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Biography

Professor Dr. Alaattin ŞEN was born in the village of Ahmetler, Eşme district of Uşak in 1966. He received his B.S. degree in Biology from the Middle East Technical University (METU) in 1989, graduating as his class valedictorian. In the same year, he started his academic career as a research assistant and began his graduate education at METU.

He received his Master's degree in Biology in 1991 and Ph.D. in Biochemistry in 1997 from Graduate School of Natural Sciences at METU. His doctoral thesis was awarded as the thesis of the year by METU Mustafa Parlar Foundation. In the same year, he was also awarded by the 'Outstanding Young Scientist Award' of Turkish Academy of Sciences (TUBA). In 1997, he started to work as an Assistant Professor in the Department of Chemistry at Pamukkale University (PAU) and worked as a postdoctoral researcher for nine months at the Oregon State University in the United States under the support of the Postdoctoral Research Fellowship (TUBITAK NATO-B1).

After being Associate Professor in November 1999, he joined the Biology Department at PAU in 2000. He served as a guest lecturer at the Oregon State University in the United States for a year from 2001-2002 and became a Professor in February 2006. Between the years of 2005-2011, he served as an Executive Committee Member of the of the Basic Scientific Research Group of TÜBİTAK. Since January 2017, he has been serving as the Biological Hazards Commission Member of Food, Agriculture and Livestock Ministry, General Directorate of Food Control, and Risk Assessment Department. He has supervised many projects and thesis. He has been involved in numerous national and several international projects as principal investigator. He has published over 50 international scientific articles and 80 reports, in the indexed journals (SCI). He is the editor of the three chapters in the printed books. He is the chief editor of the Turkish Journal of Biology since March 2018 and the editorial board member of two other indexed international journals. He speaks English well. He is married and father of two children.

He has held senior management positions at Pamukkale Universities including the faculty dean. He is currently working in the Department of Molecular Biology & Genetics at the Faculty of Life and Natural Science at Abdullah Gül University,

Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biochemistry, Turkey 1991 - 1997

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biology, Turkey 1989 - 1991

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Biology, Turkey 1984 - 1989

Dissertations

Doctorate, Purification and characterization of cytochrome P4501A1 and cytochrome P450 reductase from feral leaping mullet (Liza saliens) liver, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biochemistry, 1997

Postgraduate, Effects of benzocaine, benzene, and benzo(a) pyrene on gilthead seabream (Sparus aurata; Sparidae) liver microsomal mixed function oxidase system, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biology, 1991

Research Areas

Biochemistry, Molecular Biology and Genetics

Published journal articles indexed by SCI, SSCI, and AHCI

I. Amelioration potential of synthetic oxime chemical cores against multiple sclerosis and Alzheimer's diseases: Evaluation in aspects of in silico and in vitro experiments

Yilmaz A., Koca M., Ercan S., Acar O. O., Boga M., Sen A., Kurt A. Journal of Molecular Structure, vol.1318, 2024 (SCI-Expanded)

II. Synthesis of nitrogen-containing oleanolic acid derivatives as carbonic anhydrase and acetylcholinesterase inhibitors

Şenol H., Çelik Turgut G., Şen A., Sağlamtaş R., Tuncay S., Gülçin I., Topçu G. MEDICINAL CHEMISTRY RESEARCH, vol.00, no.00, pp.1-11, 2023 (SCI-Expanded)

III. Role of AHR, NF-kB and CYP1A1 crosstalk with the X protein of Hepatitis B virus in hepatocellular carcinoma cells

Celik-Turgut G., Olmez N., Koc T., Ozgun-Acar O., SEMİZ A., DODURGA Y., Satiroglu-Tufan N. L., ŞEN A. GENE, vol.853, 2023 (SCI-Expanded)

- IV. Synthesis and Comprehensive in Vivo Activity Profiling of Olean-12-en-28-ol, 3β-Pentacosanoate in Experimental Autoimmune Encephalomyelitis: A Natural Remyelinating and Anti-Inflammatory Agent ŞENOL H., Ozgun-Acar O., DAĞ A., EKEN A., GÜNER H., Aykut Z. G., TOPÇU G., ŞEN A. Journal of Natural Products, vol.86, no.1, pp.103-118, 2023 (SCI-Expanded)
- V. Biochemical, pharmacological, and toxicological attributes of caper (Capparis ovata) flowering buds and berries pickles

Ozgun-Acar O., Celik-Turgut G., GÜNER H., Sezer S., ŞEN A. FOOD SCIENCE & NUTRITION, vol.10, no.12, pp.4189-4200, 2022 (SCI-Expanded)

VI. Evaluation of Anti-Alzheimer Activity of Synthetic Coumarins by Combination of in Vitro and in Silico Approaches

Erdoğan Orhan I., Şenol Deniz F. S., Salmas R. E., Irmak S., Acar O. O., Turgut G. C., Sen A., Zbancioc A., Luca S. V., Skiba A., et al.

CHEMISTRY & BIODIVERSITY, vol.19, 2022 (SCI-Expanded)

VII. Cerium Oxide Nanoparticles Biosynthesized Using Fresh Green Walnut Shell in Microwave Environment and their Anticancer Effect on Breast Cancer Cells

Sulak M., Turgut G. C., ŞEN A.

CHEMISTRY & BIODIVERSITY, vol.19, no.8, 2022 (SCI-Expanded)

VIII. Complementary medicines used in ulcerative colitis and unintended interactions with cytochrome P450-dependent drug-metabolizing enzymes

Şen A.

TURKISH JOURNAL OF MEDICAL SCIENCES, vol.52, no.5, pp.1425-1447, 2022 (SCI-Expanded)

IX. Suppression of inflammatory cytokines expression with bitter melon (Momordica charantia) in TNBS-instigated ulcerative colitis

SEMİZ A., Acar O. O., ÇETİN SORKUN H., SEMİZ G., ŞEN A.

JOURNAL OF TRANSLATIONAL INTERNAL MEDICINE, vol.8, no.3, pp.177-187, 2020 (SCI-Expanded)

X. Prophylactic and therapeutic roles of oleanolic acid and its derivatives in several diseases SEN A.

WORLD JOURNAL OF CLINICAL CASES, vol.8, no.10, pp.1767-1792, 2020 (SCI-Expanded)

XI. Triterpenoids and steroids isolated from Anatolian Capparis ovata and their activity on the expression of inflammatory cytokines

GAZİOĞLU I., Semen S., Acar O. O., KOLAK U., Sen A., TOPÇU G.

PHARMACEUTICAL BIOLOGY, vol.58, no.1, pp.925-931, 2020 (SCI-Expanded)

XII. Preface

Sen A.

TURKISH JOURNAL OF BIOLOGY, vol.44, no.3, 2020 (SCI-Expanded)

XIII. Synthesis and initial evaluation of efficacy of olean-12-en-28-ol, 3 beta-pentacosanoate for the symptomatic treatment of multiple sclerosis

ŞEN A., ŞENOL H., Acar O. O., Kale E., DAĞ A., TOPÇU G.

FEBS OPEN BIO, vol.9, pp.74, 2019 (SCI-Expanded)

XIV. Role of cytochrome P450 polymorphisms and functions in development of ulcerative colitis \$EN A., Stark H.

WORLD JOURNAL OF GASTROENTEROLOGY, vol.25, no.23, pp.2846-2862, 2019 (SCI-Expanded)

XV. EVALUATION OF IN VIVO EFFECTS OF VISCUM ALBUM L. AND ITS CONSTITUENT O-COUMARIC ACID ON BILE ACID SYNTHESIZING CYPS

Ege T., Ozkan A. M. G., Sen A., ADALI O.

FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, no.4, pp.2825-2834, 2019 (SCI-Expanded)

XVI. Natural diterpenoid alysine A isolated from Teucrium alyssifolium exerts antidiabetic effect via enhanced glucose uptake and suppressed glucose absorption

Sen A., Ayar B., Yilmaz A., Acar O. O., Turgut G. C., TOPÇU G.

TURKISH JOURNAL OF CHEMISTRY, vol.43, no.5, pp.1350-1372, 2019 (SCI-Expanded)

XVII. Alteration of drug pharmacokinetics with medicinal plant Viscum album L. by rendering major cytochrome P450 activities

Sen A., Celik-Turgut G., Gencler-Ozkan A. M. G., ADALI O.

FEBS OPEN BIO, vol.8, pp.229, 2018 (SCI-Expanded)

XVIII. Synthesis of novel acridine-sulfonamide hybrid compounds as acetylcholinesterase inhibitor for the treatment of alzheimer's disease

Ulus R., Esirden I., Aday B., Turgut G. C., Sen A., Kaya M.

MEDICINAL CHEMISTRY RESEARCH, vol.27, no.2, pp.634-641, 2018 (SCI-Expanded)

XIX. Synthesis and Functional Investigations of Computer Designed Novel Cladribine-Like Compounds for the Treatment of Multiple Sclerosis

Yavuz S., Cetin A., AKDEMİR A., Doyduk D., Disli A., Celik Turgut G., Sen A., Yildirir Y.

ARCHIV DER PHARMAZIE, vol.350, no.11, 2017 (SCI-Expanded)

XX. Computer design, synthesis, and bioactivity analyses of drugs like fingolimod used in the treatment of multiple sclerosis

Turgut G. C., Doyduk D., Yildirir Y., Yavuz S., AKDEMİR A., Disli A., Sen A.

BIOORGANIC & MEDICINAL CHEMISTRY, vol.25, no.2, pp.483-495, 2017 (SCI-Expanded)

XXI. In vivo examination of the effects of hydroxycinnamic acid on xenobiotic metabolizing and antioxidant enzymes

Semiz A., Celik-Turgut G., Karakurt S., Akca H., Arslan S., ADALI O., Sen A.

ARCHIVES OF BIOLOGICAL SCIENCES, vol.69, no.1, pp.103-110, 2017 (SCI-Expanded)

XXII. Modulatory role of GSTM1 null genotype on the frequency of micronuclei in pesticide-exposed agricultural workers

Tumer T. B., Savranoglu S., Atmaca P., Terzioglu G., Sen A., Arslan S.

TOXICOLOGY AND INDUSTRIAL HEALTH, vol.32, no.12, pp.1942-1951, 2016 (SCI-Expanded)

XXIII. The isolation of tetrangomycin from terrestrial Streptomyces sp CAH29: evaluation of antioxidant, anticancer, and anti-MRSA activity

Ozakin S., Davis R. W., Umile T. P., Pirinccioglu N., Kizil M., Celik G., Sen A., Minbiole K. P. C., Ince E.

MEDICINAL CHEMISTRY RESEARCH, vol.25, no.12, pp.2872-2881, 2016 (SCI-Expanded)

XXIV. Capparis ovata treatment suppresses inflammatory cytokine expression and ameliorates experimental allergic encephalomyelitis model of multiple sclerosis in C57BL/6 mice Ozgun-Acar O., Celik-Turgut G., GAZİOĞLU I., KOLAK U., Ozbal S., Ergur B. U., Arslan S., Sen A., TOPÇU G. JOURNAL OF NEUROIMMUNOLOGY, vol.298, pp.106-116, 2016 (SCI-Expanded)

XXV. Inhibitory action of Epilobium hirsutum extract and its constituent ellagic acid on drug-metabolizing enzymes

Celik G., Semiz A., Karakurt S., Gencler-Ozkan A. M., Arslan S., ADALI O., Sen A.

EUROPEAN JOURNAL OF DRUG METABOLISM AND PHARMACOKINETICS, vol.41, no.2, pp.109-116, 2016 (SCI-Expanded)

XXVI. Association between herbivore stress and glutathione S-transferase expression in Pinus brutia Ten. Semiz A., Celik-Turgut G., Semiz G., Ozgun O., Sen A.

CELLULAR AND MOLECULAR BIOLOGY, vol.62, no.3, pp.89-94, 2016 (SCI-Expanded)

XXVII. Contribution of ellagic acid on the antioxidant potential of medicinal plant Epilobium hirsutum Karakurt S., Semiz A., Celik G., Gencler-Ozkan A. M., Sen A., ADALI O.

NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL, vol.68, no.1, pp.173-183, 2016 (SCI-Expanded)

XXVIII. Investigation of Chironomidae (Diptera) relationships using mitochondrial COI gene Sari A., Duran M., Sen A., Bardakci F.

BIOCHEMICAL SYSTEMATICS AND ECOLOGY, vol.59, pp.229-238, 2015 (SCI-Expanded)

XXIX. Cloning and expression of a CYP720B orthologue involved in the biosynthesis of diterpene resin acids in Pinus brutia

Semiz A., Sen A.

MOLECULAR BIOLOGY REPORTS, vol.42, no.3, pp.737-744, 2015 (SCI-Expanded)

XXX. Modulatory actions of o-coumaric acid on carcinogen-activating cytochrome P450 isozymes and the potential for drug interactions in human hepatocarcinoma cells

Sen A., Terzioglu G., Atmaca P., Celik G., Ozgun O., Arslan S.

PHARMACEUTICAL BIOLOGY, vol.53, no.9, pp.1391-1398, 2015 (SCI-Expanded)

XXXI. Anticarcinogenic Effect and Carcinogenic Potential of the Dietary Phenolic Acid: o-Coumaric Acid Sen A., Atmaca P., Terzioglu G., Arslan S.

NATURAL PRODUCT COMMUNICATIONS, vol.8, no.9, pp.1269-1274, 2013 (SCI-Expanded)

XXXII. Epilobium hirsutum alters xenobiotic metabolizing CYP1A1, CYP2E1, NQO1 and GPx activities, mRNA and protein levels in rats

Karakurt S., Semiz A., Celik G., Gencler-Ozkan A. M., Sen A., ADALI O.

PHARMACEUTICAL BIOLOGY, vol.51, no.5, pp.650-658, 2013 (SCI-Expanded)

XXXIII. Association of the CYP1A1*2A, GSTT1 null, GSTM1 null, mEPHX*3, and XRCC1-399 genetic

polymorphisms with ulcerative colitis

Buyukgoze O., Osmanoglu N., Arslan S., Sen A.

INTERNATIONAL JOURNAL OF COLORECTAL DISEASE, vol.28, no.4, pp.593-595, 2013 (SCI-Expanded)

XXXIV. Investigation of aromotase inhibition by several dietary vegetables in human non-small cell lung cancer cell lines

Celik G., Akca H., Sen A.

TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.38, no.2, pp.207-217, 2013 (SCI-Expanded)

XXXV. A Comparative Study for the Evaluation of Two Doses of Ellagic Acid on Hepatic Drug Metabolizing and Antioxidant Enzymes in the Rat

Celik G., Semiz A., Karakurt S., Arslan S., ADALI O., Sen A.

BIOMED RESEARCH INTERNATIONAL, vol.2013, 2013 (SCI-Expanded)

XXXVI. Assessment of the Sediment Toxicity in Bulgarian and Turkish Rivers Using the Biomarkers in Chironomus riparius Mg. (Diptera: Chironomidae)

Duran M., Michailova P., Sari A., Ilkova J., Sen A., Karadurmus E.

ACTA ZOOLOGICA BULGARICA, pp.167-173, 2012 (SCI-Expanded)

XXXVII. Alteration of drug metabolizing enzymes in sulphite oxidase deficiency

Tutuncu B., Kucukatay V., Arslan S., Sahin B., Semiz A., Sen A.

JOURNAL OF CLINICAL BIOCHEMISTRY AND NUTRITION, vol.51, no.1, pp.50-54, 2012 (SCI-Expanded)

XXXVIII. Diverse action of acrylamide on cytochrome P450 and glutathione S-transferase isozyme activities, mRNA levels and protein levels in human hepatocarcinoma cells

Sen A., Ozgun O., Arinc E., Arslan S.

CELL BIOLOGY AND TOXICOLOGY, vol.28, no.3, pp.175-186, 2012 (SCI-Expanded)

XXXIX. Structural and functional alterations in salivary gland chromosomes and enzyme activity of Chironomus riparius Mg. (Diptera, Chironomidae) from anthropogenically polluted sites in Bulgaria and Turkey

Michailova P., Ilkova J., Duran M., Karadurmus E., Berber R., Sen A.

CARYOLOGIA, vol.65, no.2, pp.157-169, 2012 (SCI-Expanded)

XL. EROD and metallothionein in Limnodrilus profundicola (Oligochaeta: Tubificidae) as an indicator of pollution exposure in the Curuksu stream of Menderes river, Denizli-Turkey

Ozdemir A., Duran M., Akyildiz G. K., Sen A.

DESALINATION AND WATER TREATMENT, vol.26, pp.98-103, 2011 (SCI-Expanded)

XLI. Polycyclic Aromatic Hydrocarbons in Water from the Menderes River, Turkey

Ardag H., Ozel M. Z., Sen A.

BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.86, no.2, pp.221-225, 2011 (SCI-Expanded)

XLII. Potential Use of the Oligochaete Limnodrilus profundicola V., as a Bioindicator of Contaminant Exposure

Ozdemir A., Duran M., Sen A.

ENVIRONMENTAL TOXICOLOGY, vol.26, no.1, pp.37-44, 2011 (SCI-Expanded)

XLIII. EFFECTS OF CYCLAMEN TROCHOPTERANTHUM ON HEPATIC DRUG-METABOLIZING ENZYMES

Arslan S., Ozgun O., Celik G., Semiz A., Dusen O., Mammadov R., Sen A.

ARCHIVES OF BIOLOGICAL SCIENCES, vol.63, no.3, pp.545-555, 2011 (SCI-Expanded)

XLIV. Determination of 7-ethoxyresorufin-o-deethylase (EROD) induction in leaping mullet (Liza saliens) from the highly contaminated Aliaga Bay, Turkey

Sen A., Ulutas O. K., Tutuncu B., Ertas N., Cok I.

ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.165, pp.87-96, 2010 (SCI-Expanded)

XLV. Characterization of drug metabolizing enzymes and assessment of aging in the gilthead seabream (Sparus aurata) liver

Akdogan H. A., Sen A.

VETERINARNI MEDICINA, vol.55, no.9, pp.463-471, 2010 (SCI-Expanded)

XLVI. Drug Interaction Potential of the Seed Extract of Urtica urens L. (Dwarf Nettle)

Agus H. H., Tekin P., Bayav M., Semiz A., Sen A.

PHYTOTHERAPY RESEARCH, vol.23, no.12, pp.1763-1770, 2009 (SCI-Expanded)

XLVII. ENVIRONMENTAL AND DIETARY FACTORS ON CANCER WITH REGARD TO CYP450

Sen A.

IUBMB LIFE, vol.61, no.3, pp.295-296, 2009 (SCI-Expanded)

XLVIII. In vivo effects of Urtica urens (dwarf nettle) on the expression of CYP1A in control and 3-methylcholanthrene-exposed rats

Ozkarsli M., Sevim H., Sen A.

XENOBIOTICA, vol.38, no.1, pp.48-61, 2008 (SCI-Expanded)

XLIX. Effects of metals and detergents on biotransformation and detoxification enzymes of leaping mullet (Liza saliens)

Sen A., Semiz A.

ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, vol.68, no.3, pp.405-411, 2007 (SCI-Expanded)

L. Determination of heavy metals and EROD induction in mullet from highly contaminated Aliaga Bay, Izmir, Turkey

Ulutas O. K., Ertas N., Sen A., Tutuncu B., Cok I.

TOXICOLOGY LETTERS, vol.172, 2007 (SCI-Expanded)

LI. Antioxidant and chemoprotective properties of Momordica charantia L. (bitter melon) fruit extract Semiz A., Sen A.

AFRICAN JOURNAL OF BIOTECHNOLOGY, vol.6, no.3, pp.273-277, 2007 (SCI-Expanded)

LII. Biochemical characterization and distribution of glutathione S-transferases in leaping mullet (Liza saliens)

Sen A., Kirikbakan A.

Biokhimiya, vol.69, no.9, pp.1223-1232, 2004 (SCI-Expanded)

LIII. cDNA-directed expression of a functional zebrafish CYP1A in yeast

Chung W., Sen A., Wang-Buhler J., Yang Y., Lopez N., Merrill G., Miranda C., Hu C., Buhler D.

AQUATIC TOXICOLOGY, vol.70, no.2, pp.111-121, 2004 (SCI-Expanded)

LIV. Biochemical characterization and distribution of glutathione S-transferases in leaping mullet (Liza saliens)

Sen A., Kirikbakan A.

BIOCHEMISTRY-MOSCOW, vol.69, no.9, pp.993-1000, 2004 (SCI-Expanded)

LV. Liquid-liquid extraction of transition metal cations by nine new azo derivatives calix[n]arene Akdogan A., Deniz M., Cebecioglu S., Sen A., Deligoz H.

SEPARATION SCIENCE AND TECHNOLOGY, vol.37, no.4, pp.973-980, 2002 (SCI-Expanded)

LVI. Immunohistochemical localization and differential expression of cytochrome P450 3A27 in the gastrointestinal tract of rainbow trout

Lee S., Hedstrom O., Fischer K., Wang-Buhler J., Sen A., Cok I., Buhler D.

TOXICOLOGY AND APPLIED PHARMACOLOGY, vol.177, no.2, pp.94-102, 2001 (SCI-Expanded)

LVII. Cloning, sequencing, and characterization of CYP1A1 cDNA from leaping mullet (Liza saliens) liver and implications for the potential functions of its conserved amino acids

Sen A., Hu C., Urbach E., Wang-Buhler J., Yang Y., Arinc E., Buhler D.

JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.15, no.5, pp.243-255, 2001 (SCI-Expanded)

LVIII. Further immunochemical and biocatalytic characterization of CYP1A1 from feral leaping mullet liver (Liza saliens) microsomes

Sen A., Arinc E.

COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C-TOXICOLOGY & PHARMACOLOGY, vol.126, no.3, pp.235-244, 2000 (SCI-Expanded)

LIX. Cytochrome P4501A and associated mixed-function oxidase induction in fish as a biomarker for toxic carcinogenic pollutants in the aquatic environment

Arinc E., Sen A., Bozcaarmutlu A.

PURE AND APPLIED CHEMISTRY, vol.72, no.6, pp.985-994, 2000 (SCI-Expanded)

LX. Hepatic cytochrome P4501A and 7-ethoxyrcsorufin O-deethylase induction in mullet and common sole as an indicator of toxic organic pollution in Izmir Bay, Turkey

Arinc E., Sen A.

MARINE ENVIRONMENTAL RESEARCH, vol.48, no.2, pp.147-160, 1999 (SCI-Expanded)

LXI. Preparation of highly purified cytochrome P4501A1 from leaping mullet (Liza saliens) liver microsomes and its biocatalytic, molecular and immunochemical properties

Sen A., Arinc E.

COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C-TOXICOLOGY & PHARMACOLOGY, vol.121, pp.249-265, 1998 (SCI-Expanded)

LXII. Purification and Characterization of Cytochrome P450 Reductase from Liver Microsomes of Feral Leaping Mullet (Liza saliens)

Sen A., Arinc E.

JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.12, no.2, pp.103-113, 1998 (SCI-Expanded)

LXIII. Separation of three P450 isozymes from liver microsomes of gilthead seabream treated with D-NF and partial purification of cytochrome P4501A1

Sen A., Arinc E.

BIOCHEMISTRY AND MOLECULAR BIOLOGY INTERNATIONAL, vol.41, no.1, pp.131-141, 1997 (SCI-Expanded)

LXIV. Separation of three P450 isozymes from liver microsomes of gilthead seabream treated with β -NF and partial purification of cytochrome P4501A1

Şen A., Arinç E.

Biochemistry and Molecular Biology International, vol.41, no.1, pp.131-141, 1997 (SCI-Expanded)

LXV. Tissue- and species-dependent expression of sheep lung microsomal cytochrome p4502B(LgM2)

Arinc E., Hanukoglu I., Sen A., ADALI O.

BIOCHEMISTRY AND MOLECULAR BIOLOGY INTERNATIONAL, vol.37, no.6, pp.1121-1126, 1995 (SCI-Expanded)

LXVI. EFFECTS OF IN-VIVO BENZO(A) PYRENE TREATMENT ON LIVER MICROSOMAL MIXED-FUNCTION OXIDASE ACTIVITIES OF GILTHEAD SEABREAM (SPARUS-AURATA)

ARINC E., SEN A.

COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C-PHARMACOLOGY TOXICOLOGY & ENDOCRINOLOGY, vol.107, no.3, pp.405-414, 1994 (SCI-Expanded)

LXVII. IN-VIVO EFFECTS OF THE ANESTHETIC, BENZOCAINE, ON LIVER MICROSOMAL CYTOCHROME-P450 AND MIXED-FUNCTION OXIDASE ACTIVITIES OF GILTHEAD SEABREAM (SPARUS-AURATA) ARINC E., SEN A.

COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C-PHARMACOLOGY TOXICOLOGY & ENDOCRINOLOGY, vol.107, no.3, pp.399-404, 1994 (SCI-Expanded)

LXVIII. CHARACTERIZATION OF CYTOCHROME-P450 DEPENDENT MIXED-FUNCTION OXIDASE SYSTEM OF GILTHEAD SEABREAM (SPARUS-AURATA, SPARIDAE) LIVER

ARINC E., SEN A.

COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY B-BIOCHEMISTRY & MOLECULAR BIOLOGY, vol.104, no.1, pp.133-139, 1993 (SCI-Expanded)

LXIX. EFFECTS OF INVIVO BENZENE TREATMENT ON CYTOCHROME-P450 AND MIXED-FUNCTION OXIDASE ACTIVITIES OF GILTHEAD SEABREAM (SPARUS-AURATA) LIVER-MICROSOMES

ARINC E., SEN A.

COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C-TOXICOLOGY & PHARMACOLOGY, vol.104, no.1, pp.61-65, 1993 (SCI-Expanded)

Articles Published in Other Journals

I. Apatinib sensitizes human breast cancer cells against navitoclax and venetoclax despite up-regulated bcl-2 and mcl-1 gene expressions

Kavakcioglu Yardimci B., Ozgun Acar O., SEMİZ A., ŞEN A.

Turk Onkoloji Dergisi, vol.36, no.1, pp.8-16, 2021 (ESCI)

II. Effects of folk medicinal plant epilobium hirsutum l. And its ingredient ellagic acid on rat liver bile acid synthesizing cyps in rats

Ege T., Gençler-özkan A., Şen A., ADALI O.

Pharmacologyonline, vol.3, pp.200-215, 2018 (Scopus)

III. A potential therapeutic role in multiple sclerosis for stigmast-5,22-dien-3 beta-ol myristate isolated from Capparis ovata

Acar O. O., GAZİOĞLU I., KOLAK U., Sen A., TOPÇU G.

EUROBIOTECH JOURNAL, vol.1, no.3, pp.241-246, 2017 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. Investigating multitargeting effect of fingolimod/ciproxifan butterfly derivatives for multiple sclerosis on brain organoids

Acar B., Stark H., Şen A.

FEBS, Tours, France, 8 - 12 July 2023, vol.13, no.2, pp.193

II. Opposite effects of even and odd-numbered long chain fatty acids on expression of myelination related genes in human oligodendroglioma cells genes in human oligodendroglioma cells

Aktaş Pepe N., Dilbaz I. S., Metin E., Acar B., Şen A.

European Biotechnology Congress 2021, 23 - 25 September 2021, vol.5, pp.58

III. Optimization of myelination on human cerebral organoids for studying multiple sclerosis (MS)

Acar B., Aktaş Pepe N., Şen A.

European Biotechnology Congress 2021, 23 - 25 September 2021, vol.5, pp.58

IV. Tetrangomycin from Streptomyces stramineus CAH29 and its antimicrobial and cytotoxic activities Ozakin S., Sen A., Ince E.

European Biotechnology Congress, Athens, Greece, 26 - 28 April 2018, vol.280

V. Stigmast-5,22-dien-3 beta-ol myristate isolated from Capparis ovata having anti-inflammatory and immunomodulatory actions could be of interest for use in multiple sclerosis

Sen A., Acar O. O., GAZİOĞLU I., KOLAK U., TOPÇU G.

European Biotechnology Congress, Dubrovnik, Croatia, 25 - 27 May 2017, vol.256

VI. Initial screening the anti-cancer effect of Vitexagnus castus in neuroblastoma cell lines

Bozagac N., Turgut G. C., Semiz G., Semiz A., Sen A.

41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.255

VII. In vitro investigaton of anti-cancer effect of Pinus nigra Arnold subsp pallasiana (Lamb.) Holmboe essential oil in neuroblastoma cells (SH-SY5Y)

Semiz A., Celik-Turgut G., Semiz G., Kale E., Sen A.

41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.257

VIII. Neuroprotective and immunomodulatory effects of Urtica urens

Arslan S., Terzioglu G., Kabalay B., Tufekci A. R., Sen A., Demirtas I.

41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.296

IX. A promising novel antidiabetic compound: Alysine-A

Sen A., Ayar B., TOPÇU G., Yilmaz A.

41st Congress of the Federation-of-European-Biochemical-Societies (FEBS) on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.97-98

X. Beneficial actions of dichloromethane sub-fraction of the COWE extract for multiple sclerosis: a potential therapeutic role

Acar O. O., Sen A., TOPÇU G., GAZİOĞLU I., KOLAK U., Arslan S.

41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.358

XI. F3-A13 h, novel fingolimod derivative, activates cAMP-dependent signalling pathway in SK-N-SH cell line

Turgut G. C., Sen A., Doyduk D., Yildirir Y.

41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.268

XII. Evaluation of anti-diabetic potential of circiliol and circilineol using CACO2 cell line

Ayar B., Sen A., TOPÇU G., Yilmaz A.

41st Congress of the Federation-of-European-Biochemical-Societies (FEBS) on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.377

XIII. Capparis ovate ameliorates experimental allergic encephalomyelitis model of multiple sclerosis in C57BL/6 mice

Ozgun O., Turgut G. C., GAZİOĞLU I., Kolat U., Ozbal S., Ergur B. U., Arslan S., TOPÇU G., Sen A.

31st Congress of the European-Committee-for-Treatment-and-Research-in-Multiple-Sclerosis (ECTRIMS),

Barcelona, Spain, 7 - 10 October 2015, vol.21, pp.671-672

XIV. Anti-neuroinflammatory effect of butanolic subextract of Capparis ovata water extract used as an alternative and complementary treatment for multiple sclerosis

Sen A., TOPÇU G., Ozgun O., KOLAK U., Hacibekiroglu I., Celik G., Arslan S.

12th International Congress of Neuroimmunology (ISNI), Mainz, Germany, 9 - 13 November 2014, vol.275, pp.172-173

XV. Assessing of anti-inflammatory effect of Small nettle' (Urtica urens) increasing polarity extracts Arslan S., Terzioglu G., Elcil S., Deligoz H., Sen A.

12th International Congress of Neuroimmunology (ISNI), Mainz, Germany, 9 - 13 November 2014, vol.275, pp.135

XVI. Toxicogenomic analysis of Capparis ovata water extract (MSCov)

Celik G., Ozgun O., Arslan S., Sen A.

FEBS EMBO 2014 Conference, Paris, France, 30 August - 04 September 2014, vol.281, pp.184

XVII. Capparis ovata water extract (MSCov) for the potential treatment of multiple sclerosis without drug interaction: molecular evidences

Ozgun O., Celik G., Arslan S., Sen A.

FEBS EMBO 2014 Conference, Paris, France, 30 August - 04 September 2014, vol.281, pp.104-105

XVIII. Modulation of protein and mRNA expressions of rat liver vitamin D3 metabolizing CYP27B1 by ocoumaric acid

ADALI O., Sever M., Karakurt S., Sen A.

38th Congress of the Federation-of-European-Biochemical-Societies (FEBS), Saint Peter, Guernsey And Alderney, 6 - 11 July 2013, vol.280, pp.174-175

XIX. Cloning and expression of CYP720B from Pinus brutia involved in the biosynthesis of diterpene resin acids

Semiz A., Sen A.

European Biotechnology Congress, Bratislava, Slovakia, 16 - 18 May 2013, vol.24

XX. Antiproliferative and anticarcinogenic effects of an aqueous preparation of Urtica urens in human hepatocarcinoma HepG2 cells

Sen A., Arslan S.

38th Congress of the Federation-of-European-Biochemical-Societies (FEBS), Saint Peter, Guernsey And Alderney, 6 - 11 July 2013, vol.280, pp.214-215

XXI. In vivo effect of epilobium hirsutum on xenobiotic metabolising CYP2E1, CYP1A1, glutathione peroxidase and NAD(P)H:quinone oxidoreductase 1 enzymes in rat liver

Karakurt S., Semiz A., Celik G., Gencler-Ozkan A. M., Sen A., ADALI O.

22nd IUBMB Congress/37th FEBS Congress, Sevilla, Spain, 4 - 09 September 2012, vol.279, pp.90

XXII. The effects of folk medicinal plant viscum album l. On protein and mRNA expressions of CYP27A1 in rat liver

Culcu T., Gencler-Ozkan A. M., Sen A., ADALI O.

22nd IUBMB Congress/37th FEBS Congress, Sevilla, Spain, 4 - 09 September 2012, vol.279, pp.97

XXIII. Cloning, expression, purification and characterization of Bacillus licheniformis catalase from Pamukkale Hot Springs

Sen A., Ozkarsli M., Dogan N. M., Semiz A., Arslan S.

European Biotechnology Congress, İstanbul, Turkey, 28 September - 01 October 2011, vol.22

XXIV. Diverse action of 5-aminosalicyclic acid on cytochrome P450 expression in human cervical cancer cell line

Yasar I., Ozyurt R., Todurga Z. G., Celik G., Arslan S., Sen A.

36th FEBS Congress of the Biochemistry for Tomorrows Medicine, Torino, Italy, 25 - 30 June 2011, vol.278, pp.239-240

XXV. Differential effects of cyclamen extract on p450 gene expression in human hepatocarcinoma hepg2 cells

Ozgun O., Arslan S., Sen A.

36th FEBS Congress of the Biochemistry for Tomorrows Medicine, Torino, Italy, 25 - 30 June 2011, vol.278, pp.225

XXVI. Bee venom induced apoptosis in human hepatocarcinoma HEPG2 cells

Terzioglu G., Gul O. A., Atmaca P., Cetin S., Ozgun O., Arslan S., Sen A.

36th FEBS Congress of the Biochemistry for Tomorrows Medicine, Torino, Italy, 25 - 30 June 2011, vol.278, pp.234-235

XXVII. Anti-cancer effect of bee venom in cervical cancer cells

Urhan R., Terzioglu G., Gul O. A., Atmaca P., Ozgun O., Cetin S., Arslan S., Sen A.

36th FEBS Congress of the Biochemistry for Tomorrows Medicine, Torino, Italy, 25 - 30 June 2011, vol.278, pp.230

XXVIII. Modulations of drug metabolizing enzymes by in vivo treatment of epilobium hirsutum extract in rat Ozyurt R., Semiz A., Celik G., Karakurt S., Arslan S., Gencler-Ozkan A. M., ADALI O., Sen A.

36th FEBS Congress of the Biochemistry for Tomorrows Medicine, Torino, Italy, 25 - 30 June 2011, vol.278, pp.225-226

XXIX. Antioxidant capacity of epilobium hirsutum in rats

Todurga Z. G., ADALI O., Celik G., Karakurt A. S. S., Sen A.

36th FEBS Congress of the Biochemistry for Tomorrows Medicine, Torino, Italy, 25 - 30 June 2011, vol.278, pp.235

XXX. Antioxidant and drug conjugation potential of cyclamen trochopteranthum

Aynaci H. K., Gonen E., Dogan F., Ozkarsli M., Arslan S., Sen A.

36th FEBS Congress of the Biochemistry for Tomorrows Medicine, Torino, Italy, 25 - 30 June 2011, vol.278, pp.196

XXXI. In vivo effects of epilobium hirsutum extract on different glutathione transferase isozymes

Semiz A., Celik G., Karakurt S., Arslan S., Gencler-Ozkan A. M., ADALI O., Sen A.

36th FEBS Congress of the Biochemistry for Tomorrows Medicine, Torino, Italy, 25 - 30 June 2011, vol.278, pp.233

XXXII. Effect of ellagic acid on p53 and PTEN in various cell lines

Gul O. A., Celik G., Akca H., ADALI O., Sen A.

36th FEBS Congress of the Biochemistry for Tomorrows Medicine, Torino, Italy, 25 - 30 June 2011, vol.278, pp.209

XXXIII. Effects of ellagic acid on CYP2E1, CYP1A1, CYP1A2, NQ01 and GSTMu enzymes in rat

Sen A., Celik G., Semiz A., Karakurt S., ADALI O.

36th FEBS Congress of the Biochemistry for Tomorrows Medicine, Torino, Italy, 25 - 30 June 2011, vol.278, pp.241

XXXIV. Modulatory effects of cyclamen trochopteranthum on drug and carcinogen metabolism in heLa cells Arslan S., Ozgun O., Sen A.

36th FEBS Congress of the Biochemistry for Tomorrows Medicine, Torino, Italy, 25 - 30 June 2011, vol.278, pp.194-195

XXXV. Dietary Aromatase Inhibitors in Human Non-Small Cell Lung Cancer

Sen A., Akca H., Celik G.

9th International Meeting of the International-Society-for-the-Study-of-Xenobiotics(ISSX), İstanbul, Turkey, 4 - 08 September 2010, vol.42, pp.171

XXXVI. Differential Effects of Cyclamen Extract on P450 Gene Expression

Arslan S., Ozgun O., Sen A.

9th International Meeting of the International-Society-for-the-Study-of-Xenobiotics(ISSX), İstanbul, Turkey, 4 - 08 September 2010, vol.42, pp.177-178

XXXVII. Possible implications of Cyclamen trochopterantum on human therapeutics

Kapdag M., Arslan S., Ozgun O., Oztas M., Ural M., Dusen O., Sen A.

34th Congress of the Federation-of-European-Biochemical-Societies, Prague, Czech Republic, 4 - 09 July 2009, vol.276, pp.315

XXXVIII. Cyclamen as an ethnomedicine: is it safe?

Ozgun O., Arslan S., Semiz A., Kapdag M., Oztas M., Mammadov R., Sen A.

34th Congress of the Federation-of-European-Biochemical-Societies, Prague, Czech Republic, 4 - 09 July 2009, vol.276, pp.333

XXXIX. Genetic polymorphisms of biotransformation enzymes CYP1A1, P4502A6 and microsomal epoxide hydrolase

Ozkarsli M., Buyukgoze O., Sabah S., Osmanoglu N., Sen A.

Joint Conference of the 33rd FEBS Congress/11th IUBMB Conference, Athens, Greece, 28 June - 03 July 2008, vol.275, pp.110

XL. Genetic polymorphisms of drug-metabolizing enzymes CYP2C9, CYP2D6, and CYP3A4 in the Turkish population

Semiz A., Aynaci H. K., Kus E., Elmas L., Sen A.

Joint Conference of the 33rd FEBS Congress/11th IUBMB Conference, Athens, Greece, 28 June - 03 July 2008, vol.275, pp.110

XLI. Possible use of endpoint fluorometric 7-methoxy-4-trifluoromethyl coumarin o-demethylase assay for assessment of CYP2C activity in rat liver

Aynaci H. K., Sen A.

Joint Conference of the 33rd FEBS Congress/11th IUBMB Conference, Athens, Greece, 28 June - 03 July 2008, vol.275, pp.390

XLII. Brain aromatase of gilthead seabream (Sparcus aurata) using dibenzylfluorescein

Hancer D., Sen A.

32nd Congress of the Federation-of-European-Biochemical-Societies (FEBS), Vienna, Austria, 7 - 12 July 2007, vol.274, pp.275

XLIII. Changes in protein, activity and mRNA levels of hepatic CYP2E and CYP3A in annual nettle treated Wistar rats

Tekin P., Sen A.

32nd Congress of the Federation-of-European-Biochemical-Societies (FEBS), Vienna, Austria, 7 - 12 July 2007, vol.274, pp.292

XLIV. Protective effects of annual nettle against chemical carcinogens

Semiz A., Ozkarsli M., Sen A.

32nd Congress of the Federation-of-European-Biochemical-Societies (FEBS), Vienna, Austria, 7 - 12 July 2007, vol.274, pp.178

XLV. Changes of drug metabolizing enzymes activities in senescent gilthead seabream (Sparus aurata) Akdogan H. A., Sen A.

31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Turkey, 24 - 29 June 2006, vol.273, pp.140

XLVI. A potential role of sulfite oxidase deficiency in xenobiotic metabolism

Tutuncu B., Sen A., Kucukatay V., Sahin B.

31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Turkey, 24 - 29 June 2006, vol.273, pp.240

XLVII. Cholinesterases as potential biomarkers in Tubifex sp.

Ozdemir A., Sen A., Duran M.

31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Turkey, 24 - 29 June 2006, vol.273, pp.291

XLVIII. In vivo assessment of Urtica urens supplementation on rat xenobiotic metabolizing enzymes

Sen A., Agus H. H., Bayav M., Sevim H.

31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Turkey, 24 - 29 June 2006, vol.273, pp.300

XLIX. In vivo effects of Urtica urens seed extracts on the cytochrome P450-dependent monooxygenases in the liver, lung, and kidney of control and 3-methylcholanthrene-exposed rats

Sen A., Agus H. H., Bayav M., Sevim H.

14th North American Meeting of the International-Society-for-the-Study-of-Xenobiotics, Rio-Grande, Brazil, 22 - 26 October 2006, vol.38, pp.55-56

Supported Projects

ŞEN A., ACAR B., DEMİRTAŞ T. T., Project Supported by Higher Education Institutions, Üç boyutlu 3B hücre kültüründe Metakrilatlanmış jelatin JelMA ve Matrijelin nöral farklılaşmaya ve organoid oluşumuna etkilerinin karşılaştırmalı olarak incelenmesi, 2022 - Continues

Şen A., Ayaz Guner Ş. A., Gungor B., Erturk Zararsiz G., Guner H., Yousef M., TUBITAK Project, Integrative transcriptomic, proteomic, and machine learning approach to identifying the role of lncRNA XIST in MS etiopathogenesis using human vascular brain organoids, 2024 - 2027

Aktas Pepe N., Şen A., Erturk Zararsiz G., Ayaz Guner S., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Investigation of the role of long non-coding RNA (X-inactive specific transcript) in the female bias of multiple sclerosis by transcriptomics and proteomics approaches in cerebral organoids., 2023 - 2024

Şen A., TUBITAK Project, Multitargeting on Neuroinflammation for Multiple Sclerosis and Cognitive Impairment: Design and Synthesis of Ciproxifan and Fingolimod Based Hybrid Derivatives and Determination of Their Bioactivities in Brain Organoids, 2020 - 2023

Activities in Scientific Journals

Turkish Journal Of Biology, First Editor, 2018 - Continues
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, Editor, 2014 - Continues

Memberships / Tasks in Scientific Organizations

European Association for Cancer Research, Member, 2014 - Continues, United Kingdom

National Society of the Molecular Cancer Research, Member, 2014 - Continues, Turkey

Molecular Biology Association of Turkey, Member, 2011 - Continues, Turkey

The Society of Environmental Toxicology and Chemistry (SETAC), Member, 2008 - 2011, United States Of America Turkish Society of Toxicology, Member, 2008 - 2010, Turkey

International Society for the Study of Xenobiotics (ISSX, Member, 1997 - 2006, United States Of America

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