dogan, Gulden Toprak, Emrah Otan, Erman Erdemli, Yusuf Turkoz. Cytoprotective effects of amifostine, ascorbic acid and N-acetylcysteine against methotrexate-induced hepatotoxicity in rats. *World J Gastroenterol*. 2014;20(29):10158-10165. DOI: 10.3748/wjg.v20.i29.10158.
- Sami Akbulut, **Hulya Elbe**, Cengiz Eris, Zumrut Dogan, Gulden Toprak, Erhan Yalcin, Emrah Otan, Yusuf Turkoz. Effects of antioxidant agents against cyclosporine-induced hepatotoxicity in rats. *Journal of Surgical Research*. 2015 Feb;193(2):658-66. DOI: 10.1016/j.jss.2014.08.042.
- Eyup Altinoz, Zulal Oner, **Hulya Elbe**, Nigar Vardi. Neuro-protective effects of crocin on brain and cerebellum tissues in diabetic rats. *Afr J Tradit Complement Altern Med*. 2014;11(6):33-39.
- **Hulya Elbe**, Mukaddes Esrefoglu, Nigar Vardi, Elif Taslidere, Elif Ozerol, Kevser Tanbek. Melatonin, quercetin and resveratrol attenuates oxidative hepatocellular injury in streptozotocin-induced diabetic rats. *Hum Exp Toxicol*. 2015;34(9):859–868. DOI: 10.1177/0960327114559993.
- Eyup Altinoz, Zulal Oner, **Hulya Elbe**, Yılmaz Cigremis, Yusuf Turkoz. Protective effects of saffron (its active constituent, crocin) on nephropathy in streptozotocin induced diabetic rats. *Hum Exp Toxicol*. 2015;34(2):127-134. DOI: 10.1177/0960327114538989.
- **Hulya Elbe**, Zumrut Dogan, Elif Taslidere, Aymelek Cetin, Yusuf Turkoz. Beneficial effects of quercetin on renal injury and oxidative stress caused by ciprofloxacin in rats: A histological and biochemical study. *Hum Exp Toxicol*. 2016;35(3):276-281. DOI: 10.1177/0960327115584686.
- Tuba Ozgocer, Sedat Yildiz, **Hulya Elbe**, Nigar Vardi. Endotoxin exposures and puberty in female rats: The roles of neonatal nitric oxide and caspase-1 inhibitions. *Can J Physiol Pharmacol*. 2015;93:1–12. DOI: 10.1139/cjpp-2014-0559.
- Dogan Orman, Nigar Vardi, Burhan Ates, Elif Taslidere, **Hulya Elbe**. Aminoguanidine mitigates apoptosis, testicular seminiferous tubules damage, and oxidative stress in streptozotocin-induced diabetic rats. *Tissue and Cell*. 2015;47:284–290. DOI: 10.1016/j.tice.2015.03.006.
- Eyup Altinoz, Tarık Ozmen, Zulal Oner, **Hulya Elbe**, Erman Erdemli, Harika Gözükarar Bag. Effect of crocin on oxidative stress in recovery from single bout of swimming exercise in rats. *Gen Physiol Biophys*. 2016;35:87–94. doi: 10.4149/gpb_20150182015.
- Elif Taslidere, Zumrut Dogan, **Hulya Elbe**, Nigar Vardi, Aymelek Cetin, Yusuf Turkoz. Quercetin protection against ciprofloxacin-induced liver damage in rats. *Biotech Histochem*. 2016;91(2):116-121. DOI: 10.3109/10520295.2015.1085093.
- Eyup Altinoz, Emre Taskin, Zulal Oner, **Hulya Elbe**, Belkis Atasever Arslan. The effect of saffron (its active constituent, crocin) on the cardiovascular complication and dyslipidemia in streptozotocin induced diabetic rats. *Afr J Tradit Complement Altern Med*. 2015;12(5):1-7.

- Elif Taslidere, Mehmet Gul, **Hulya Elbe**, Asli Cetin, Nigar Vardi, Fatma Ozyalin, Yusuf Turkoz. The effects of caffeic acid phenethyl ester on streptozotocin-induced diabetic liver injury. Bratislava Medical Journal. 2016;117(5):276–282. DOI: 10.4149/BLL_2016_054.
- Eyup Altinoz, Tarık Ozmen, Zulal Oner, **Hulya Elbe**, Erman Erdemli, Bag HG. Saffron (its active constituent, crocin) supplementation attenuates lipid peroxidation and protects against tissue injury. Bratislava Medical Journal. 2016;117(7):381–387. DOI: 10.4149/BLL_2016_075.
- Mukaddes Esrefoglu, Aysin Akinci, Elif Taslidere, **Hulya Elbe**, Asli Cetin, Burhan Ates. Ascorbic acid and beta-carotene reduce stress-induced oxidative organ damage in rats. Biotech Histochem. 2016;91(7):455-464. DOI: 10.1080/10520295.2016.1220019.
- Taylan Şahin, Zekine Begeç, **Hülya Elbe**, Nigar Vardı, Mahmut Durmuş, M. Ozcan Ersoy. Dexmedetomidine attenuates lung injury induced by liver ischemia reperfusion injury in rats. Biomedical Research. 2017;28(6):2452-2455.
- Mukaddes Esrefoglu, Asli Cetin, Elif Taslidere, **Hulya Elbe**, Burhan Ates, Olgu Enis Tok, Mehmet Serif Aydin. Therapeutic effects of melatonin and quercetin in improvement of hepatic steatosis in rats through suppression of oxidative damage. Bratislava Medical Journal. 2017;118(6):347-354. doi:10.4149/BLL_2017_066.
- Zumurut Dogan, **Hulya Elbe**, Elif Taslidere, Handan Soysal, Aymelek Cetin, Sezin Demirtas. Use of ciprofloxacin in pregnancy: Its effects in fetal rat liver tissue, and protective effects of quercetin. Biotech Histochem. 2017;24:1-6. DOI: 10.1080/10520295.2017.1356469.
- **Hulya Elbe**, Mehmet Gul, Asli Cetin, Elif Taslidere, Fatma Ozyalin, Yusuf Turkoz, Ali Otlu. Resveratrol reduces light and electron microscopic changes in acetaminophen-induced hepatotoxicity in rats: Role of iNOS expression. Ultrastruct Pathol. 2017 Dec 1:1-10. doi: 10.1080/01913123.2017.13743132017.
- Bugra Tutun, **Hulya Elbe**, Nigar Vardı, Hakan Parlakpınar, Alaadin Polat, Murat Günaltılı, Murat Muzaffer Güçlü, Ece Nur Yaşar. Dexpanthenol reduces diabetic nephropathy and renal oxidative stress in rats. Biotech Histochem. 2019 Feb;94(2):84-91. doi: 10.1080/10520295.2018.1508746.
- Zulal Oner, Ayup Altinoz, **Hulya Elbe**, Nihat Ekinci. The protective and therapeutic effects of linalool against doxorubicin-induced cardiotoxicity in Wistar albino rats. Hum Exp Toxicol. 2019 Apr 12:960327119842634. DOI: 10.1177/0960327119842634.
- Akbulut S, Dogan Z, Baskiran A, **Elbe H**, Turkoz Y. Effect of a honey and arginine-glutamine-hydroxymethylbutyrate mixture on the healing of colon anastomosis in rats immunosuppressed with tacrolimus. Biotech Histochem. 2019 Apr 15:1-8. doi: 10.1080/10520295.2019.1601257.

- Hilal Ermis, Hakan Parlakpınar, **Hulya Elbe**, Nigar Vardi, Alaaddin Polat, Gazi Gulbas. Effects of varenicline on lung tissue in the animal model. *J Bras Pneumol.* 2020;46(2):e20180406. doi: 10.36416/1806-3756/e20180406.
- **Elbe H**, Yigitturk G, Cavusoglu T, Uyanikgil Y, Ozturk F. Apoptotic effects of thymol, a novel monoterpene phenol, on different types of cancer. *Bratisl Lek Listy.* 2020;121(2):122-128. doi: 10.4149/BLL_2020_016.
- **Elbe H**, Yigitturk G, Cavusoglu T, Baygar T, Ozgul Onal M, Ozturk F. Comparison of ultrastructural changes and the anticarcinogenic effects of thymol and carvacrol on ovarian cancer cells: which is more effective? *Ultrastruct Pathol.* 2020 Mar 17:1-10. doi: 10.1080/01913123.2020.1740366.
- Nuray Bostancıeri, Aslı Taşlıdere, **Hulya Elbe**, Elif Taslıdere. Chemoprotective effects of quercetin against testis damage induced by cisplatin. *Biotechnic and Histochemistry.* (Accepted-25.06.2020)
- Eyup Altinoz, Zulal Oner, **Hulya Elbe**, Nuray Uremis, Muhammed Uremis. Linalool exhibits therapeutic and protective effects in a rat model of doxorubicin-induced kidney injury by modulating oxidative stress. *Drug Chem Toxicol.* 2021:1-7. doi: 10.1080/01480545.2021.1894751.
- Nuray Bostancıeri, Aslı Taşlıdere, **Hulya Elbe**, Elif Taslıdere. Protective effects of quercetin against testis damage caused by cisplatin. *Biotech Histochem.* 2022;97(3):180-184. doi: 10.1080/10520295.2021.1924405.
- Nuray Bostancıeri, **Hulya Elbe**, Mukaddes Esrefoglu, Nigar Vardi. Cardioprotective potential of melatonin, quercetin and resveratrol in an experimental model of diabetes. *Biotech Histochem.* 2022;97(2):152-157. doi: 10.1080/10520295.2021.1918766.
- Sara Asaad Abdulkareem Aljumaily, Mehmet Demir, **Hulya Elbe**, Gurkan Yigitturk, Yasemin Bicer, Eyup Altinoz. Antioxidant, anti-inflammatory and anti-apoptotic effects of crocin against doxorubicin-induced myocardial toxicity in rats. *Environ Sci Pollut Res Int.* 2021. doi: 10.1007/s11356-021-15409-w.
- Mehmet Demir, Eyup Altinoz, **Hulya Elbe**, Yasemin Bicer, Gurkan Yigitturk, Melike Karayakali, Arwa Fadıl Haqı Ballur. Effects of pinealectomy and crocin treatment on rats with isoproterenol-induced myocardial infarction. *Drug and Chemical Toxicology.* 2021:1-10. doi: 10.1080/01480545.2021.1977025.
- Rihab Mudhafar Ali Hammood Keelo, **Hulya Elbe**, Yasemin Bicer, Gurkan Yigitturk, Oguzhan Koca, Melike Karayakali, Derya Acar, Eyup Altinoz. Treatment with crocin suppresses diabetic nephropathy progression via modulating TGF- β 1 and oxidative stress in an experimental model of pinealectomized diabetic rats. *Chemico-Biological Interactions.* 2022;351:109733. doi: 10.1016/j.cbi.2021.109733.

- Deniz Genc, Merve Sezer Kurkcu, Gürkan Yigitturk, Burcu Günaydın, **Hulya Elbe**, Akın Aladag, Bekir Çöl, Emine Figen Tarhan. Synovial fluid niche promoted differentiation of dental follicle mesenchymal stem cells towards chondrogenesis in rheumatoid arthritis. *Arch Rheumatol* 2021;37(1):94-109. doi: 10.46497/ArchRheumatol.2022.8891.
- Arwa Fadıl Haqi Ballur, Eyup Altinoz, Gurkan Yigitturk, Melike Onal, **Hulya Elbe**, Yasemin Bicer, Melike Karayakalı. Influence of pinealectomy and long-term melatonin administration on inflammation and oxidative stress in experimental gouty arthritis. *Inflammation*. 2022;45(3):1332-1347. doi: 10.1007/s10753-022-01623-2.
- Gurkan Yigitturk, Melike Ozgul Onal, Ekin Subasi, Beyza Dogan, Melih Turkmenoğlu, Merve Kaplan, Volkan Yasar, **Hulya Elbe**, Feral Ozturk. Leptin accelerates endothelial wound healing: Role of eNOS. *Anatolian Journal of Cardiology*. 2022. doi: 10.5152/AnatolJCardiol.2022.1607.
- **Hulya Elbe**, Feral Ozturk, Gurkan Yigitturk, Tuba Baygar, Turker Cavusoglu. Anticancer activity of linalool: Comparative investigation of ultrastructural changes and apoptosis in breast cancer cells. *Ultrastructural Pathology*. 2022:1-11. doi: 10.1080/01913123.2022.2091068.
- Edip Guvenc Cekic, Gurkan Yigitturk, Melike Ozgul Onal, **Hulya Elbe**, Nesrin Filiz Basaran, Feral Ozturk. The effects of ranolazine on cobalt chloride-induced chemical hypoxia on endothelial cells. *Acta Poliniae Pharmaceutica – Drug Research* 2022;79(3):419-429. doi: 10.32383/appdr/152437.
- Yasemin Bicer, **Hulya Elbe**, Melike Karayakali, Gurkan Yigitturk, Umit Yilmaz, Osman Cengil, Mohammed Raed Abdullah Al Gburi, Eyup Altinoz. Neuroprotection by melatonin against acrylamide-induced brain damage in pinealectomized rats. *J Chem Neuroanat*. 2022;125:102143. doi: 10.1016/j.jchemneu.2022.
- **A42**. Mohammed Raed Abdullah Al Gburi, Eyup Altinoz, **Hulya Elbe**, Melike Ozgul Onal, Umit Yilmaz, Nesibe Yilmaz, Melike Karayakalia, Mehmet Demir. Pinealectomy and melatonin administration in rats: their effects on pulmonary edema induced by α -Naphthylthiourea. *Drug and Chemical Toxicology*. 2022. doi: 10.1080/01480545.2022.2119994.
- Dilan Cetinavci, Volkan Yasar, Anil Yucel, **Hulya Elbe**. Evaluation of the usage of youtube videos about histology and embryology as an educational material. *Anatomia, Histologia, Embryologia*. 2022. doi: 10.1111/ahe.12859.
- Melike Karayakali, Eyup Altinoz, **Hulya Elbe**, Oguzhan Koca, Melike Ozgul Onal, Yasemin Bicer, Mehmet Demir. Crocin treatment exerts anti-inflammatory and anti-oxidative effects in liver tissue damage of pinealectomized diabetic rats. *Environ Sci Pollut Res Int*. 2023. doi: 10.1007/s11356-023-25766-3.

- Ipek Ozturk, **Hulya Elbe**, Yasemin Bicer, Melike Karayakali, Melike Ozgul Onal, Eyup Altinoz. Therapeutic role of melatonin on acrylamide-induced hepatotoxicity in pinealectomized rats: Effects on oxidative stress, NF- κ B signaling pathway, and hepatocellular proliferation. *Food Chem Toxicol.* 2023;11:113658.
- Mehmet Demir, Eyup Altinoz, Oguzhan Koca, **Hulya Elbe**, Melike Ozgul Onal, Yasemin Bicer, Melike Karayakali. Antioxidant and anti-inflammatory potential of crocin on the doxorubicin mediated hepatotoxicity in Wistar rats. *Tissue and Cell.* 2023;84:102182.
- Burcu Gunaydin, Gurkan Yigitturk, **Hulya Elbe**. Cytotoxic effects of Phenformin on ovarian cancer cells: Expression of HIF-1 α and PDK1 in the hypoxic microenvironment. *Romanian Journal of Morphology and Embryology.* 2023.
- Eyup Altinoz, Zulal Oner, **Hulya Elbe**, Yusuf Turkoz, Yimaz Cigremis. Protective effect of saffron (its active constituent, crocin) on oxidative stress and hepatic injury in streptozotocin induced diabetic rats. *Gene Ther Mol Biol.* 2014;16:160-171.
- Nazile Erturk, **Hulya Elbe**, Mehmet Erman Erdemli, Serdar Aktas, Gurkan Yigitturk, Zeynep Aksungur, Alev Suzen, Feral Ozturk. The protective effects of resveratrol and sildenafil in a rat model of ischemia/reperfusion injury of the ovary. *Biomedical Research.* 2017;28(20):8973-8980.
- Nazile Erturk, **Hulya Elbe**, Zumurat Dogan, Serdar Aktas, Savas Demirbilek, Feral Ozturk. Curcumin prevents renal oxidative stress and tissue damage induced by renal ischemia/reperfusion in rats. *Int Surg J.* 2018 Oct;5(10):3192-3197.
- **Hulya Elbe**. Obesity and the Mother Goddess of Neolithic Çatalhöyük. *Hormones (Athens).* 2023;22(2):349-352. doi: 10.1007/s42000-023-00433-x.
- **Hulya Elbe**. Beyond Venus and Mars: Examining gender-related differences in facial aging through the analysis of artworks. *Ethics, Medicine and Public Health.* 2023;31:100958.
- **Hulya Elbe**. Halil Pasha's legacy as a Turkish painter: Esotropia or pseudoesotropia in "*Yaşlı Halayık*". *Strabismus.* 2023:1-7.