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PLACE AND DATE OF BIRTH: Kırklareli, 9 January 1953

ACADEMIC TITLE: Professor, 1997

EDUCATION:

PhD: Ankara University Faculty of Pharmacy, 1984

MSc: Ankara University Faculty of Pharmacy

BSc: Ankara University Faculty of Pharmacy, 1975

POST-DOC STUDIES:

January 1988 - December 1988

Finland Oulu University, Pharmacology and Toxicology Department

(FEBS Scholarship)

MEMBERSHIPS

Turkish Biochemical Society

Turkish Toxicology Society

ECZAKDER (Society of The Turkish Council for Acreditations of Pharmacy Programs)

ACADEMIC AND ADMINISTRATIVE DUTIES:

Associate Dean of Ankara University Faculty of Pharmacy: 2002-2008

Head of Ankara University Graduate School of Health Sciences- Clinical Pharmacy Department: 1999-2002

Administrative board member of Ankara University Faculty of Pharmacy: 1997-2002 Head of Ankara University Faculty of Pharmacy Biochemistry Department: 2013-

Selected publications:

ERDEN F, HACISALİHOĞLU A, KOCER Z, SIMSEK B, NEBİOĞLU S., Effects of vitamin C intake on whole blood plasma, leucocyte and urine ascorbic acid and oxalic acid levels, Acta Vitaminol Enzymol 7, 123-130, 1985.

ERDEN F, GULENC S, TORUN M, KOCER Z, SIMSEK B, NEBİOĞLU S, Ascorbic acid effect on some lipid fractions in human beings, Acta Vitaminol Enzymol, 7, 131-138, 1985.

KARAKAYA A, TUNCEL N, ALPTUNA G, KOCER Z, ERBAY G, Influence of cigarette smoking on thyroid hormone levels Human Toxicol, 6, 507-509, 1987.

ISCAN M, DOGRU B, KOCER Z, NEBİOĞLU S, Effects of ascorbic acid supplementation on liver, lung and kidney microsomal drug-metabolizing enzymes of the guinea- pig, Comp Biochem Physiol 87B, 575-580, 1987.

KOCER Z, RAUNIO H, PASANEN M, ARVELA P, RAISKILA T, HONKAKOSKI P, LANG MA, NEGISHI M, PELKONEN O, Comparison between cobalt and pyrasole in the increased expression of coumarin -7 hydroxilase in mouse liver, Biochem Pharmacol, 41(3), 462-465, 1991.

BURGAZ S, ISCAN A, KOCER-BUYUKBİNGOL Z, BOZKURT A, KARAKAYA AE, Evaluation of micronuclei in exfoliated urothelial cells and urinary thioeter excretion of smokers, Mutation Res, 335, 163-169, 1995.

YILDIRIM. Ö, BÜYÜKBİNGÖL Z., Effects of supplementation with a combination of cobalt and ascorbic acid on antioxidant enzymes and lipid peroxidation levels in streptozocin-diabetic rat liver, Biological Trace Elemet Res. 90(1-3), 143-154,2002.

YILDIRIM. Ö, BÜYÜKBİNGÖL Z., Effect of cobalt on the oxidative status in heart and aorta of streptozotocin-induced diabetic rats, Cell Biochem Funct, 21,27-33, 2003.

ÖRNEK. K, KAREL. F, BÜYÜKBİNGÖL. Z., May nitric oxide molecule have a role in the pathogenesis of human cataract?, Experimental Eye Research, 76, 23-27,2003.

YILDIRIM Ö, BUYUKBİNGOL Z., In vivo effect of vitamin C with cobalt on oxidative stress in experimental diabetic rat kidney, Diab. Nutr. Metab., 16(4), 208-213, 2003.

ATEŞ-ALAGÖZ Z, BUYUKBİNGOL Z, BUYUKBİNGOL E., Synthesis and antioxidant properties of some indole ethylamine derivatives as melatonin analogs, Pharmazie, 60(9), 643-647, 2005.

GURKAN AS, KARABAY AZ, BUYUKBİNGOL Z, ADEJARE A, BUYUKBİNGOL E., Synhesis of novel indole lipoic acid derivatives and their antioxidant effects on lipid peroxidation, Arch Pharm (Weinheim), 338(2-3):67-73, 2005.

GURKAN AS, KARABAY AZ, BUYUKBINGOL Z, BUYUKBINGOL, E, Synthesis and effects of some novel tetrahydronaphthalene derivatives on proliferation and nitric oxide production in lipopolysaccharide activated Raw 264.7 macrophages. Eur J Med Chem. 46(2):468-79, 2011.

KARABAY AZ, AKTAN F, SUNGUROĞLU A, BUYUKBINGOL Z., Methylsulphonylmetane modulates apoptosis of LPS/IFN-gamma-activated RAW264.7 macrophage like cells by targeting p53, Bax, Bcl-2, cytochrome c and PARP proteins. Immunopharmacol. Immunotoxicol. 36(6):379-389, 2014.

KARABAY AZ, KOC A, GURKAN -ALP AS, BUYUKBINGOL Z, BUYUKBINGOL E., Inhibitory effects of indole-alpha-lipoic acid derivatives on nitric oxide production in LPS/IFN-gamma-activated RAW 264.7 macrophages. Cell Biochem Func. 33(3) 121-127,2015.

Projects

Project Title	Supervisor/	Supported	Start
	Researcher	by	date/Finish
			Date
Effects of methylsulfonylmethane,	Supervisor	TUBİTAK	October
chondroitin sulfate and glucosamine on			2010-
apoptosis and iNOS gene methylation in			October 2011
LPS/IFN-γ induced RAW 264.7			
macrophage cell line			
Interaction of Beta-catenin, NF kappaB	Researcher	TUBITAK	October
and Akirin proteins and their roles in	Researcher	10211111	2011-
imatinib resistant Chronic Myeloid			October 2013
Leukemia			2010

Poster presentations at international congresses

EKİM M, MOR A, KOÇER-BÜYÜKBİNGÖL Z., Serum Free Carnitine and Lipid Levels in Pediatric Continuous Ambulatory Peritoneal Patients Undergoing Dialysis, ERA XXXV Congress of the Europian Renal Association Europian Dialysis and Transplant Association, Rimini Italy, p. 1528,June 6-9, 1998.

KOÇER-BÜYÜKBİNGÖL Z:, AYGEN B, EKİM M., Serum Vitamin E Levels in Children with Nephrotic Syndrome, ISP-98, III. International Congress of Pathophysiology, Abstract Book, p. 18 Lahti, Finland, 28 June- 3 July 1998.

YILDIRIM.Ö, BÜYÜKBİNGÖL Z., Alterations of nitric oxide with cobalt and ascorbic acid in streptozocin-induced diabetes mellitus, 7. International Symposium on Pharmaceutical Sciences, Ankara-Turkey, Ankara University Faculty of Pharmacy Proceedings and Abstracts, s.132, O-23, 24-27 June 2003.

ATEŞ-ALAGÖZ Z, BÜYÜKBİNGÖL Z., BÜYÜKBİNGÖL E., Synthesis some new indoles derivatives as melatonin analogues, 7. International Symposium on Pharmaceutical Sciences, Ankara-Turkey, Ankara University Faculty of Pharmacy Proceedings and Abstracts, s.295, P-161, 24-27 June 2003.

YILDIRIM Ö, BÜYÜKBİNGÖL Z., Combined Effects of Cobalt and Ascorbic Acid on Oxidative Stress Status in Streptosotocin-Diabetic Rat Kidney, 6. International Symposium on Pharmaceutical Sciences (ISOPS-6), Ankara, Turkey, p. 2425, June 27-29, 2000.

YILDIRIM Ö, BÜYÜKBİNGÖL Z., Cobalt Treatment: Effects on oxidative Stress in early satage of experimental diabetes. XV. National Biology Congress, Ankara Üniversity Faculty of Science, Department of Biology, Ankara, Abstract book p. 595, 9 September 2000.

YILDIRIM Ö, BÜYÜKBİNGÖL Z., Effects of Cobalt and Ascorbic Acid on Oxidative Stress Status in Experimental Diabetes, 4. Xenobiotic Metabolism and Toxicity Workshop of Balkan Countries, Abstracts, p.857, Antalya, Turkey, April 12-16, 2000.

- KARABAY A Z, BUYUKBİNGÖL Z., In vivo antioxidant effects of tryptophan in liver and kidney of experimental diabetic rats.,8. International Symposium on Pharmaceutical Sciences (ISOPS-8), Ankara, Turkey, Abstracts p. 124. June 13-16, 2006.
- KARABAY A Z, BUYUKBİNGÖL Z., Probable antioxidant effects of tryptophan in streptozotocin-diabetic rats., 31. FEBS Congress The FEBS Journal V.273, p.168, İstanbul, Turkey, 24-26 June 2006.
- OZDEN S, BUYUKBİNGOL Z, COSKUN M, NEBIOGLU S, SUZEN S., Evaluation of new trends in pharmacy education of Ankara University, Faculty of Pharmacy in EU Candidate Turkey, 2007 Annual Conference of Europian Association of Faculties of Pharmacy, Faculty of Pharmacy, Complutense de Madrid, Spain, Abstrats p.2, September 20-22, 2007.
- KARABAY A Z, OZKAN T, KOC A, BUYUKBINGOL Z, SUNGUROGLU A., Effects of MSM (methylsulfonylmethane) on SNP (sodium nitroprusside) and H2O2 (hydrogen peroxide) induced RAW 264.7 macrophages PLANTA MEDICA Volume: 75 Issue: 9 p. 911-911 Published: JUL 2009 55th International Congress and Annual Meeting of the Society-for-Medicinal-Plant-Research-and-Natural-Product-Research Geneva, SWITZERLAND, Aug 16-20, 2009.
- KOC A, KARABAY A Z, OZKAN T, KARADAG A, SUNGUROGLU A, AKTAN F, BUYUKBINGOL Z., Effect of L-Carnitine on NO production in lipopolysaccaride induced RAW 264.7 cells, IUBMB Life 61(3), p.267, 3. International Congress of Molecular Medicine, Istanbul, TURKEY, 5-8 May, 2009.
- KARABAY A Z, AKINCI A, OZKAN T, SUNGUROGLU A, AKTAN F, BUYUKBINGOL Z., Effect of methysulphonylmethane on proliferation and nitric oxide production in LPS activated RAW 264.7 cells, FEBS Journal V: 276 p. 316, 34. FEBS Congress, Prague, CR, July 04-09, 2009.
- KARABAY A Z, ÖZKAN T, KOÇ A, SUNGUROĞLU A, BÜYÜKBİNGÖL Z., Effect of Methyl Sulphonyl Methane on LPS/IFN-gamma induced RAW 264.7 macrophage apoptosis, FEBS Journal 277, p.57,35. FEBS Congress, Gothenburg, SWEDEN, June 26-July 01, 2010.
- KARABAY A Z, OZKAN T, KOC A, KARADAĞ A, ALTINOK B, BUYUKBİNGOL Z, SUNGUROGLU A., Effect of wnt3a or lithium chloride preconditioning on nitric oxide production in RAW264.7 macrophages and K562 leukemic cell line, FEBS Journal V: 277 p: 147-148 Suppl. 1 FEBS Congress, Gothenburg, SWEDEN, June 26-July 01 2010.
- OZKAN T, KOC A, KARABAY A Z, SUNGUROGLU A, BUYUKBINGOL Z, AKTAN F., Different expression pattern of akirin-2 in K562r and K562s cell lines, FEBS EMBO Conference Series: Intracellular RNA localization and localized translation, Barga, ITALY, August 7-12, 2011.
- KARABAY AZ, OZKAN T, KOC A, SUNGUROGLU A, AKTAN F, BUYUKBINGOL Z., Effects of carnosine on nitrite production in LPS-activated RAW264.7 macrophages, Barga, ITALY, August 7-12, 2011.

- BUYUKBINGOL Z, KARABAY AZ, OZKAN T, SUNGUROGLU A., Effect of methylsulphonylmethane on iNOS gene methylation in macrophages, 22nd IUBNB/37th FEBS Congress, Sevilla, SPAIN, 279, P27-125, 4-9 September 2012.
- KARABAY AZ, OZKAN T, KOC A, SUNGUROGLU A, BUYUKBINGOL Z., Effects of methylsulphonylmetane on viability of HCT-116 cell line, 22nd IUBNB/37th FEBS Congress, Sevilla, SPAIN, 279, P01-12, 4-9 September 2012.
- KOC A, OZKAN T, KARABAY AZ, SUNGUROGLU A, BUYUKBINGOL Z, AKTAN F., Interaction of NFkb and akirin proteins in imatinib resistant and sensitive K562 cell lines, Discussion of recent research and new technologies meeting, London, ENGLAND, 3 October 2013.
- KARABAY AZ, KOC A, OZKAN T, SUNGUROGLU A, BUYUKBINGOL Z, AKTAN F., Examination of common gene targets for beta-catenin and NFkb proteins in imatinib sensitive and resistant K562 cell lines, Discussion of recent research and new technologies meeting, London, ENGLAND, 3 October 2013.
- OZKAN T, KOC A, KARABAY AZ, AKTAN F, SUNGUROGLU A, BUYUKBINGOL Z., Effect of nilotinib on inflammatory markers in LPS/IFN-gamma-activated RAW264.7 macrophages. Discussion of recent research and new technologies meeting, London, ENGLAND, 3 October 2013.
- KOC A, KARABAY AZ, OZKAN T, ALTIOK B, BUYUKBINGOL Z, SUNGUROGLU A, AKTAN F., Differences between akirin protein levels in imatinib resistant and sensitive K562 cells, Molecular Life Sciences, Frankfurt, GERMANY, 3-6 October 2013.
- KARABAY AZ, KOC A, GURKAN-ALP AS, BUYUKBINGOL Z, BUYUKBINGOL E., Effects of indole- a-lipoic acid derivatives on nitric oxide production in LPS/IFN-gamma-activated RAW264.7macrophages, FEBS-EMBO Congress, Paris, FRANCE, August 31-September 4, 2014.
- KARABAY AZ, KOC A, GURKAN-ALP AS, BUYUKBINGOL Z, BUYUKBINGOL E., Effects of indole- a-lipoic acid derivatives on cell viability parameters in K562 leukemia cell lines, 11. International Symposium on Pharmaceutical Sciences, Abstract book p.43, Ankara, TURKEY, June 9-12, 2015.
- BUYUKBINGOL Z, KARABAY AZ., Effects of methylsulphonylmethane on viability of K562 cell line, Drug Discovery and Therapy World Congress, Boston USA, 22-25 July, 2015.