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포스터발표

P-001 SYSTEM FOR ASSESSING THE (Q)SAR-BASED ALTERNATIVE METHODS FOR CARCINOGENICITY AND MUTAGENICITY TO SUPPORT REGIONAL REGISTRATIONS OF CHEMICALS

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P-002 A QUANTITATIVE STRUCTURE ACTIVITY RELATIONSHIP (QSAR) STUDY OF SKIN TOXICITIES: SKIN SENSITIZATION, SKIN IRRITATION AND EYE IRRITATION

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P-003 IMMUNE CELL ACTIVATION OF PHYTOCHEMICALS FROM *CURCUMACEAE* PLANTS ON GASTRIC CANCER CELL IMPLANTED TUMOR CELL

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P-004 SURVEY OF GLOBAL GLP RESIDUE STUDY FOR OPERATION AND MANAGEMENT

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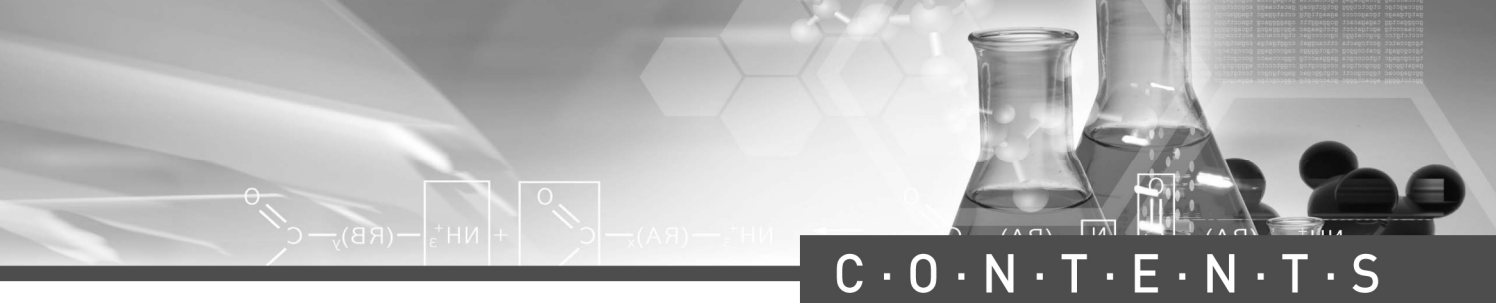
P-005 ACCURATE EVALUATION OF GENOTOXICITY OF SILICA DIOXIDE NANOPARTICLES WITH *IN VITRO* AND *IN VIVO* TESTS

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P-006 A NOVEL CHEMOPREVENTIVE MECHANISM OF ORGANIC SELENIUM COMPOUNDS: ENHANCEMENT OF p53-MEDIATED BASE EXCISION REPAIR ACTIVITY VIA INDUCING APE1 ACTIVITY WITH Gadd45a AND PCNA INTERACTION

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P-007 GENOTOXICITY AND SIGNALING PATHWAY ANALYSIS OF RAT LIVER EXPOSED TO LOW-DOSE CADMIUM CHLORIDE

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P-008 TOXICITY OF nTiO₂ VIA GENERATION OF ROS IN HUMAN KERATINOCYTE CELLS *IN VITRO*

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P-009 IDENTIFICATION OF NOVEL POTENTIAL TARGETS FOR SELENOMETHIONINE-MEDIATED POTENTIAL CHEMOPREVENTIVE BIOMARKERS IN COLORECTAL CARCINOMA MOUSE MODEL

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P-010 HIGH RISK OF OXIDATIVE DNA DAMAGE BY THIOREDOXIN REDUCTASE 1 AND NICKEL EXPOSURE: THE SYNERGISTIC EFFECT OF GENE-ENVIRONMENT INTERACTIONS

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P-011 GENE EXPRESSION OF CYTOCHROME P450 1A1 WAS INVOLVED IN THE ALTERATION OF CELL FUNCTION BY DIOXIN VIA ESTROGEN RECEPTOR IN CELLULAR AND XENOGRAFTED OVARIAN CANCER MODELS

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P-012 TREATMENT OF PROSTATE CANCER CELLS WITH HEXABOROMOCYCLODODECANE AND 4-NONYLPHENOL RESULTED IN THE ALTERATION OF CELL GROWTH, APOPTOSIS AND MIGRATION-RELATED

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GENES *IN VITRO*

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P-013 TREATMENT WITH CIGARETTE SMOKE EXTRACTS ALTERED THE CELL PROLIFERATION, MIGRATION AND METASTASIS IN A HUMAN OVARIAN CANCER CELL MODEL

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P-014 ALTERATIONS OF CELL CYCLE, CELL MIGRATION AND ENDOCRINE ACTIVITY WERE INDUCED BY CIGARETTE SMOKE EXTRACTS IN JEG-3 HUMAN PLACENTAL CELLS

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P-015 LIFE SPAN OF HUMAN CORNEAL EPITHELIAL CELLS WAS EXTENDED BY SV40 LARGE T ANTIGEN MEDIATED VIA THE ALTERATION OF CELL CYCLE-RELATED GENES

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P-016 A NOVEL PHYTOESTROGEN, 3,3'-DIINDOLYLMETHANE, REVERSED TRICLOSAN-INDUCED GROWTH AND MIGRATION OF MCF-7 BREAST CANCER CELLS BY REGULATING EPITHELIAL MESENCHYMAL TRANSITION

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P-017 EXPRESSIONS OF CELL CYCLE RELATED GENES AND CELL VIABILITY WERE ALTERED BY CIGARETTE SMOKE EXTRACT IN JEG-3 PLACENTAL ADENOCARCINOMA CELLS

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P-018 THERAPEUTIC STEM CELLS EXPRESSING CYTOSINE DEAMINASE AND INTERFERON- β SUPPRESSED THE GROWTH OF HUMAN CHORIOCARCINOMA CELLS IN CELLULAR AND XENOGRAFTE MOUSE MODELS

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P-019 IMPROVED DEVELOPMENTAL TOXICITY TEST INCLUDING THE SIZE OF MEBS

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P-020 THE INFLUENCE OF PROGESTERONE ON CALCIUM SIGNALING DURING DIFFERENTIATION INTO CARDIOMYOCYTE IN MES CELLS

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P-021 IN VIVO MODEL FOR EFFECT OF THE EDCS ON PLACENTAL CATION TRANSPORTERS

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P-022 2,4,6-TRIBROMOPHENOL OF BROMINATED FLAME RETARDANT EFFECT TO MOUSE THYROID SYSTEM

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P-023 REGULATION AND LOCALIZATION OF THE CALBINDIN-D9k IN RAT ESOPHAGUS BY STEROID HORMONE

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P-024 THE ROLES OF S6K1 IN ENERGY FLOW: METABOLIC SWITCH AND THE CHANGE OF MITOCHONDRIAL MORPHOLOGY

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P-025 COMPARISON OF DERMAL ABSORPTION OF CHLOROPYRIFOS BETWEEN *IN VITRO* RAT DERMAL TISSUE MODEL AND *IN VIVO* RAT MODEL

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P-026 CHLORPYRIFOS PROVOKES NLRP3 INFLAMMASOME AND PROGRAMMED CELL DEATH THROUGH MITOCHONDRIAL OXIDATIVE STRESS IN SKIN KERATINOCYTES

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P-027 TRIFLOXYSTROBIN INDUCES TRAIL-MEDIATED APOPTOSIS IN HUMAN KERATINOCYTES

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P-028 THIRTEEN-WEEK REPEATED ORAL DOSE TOXICITY STUDY AND TOXICOKINETICS OF FIMASARTAN POTASSIUM TRIHYDRATE+ROSUVASTATIN CALCIUM MIXTURE IN SPRAGUE-DAWLEY RATS

Yun-Sun Nam¹, Chung-Tack Han², Jung-Hwa Chul¹, Yeon-Seo Choi¹, Jae-Soo Lim¹,

Joo-Han Lee¹, Dal-Hyun Kim¹ and Jay-Hyuk Myung^{1,*}

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P-029 TARGETING BREAST CANCER STEM-LIKE CELLS WITH ALK5 INHIBITOR IMPROVES PACLITAXEL THERAPY THROUGH INHIBITING SNAIL

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P-030 REACTIVE OXYGEN SPECIES SIGNALING IN TGF- β -MEDIATED LIVER, KIDNEY, AND LUNG FIBROSIS

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P-031 A NOVEL SMALL-MOLECULE TGF β RECEPTOR I KINASE INHIBITOR, EW-7197 POTENTLY INHIBITS BREAST TO LUNG METASTASIS

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P-032 PYRUVATE INCORPORATED INTO THE MITOCHONDRIA IS INVOLVED IN ENHANCEMENT OF METHYLMERCURY TOXICITY THROUGH MITOCHONDRIAL MEMBRANE POTENTIAL DAMAGE

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P-033 IN VIVO COMET ASSAY OF FIMASARTAN POTASSIUM TRIHYDRATE AND AMLODIPINE BESYLATE COMPLEX ADMINISTERED BY ORAL GAVAGE IN LIVER AND STOMACH OF MALE SD RATS

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P-034 BRAIN CHOLINESTERASE ACTIVITIES IN ORGANOPHOSPHATE-EXPOSED WILD BIRDS IN KOREA

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P-035 A STUDY FOR DETERMINATION OF MAXIMUM RESIDUE LIMIT AND WITHDRAWAL PERIOD FOR ALTRENOGEST PRODUCT IN PIGS

Hee Yi, Ji-Hyun Bang, Young-Il Park, Hyo-Jin Kim, Sung-Won Park, Jae-Young Song and Hwan-Goo Kang*

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P-036 ANTI-HYPERGLYCEMIA EFFECTS OF DUNG BEETLE EXTRACT IN RATS ON HIGH FAT DIET

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P-037 THE ROLE OF SULFOTRANSFERASE ON CYTOTOXICITY AND MUTAGENESIS OF 3,5-DIMETHYLANILINE

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P-038 DETERMINATION OF PARAQUAT IN BIOLOGICAL SPECIMENS OF THE

HOMICIDAL POISONING CASE EXHUMED AFTER 23 MONTHS

Su-jin Jeong, Il-ung Seol, Hye-sun Yum, Sung-min Moon, Min-ji Kang, Juseon Lee and Seungkyung Baek*

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P-039 15-DEOXY- $\Delta^{12,14}$ -PROSTAGLANDIN J₂ STIMULATES EFFEROCYTOSIS THROUGH NRF2-MEDIATED EXPRESSION OF CD36 AND HEME OXYGENASE-1 IN MURINE MACROPHAGES

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P-040 IDENTIFYING HEPATOTOXIC EFFECTS OF AFLATOXIN B1 ON *IN VITRO* HEPATOGENESIS USING HUMAN INDUCED PLURIPOTENT STEM CELL

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P-041 A ZEBRAFISH MODEL FOR EVALUATION OF LIVER STEATOSIS

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P-042 INVESTIGATION OF CTMP/LETM1 FUNCTION IN HEAD AND NECK CANCER

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P-043 PUTATIVE ROLES OF Sirt3 IN CCCP-INDUCED MITOPHAGY IN LUNG CANCER

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P-044 S6K1 IS REQUIRED FOR MYOGENIC DIFFERENTIATION

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P-045 GENOME-WIDE SCREENING FOR GENETIC VARIANTS ASSOCIATED WITH AGE-RELATED CATARACT IN FARMERS

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P-046 INDUCTION OF EZRIN EXPRESSION AS NEW BIOMARKERS FOR IN-VITRO EYE IRRITATION USING A 3D RECONSTRUCTED HUMAN CORNEAL MODEL MCTT HCETM AND IMMORTALIZED HUMAN CORNEAL CELLS

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P-047 BRAIN AND BLOOD CHOLINESTERASE ACTIVITIES IN ORGANOPHOSPHATE-EXPOSED CATTLE IN KOREA

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P-048 ANTI-CANCER EFFECT OF PIPERLONGUMINE ON LUNG TUMOR GROWTH VIA INHIBITION OF NUCLEAR FACTOR KAPPA B SIGNALING PATHWAY

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P-049 SUPPRESSION OF TUMOR DEVELOPMENT IN ALLERGENIC RESPONSE INDUCED MELANOMA MODEL VIA ACTIVATION OF STAT6

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P-050 CHANGES IN BODY AND ORGAN WEIGHTS, HEMATOLOGICAL PARAMETERS, FREQUENCY OF MICRONUCLEI AND SPLENOCYTIC

APOPTOSIS IN HIGH- AND LOW-DOSE RATE γ -IRRADIATED AKR/J MICE

Heeyoun Shim, Byulnim Hwang, Hyunjin Joo, Hoon Choi, Kwang-Hee Yang, Yun-Mi Baek, Jeong-In Kim, Seokon Kang, Byoung-Il Lee and Hee-Sun Kim*

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P-051 STEROID SULFATASE INDUCES HIF1A MEDIATED EPITHELIAL MESENCHYMAL TRANSITION (EMT) IN PC-3 CELLS

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P-052 ROLE OF HUMAN STEROID SULFATASE IN CANCER METABOLISM

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P-053 UPREGULATION OF TUMOR SUPPRESSOR GENES IN CHRONIC LOW-DOSE-RATE γ -IRRADIATED EL4 CELLS

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P-054 DOMINANT CONTRIBUTION OF p21-ACTIVATED KINASE (PAK)-1 IN CELL MIGRATION AND INVASION IN HEAD AND NECK CANCER

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P-055 TAURINE CHLORAMINE STIMULATES PHAGOCYTOSIS THROUGH Nrf2-MEDIATED HEME OXYGENASE-1 EXPRESSION: POSSIBLE INVOLVEMENT OF CARBON MONOXIDE

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P-056 SAURURUS CHINENSIS BAILL INDUCES ER STRESS MEDIATED CELL DEATH IN HEPG2 HEPATOCELLULAR CARCINOMA CELLS

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P-057 LIPIN-1 ATTENUATES HEPATIC STELLATE CELL ACTIVATION VIA INHIBITION OF TGF- β 1/SMAD SIGNALING

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P-058 RESEARCH FOR DEVELOPING GUIDANCE ON CUMULATIVE RISK ASSESSMENT OF CHEMICALS THAT HAVE A COMMON MECHANISM OF TOXICITY

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P-059 THE POTENTIAL HEALTH EFFECTS OF COMMERCIAL PRODUCTS

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P-060 RESVERATROL INHIBITS Pim-1 KINASE ACTIVITY THROUGH DIRECT BINDING IN HUMAN GASTRIC CANCER CELLS

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P-061 THE STUDY OF ACTION POTENTIAL PARAMETERS IN HUMAN INDUCED PLURIPOTENT STEM CELL-DERIVED CARDIOMYOCYTES

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P-062 ACUTE INHALATION TOXICITY STUDY OF 3-METHYLPENTANE IN SPRAGUE-DAWLEY RATS

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P-063 STUDY ON A 4-WEEK INHALATION TOXICITY STUDY OF NANO-SIZED LANTHANUM OXIDE AEROSOLS FOLLOWED BY A 4-WEEK RECOVERY IN SPRAGUE-DAWLEY RATS

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P-064 DETERMINATION OF AFLATOXIN M1, DEOXYNIVALENOL, FUMONISIN B1, OCHRATOXIN A, ZEARALENONE IN CHICKEN STOMACH CONTENTS BY LC-MS/MS

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P-065 METHOD DEVELOPMENT FOR DETERMINATION OF MULTI-MYCOTOXINS IN CHICKEN LIVER AND KIDNEY TISSUES BY LC-MS/MS

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P-066 INHIBITORY EFFECTS OF EXOGENOUS RECOMBINANT HUMAN THIOREDOXIN-1 TO THE CYCLOSPORINE A-INDUCED NEPHROTOXICITY VIA REDUCING ROS AND PREVENTING APOPTOSIS

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P-067 RECOMBINANT HUMAN THIOREDOXIN-1 PREVENTS ASPIRIN AND ETHANOL-INDUCED GASTRIC MUCOSAL INJURY IN MICE VIA DIFFERENT MECHANISMS DEPENDENT ON THE MODELS

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P-068 THE PROTECTIVE EFFECTS OF *PERILLA FRUTESCENS* EXTRACT AGAINST DEXTRAN SULFATE SODIUM-INDUCED COLITIS IN MICE AND UNDERLYING MECHANISMS

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P-069 DIFFERENTIAL EXPRESSION OF CELL CYCLE-RELATED GENES IN ACUTE AND CHRONIC LOW DOSE γ -IRRADIATED EL4 T LYMPHOMA CELL

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P-070 SINGLE ORAL DOSE TOXICITY EVALUATION OF DENDROBIUM

MONILIFORME AQUEOUS EXTRACT (DMAE) IN RATS

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**P-071 THE ASSOCIATION BETWEEN URINARY ACRYLAMIDE (AA) AND
N-ACETYL-S-(2-CARBAMOYLETHYL)-CYSTEINE (AAMA) CONCENTRATIONS
AND DEMOGRAPHIC FACTORS IN KOREAN CHILDREN**

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**P-072 A SELECTIVE-HDAC6 INHIBITOR SYNERGISTICALLY ENHANCES THE
ANTICANCER ACTIVITY OF THE CHEMOTHERAPEUTIC AGENTS IN
COLORECTAL CANCER CELLS**

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**P-073 DERMAL ABSORPTION OF BROMOCHLOROPHENE, A COSMETIC
PRESERVATIVE INGREDIENT USING PHARMACOKINETICS IN RATS**

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**P-074 PROLONGED AMP-ACTIVATED PROTEIN KINASE ACTIVATION IN MICE
INDUCES HEPATIC LIPID ACCUMULATION BY INCREASED FATTY ACID
UPTAKE MEDIATED BY CD36**

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P-075 RISK ASSESSMENT OF SWEETENERS (STEVIOL GLYCOSIDES, ACESULFAME POTASSIUM, SUCRALOSE)

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P-076 CYP1B1-INDUCED CELL MIGRATION AND INVASION IS RELATED TO uPAR-INTEGRIN PATHWAY

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P-077 ANTIAPOPTOTIC EFFECT OF XIAP INDUCED BY CYP1B1 IN MCF-7 CELLS

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P-078 DETERMINATION OF CETYLTRIMETHYL AMMONIUM BROMIDE AND CHLORIDE USED IN COSMETICS BY LC-MS/MS

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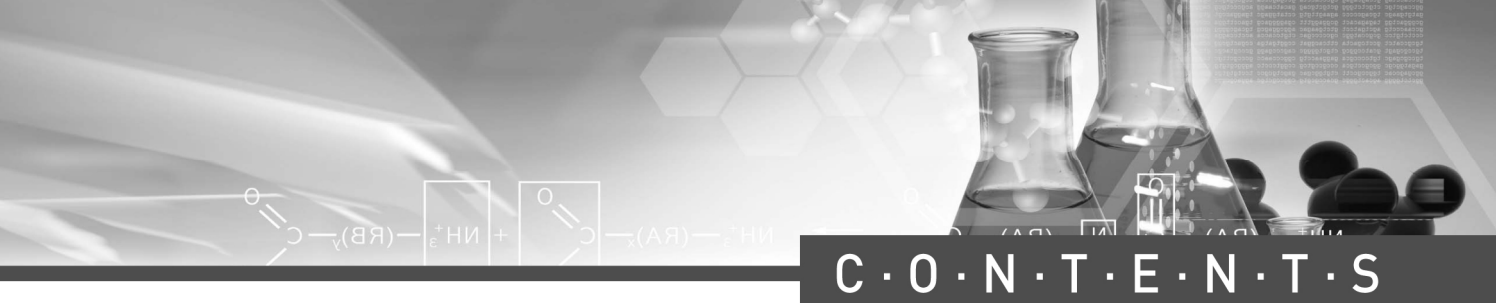
P-079 AMLODIPINE BLOOD CONCENTRATIONS FOR FATAL AND NON-FATAL CASES DETECTED AMLODIPINE BY LC/MS/MS

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P-080 INVESTIGATION OF ALTERNATIVE TO ANIMAL TEST METHODS FOR OCULAR IRRITANCY OF CONTACT LENSES IN COMPARISON WITH ISO10933-10

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P-081 META-ANALYSIS OF THE ASSOCIATION BETWEEN EXPOSURE BIOMARKER LEVELS OF LEAD AND ADHD AMONG CHILDREN: PRELIMINARY RESULTS

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P-082 EFFECT OF BETULINIC ACID ON eNOS ACTIVITY VIA CaMKII AND AMPK DEPENDENT SIGNALING PATHWAY IN EA.hy926

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P-083 PROTECTIVE EFFECT OF RUTAECARPINE ON TERT-BUTYL HYDROPEROXIDE-INDUCED TOXICITY BY INDUCTION OF PHASE II ANTIOXIDANT ENZYMES VIA TRPV1/CaMKII/Akt PATHWAYS

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P-084 EXPRESSION PATTERN OF METALLOTHIONEIN ISOMERS IN VARIOUS SUBTYPES OF BREAST CANCER CELL LINES

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P-085 EFFECT OF METALLOTHIONEIN-2A ON EPITHELIAL-MESENCHYMAL TRANSITION IN BREAST CANCER CELLS

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P-086 EFFECT OF METALLOTHIONEIN-III ON AMYLOID β -INDUCED APOPTOSIS BY INSULIN DEGRADING ENZYME IN N2a CELLS

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P-087 EFFECTS OF TOBACCO SUBSTANCE

4-(METHYLNITROSAMINO)-1-(3-PYRIDYL)-1-BUTANONE ON THE EXPRESSION OF EPIGENETICALLY REGULATED GENES IN LUNG CARCINOGENESIS

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P-088 NEUROPROTECTIVE EFFECT OF IMPRESSIC ACID ON 6-HYDROXYDOPAMINE-INDUCED OXIDATIVE STRESS IN SH-SY5Y CELLS

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P-089 TRENDS OF DERMAL SENSITIZATION BY PRESERVATIVES IN COSMETIC PRODUCTS

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P-090 CURRENT TRENDS FOR THE SAFETY EVALUATION OF NATURAL PRODUCTS

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P-091 RISK PROFILING OF HYDROLYZED SOY PROTEIN, UBIQUINONE AND PYRIDOXINE HCL AS SKIN CONDITIONING AGENTS

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P-092 THE IMPACT OF α - AND γ -MANGOSTIN ON RAT PLATELETS: CAUSING SHAPE CHANGE, INHIBITING AGGREGATION AND INDUCING CYTOLYSIS

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P-093 CHARACTERIZATION OF CIGARETTE SMOKE-INDUCED REACTIVE OXYGEN SPECIES GENERATION IN RAT VASCULAR SMOOTH MUSCLE CELLS

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P-094 GENOME-WIDE DNA METHYLATION ANALYSIS IN HUMAN PARTHENOGENETIC INDUCED PLURIPOTENT STEM CELLS GENERATED FROM UNIPARENTAL OVARIAN TERATOMAS

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P-095 A STUDY OF ANALYSIS FOR HAZARDOUS MATERIALS IN HUMAN SAMPLE BIOMONITORING OF MYCOTOXIN

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P-096 PERCUTANEOUS PERMEABILITY OF 1-PHENOXY-2-PROPANOL, A PRESERVATIVE IN COSMETICS

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P-097 KNOCKDOWN OF INDIVIDUAL microRNAs INHIBITS PROLIFERATION OF NEURAL STEM CELLS

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P-098 SOME NATURAL AMINO ACIDS AMELIORATE METABOLIC DYSFUNCTION BY ACTIVATING SIRT1

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P-099 THE ASSOCIATION BETWEEN THE LEVELS OF URINARY PHTHALATES AND LIFESTYLE BEHAVIORS IN THE KOREAN CHILDREN

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P-100 ANTI-WRINKLE EFFECT OF FERMENTED BLACK GINSENG IN HUMAN FIBROBLAST HS68 CELLS

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P-101 BIOANALYTICAL EQUIVALENCE OF ANTI-DRUG IMMUNOGENICITY ASSAY: A LOT-TO-LOT COMPARABILITY TESTS FOR REPEBODY

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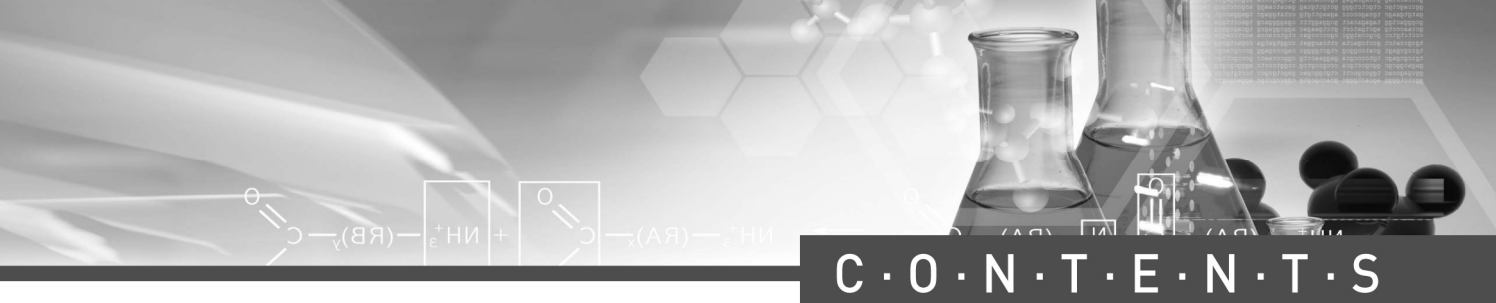
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P-102 A SYSTEMATIC RNAi SCREEN REVEALS NUCLEOTIDE EXCISION REPAIR IS INVOLVED IN TOXIC PATHWAY OF IRANIAN HEAVY CRUDE OIL IN THE NEMATODE, *CAENOHABDITIS ELEGANS*

Young-Ho Kim¹, Ji-Su Yang¹, Nivedita Chatterjee¹, Ji-Yeon Roh², Jung-Hwan Kwon² and Jin-hee Choi^{1,*}

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P-103 EFFECT OF TRICLOSAN ON ESTROGENIC ACTIVITY IN VITRO AND IN VIVO



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P-104 EFFECT OF ZINC PYRITHIONE ON ESTROGENIC ACTIVITY IN VITRO AND IN VIVO

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P-105 AUTOPHAGY-MEDIATED DEGRADATION OF TIGHT JUNCTION PROTEINS IN BLOOD-BRAIN BARRIER BY ISCHEMIC STIMULI

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P-106 HEAVY METAL EXPOSURE INCREASES THE SUSCEPTIBILITY TO HYPOXIC DAMAGE IN BBB ENDOTHELIAL CELLS

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P-107 FUNCTIONAL EXPRESSION AND CHARACTERIZATION OF CYP52 GENES INVOLVED IN THE FATTY ACID METABOLISM FROM *CANDIDA ALBICANS*

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P-108 FUNCTIONAL CHARACTERIZATION OF HUMAN CYTOCHROME P450 1A2 ALLELIC VARIANTS, P450 1A2*8, *15, AND *16 (R456H, P42R, AND R377Q)

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P-109 EPIGENETIC MECHANISM IS INVOLVED IN THE TRANSGENERATIONAL TOXICITY OF IRANIAN HEAVY CRUDE OIL IN THE NEMATODE, *CAENOHABDITIS ELEGANS*

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P-110 GENOTOXIC AND EPIGENOTOXIC EFFECTS OF GRAPHENE FAMILY NANOMATERIALS (GFNs) IN IN VITRO SYSTEMS

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P-111 IDENTIFICATION OF NONINVASIVE BIOMARKER CANDIDATES FOR CADMIUM-INDUCED NEPHROTOXICITY BY 2DE/MALDI-TOF MS AND SILAC/LC-MS

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P-112 MAINSTREAM CIGARETTE SMOKE ACCELERATES THE PROGRESSION OF NONALCOHOLIC STEATOHEPATITIS BY MODULATING OXIDATIVE STRESS AND JNK-MEDIATED HEPATOCELLULAR APOPTOSIS IN ADOLESCENT MICE

Surim Park¹, Jong Won Kim¹, Hyejin Yun¹, Seong-Jin Choi², Sang-Hyub Lee², Chae Woong Lim¹, Kyuhong Lee² and Bumseok Kim^{1,*}

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P-113 ACUTE TOXICITY OF PESTICIDES DETECTED IN POLLEN TO HONEYBEE LARVAE

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P-114 ARSENIC SPECIATION IN RICE GRAINS BY ENZYMATIC EXTRACTION WITH ALPHA-AMYLASE

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P-115 INTERACTIONS FOR PESTICIDE MIXTURES TO HONEYBEE LARVAE TOXICITY

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P-116 *IN VITRO* GENOTOXIC EFFECTS OF AQUEOUS *AZADIRACHTA INDICA* EXTRACT

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P-117 METABOLOME PROFILING OF ANTIOXIDANT SUPPLEMENT (MP) IN HUMANS

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P-118 ALLEVIATION OF ADVERSE EFFECTS OF CYCLOPHOSPHAMIDE IN β -GLUCAN FEEDING RATS

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P-119 ESTABLISHMENT OF MATRIGEL-BASED *IN VITRO* SPERMATOGENIAL STEM CELL CULTURE SYSTEM FOR HIGH THROUGHPUT REPRODUCTIVE TOXICITY TESTING

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P-120 FOUR SINGLE NUCLEOTIDE VARIATIONS IMPAIR THE CATALYTIC FUNCTION OF HUMAN DNA POLYMERASE κ IN TRANSLESION DNA SYNTHESIS

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P-121 NINE MISSENSE VARIATIONS ALTER THE FUNCTION OF HUMAN REV1 INVOLVED IN TRANSLATION AND G-QUADRUPLEX DNA REPLICATION

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P-122 BODY FAT VOLUME MEASURED BY COMPUTED TOMOGRAPHY, A VALUABLE MARKER FOR AN OBESITY MODEL IN CYNOMOLGUS MONKEYS

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P-123 IDENTIFICATION OF A NOVEL PEPTIDE THAT SELECTIVELY BINDS TO KIDNEY INJURY MOLECULE-1 (KIM-1) BY PHAGE DISPLAYED PEPTIDE LIBRARY

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P-124 INHIBITORY EFFECTS FOR RHEUMATOID ARTHRITIS OF CELECOXIB IN COLLAGEN-INDUCED ARTHRITIS USING FLUORESCENT PROBES

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P-125 **IN VIVO MULTIMODAL IMAGING FOR THE EVALUATION OF ANTICANCER AGENTS IN METASTATIC BREAST CANCER MOUSE MODEL**

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P-126 **BIODISTRIBUTION AND TUMORIGENICITY STUDY OF MOUSE EMBRYONIC STEM CELL BY SUBCUTANEOUS AND INTRAPERITONEAL INJECTION**

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P-127 **STUDY ON NEURONAL TOXICITY OF ZnO NANOPARTICLES EACH THE SIZE AND SURFACE CHARGE**

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P-128 **THE EFFECT OF SIRT1 INHIBITOR, MHY2256, INDUCING APOPTOSIS AND AUTOPHAGIC CELL DEATH THROUGH p53 ACTIVATION IN HUMNA CANCER CELLS**

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P-129 **DETERMINATION OF CHLOROBUTANOL'S PERCUTANEOUS ABSORPTION USING HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY**

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P-130 **METHODOLOGICAL CONSIDERATIONS FOR ASSESSING THE CYTOTOXICITY OF NANOMATERIALS**

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P-131 TOXICITY ASSESSMENT OF AQUEOUS EXTRACT OF *EPIMEDIUM KOREANUM*; 13-WEEK ORAL DOSE STUDY IN F344 RATS

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P-132 RELATIONSHIP BETWEEN URINARY NEPHROTOXIC BIOMARKERS AND BLOOD LEVEL OF HEAVY METALS IN KOREAN CHILDREN

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P-133 PLUMBAGIN INDUCES P53-DEPENDENT APOPTOSIS VIA GENERATION OF REACTIVE OXYGEN SPECIES IN HUMAN CANCER CELLS

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P-134 PROTECTIVE EFFECT OF PLATYCODON GRANDIFLORUM EXTRACT AGAINST UVB-INDUCED OXIDATIVE STRESS IN HUMAN KERATINOCYTES

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P-135 A SUBCHRONIC TOXICITY STUDY OF RADIX DIPSACI WATER EXTRACT BY ORAL ADMINISTRATION IN F344 RATS

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P-136 A FATAL CASE OF PARAMETHOXYAMPHETAMINE POISONING

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P-137 PSAMMAPLIN A INDUCES AUTOPHGY IN DOXORUBICIN-RESISTANT HUMAN

CANCER MCF-7-ADR CELLS

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P-138 EVALUATION OF PULMONARY TOXICITY INDUCED BY THE MIXTURE OF BENZALKONIUM CHLORIDE AND TRIETHYLENE GLYCOL USING *IN VITRO* AND *IN VIVO* MODELS

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P-139 A NOVEL ROLE FOR FLOTILLIN-1 IN H-RAS-REGULATED BREAST CANCER AGGRESSIVENESS

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P-140 INHIBITORY EFFECT OF AUTOPHAGY ON NSAIDs

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P-141 ACCURATE APPLICATIONS OF ESR SPIN TRAPPING AS A METHOD FOR MEASURING REACTIVE OXYGEN SPECIES (ROS) GENERATED BY NANOMATERIALS

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P-142 COMPARISON OF TEST METHODS TO IMPROVE DRUG INTERFERENCE IN IMMUNOGENICITY ASSAY

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P-143 NED-135 COMPOUND EXHIBITS A POTENT INHIBITORY EFFECT ON THE INVASIVE BREAST CANCER CELLS

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P-144 LEAD, MERCURY AND CADMIUM EXPOSURE IN KOREAN GENERAL POPULATION

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P-145 CINNAMAIDE DERIVATES, SPA127, INDUCES SHP BY AMPK AND DECREASE BILE ACID ACCUMULATION AND iNOS

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P-146 A STUDY ON METAL MIGRATION IN KITCHENWARE

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P-147 A STUDY OF AWARENESS AND THE CONSUMPTION BEHAVIOR ON THE USE OF PRODUCTS RELATED TO ENDOCRINE DISRUPTING CHEMICALS TARGETING FERTILE WOMEN

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P-148 PERI-PUBERTAL HIGH CAFFEINE EXPOSURE INTERRUPTS DEVELOPMENT OF FEMALE REPRODUCTIVE SYSTEM IN THE RAT

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P-149 HOST-DERIVED OXIDIZED PHOSPHATIDYLCHOLINES BLOCKS LPS BINDING TO TLR4/MD2 COMPLEX

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P-150 IMMUNOSTIMULATORY ACTIVITY OF Y-DNA IN DENDRITIC CELLS THROUGH TLR9 ACTIVATION

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P-151 SULFORAPHANE COVALENTLY BINDS TO Cys133 IN MD2 TO BLOCK THE ACTIVATION OF TLR4

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P-152 CHARACTERIZATION AND COMPARISON OF THE GENE AND PROTEIN EXPRESSIONS IN 10 CANINE MAMMARY TUMOR CELL LINES

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P-153 17-OXO-DOCOSAHEXAENOIC ACID INDUCES Nrf2-MEDIATED EXPRESSION OF HEME OXYGENASE-1 AND NAD(P)H:QUINONE OXIDOREDUCTASE IN

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MOUSE SKIN

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P-154 DIFFERENCE OF PULMONARY DISTRIBUTION ACCORDING TO ADMINISTRATION TYPE OF VISUAL INSTILLOBOT

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P-155 VISUAL INSTILLOBOT: A NEW METHOD TO INTRATRACHEAL INSTILLATION IN THE RODENTS

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P-156 OPTIMIZATION OF HIGH-CONTENT SCREENING IN ZEBRAFISH EMBRYO FOR ASSESSING TOXICITY

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P-157 THE CELL PROLIFERATION INDUCED BY CYP1B1 IS BASED ON THE ACTIVATION OF WNT/ β -CATENIN SIGNALING

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P-158 THE SUPPRESSION OF APOPTOSIS BY CYP1B1 THROUGH INHIBITION OF TRAIL PATHWAY IS MEDIATED BY Sp1

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P-159 METHOD DEVELOPMENT TO INDUCE BRONCHOCONSTRICTION IN NORMAL ANIMALS

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P-160 DEVELOPMENT OF hPer2 GENE TRANSFECTED HepG2 CELL AS HEPATIC CIRCADIAN MODEL

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P-161 DEVELOPMENT OF TRANSGENIC ZEBRAFISH AS A PREDICTIVE MODEL FOR ASSESSMENT OF DRUG-INDUCED HEPATOTOXICITY

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P-162 ANTI-AGING AND LIPID METABOLISM OF CLADOSIPHON OKAMURANUS IN DIETARY OBESE RATS

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P-163 BIOLOGICAL ACTIVITIES OF FERMENTED RHYNCHOSIA NULUBILIS IN DIETARY OBESE RATS

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P-164 FUNCTIONAL CHARACTERIZATION OF GENETIC VARIANTS OF HUMAN CYP2J2

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P-165 DISRUPTION OF GLUTATHIONE PEROXIDASE 3 PROMOTES PROSTATE TUMORIGENESIS IN TRAMP MICE

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P-166 SARGACHROMENOL INHIBITS UVB-RADIATION INDUCED PHOTOCARCINOGENESIS THROUGH MODULATING CELLULAR ANTIOXIDANT SYSTEMS AND APOPTOSIS IN HUMAN KERATINOCYTES

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P-167 ANTI-OXIDATIVE EFFECTS OF DUNG BEETLE EXTRACT IN RATS ON HIGH FAT DIET

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P-168 POLYHEXAMETHYLENE BIGUANIDE INDUCES Nf-kappaB-MEDIATED INFLAMMATORY RESPONSES ACTIVATION IN A549 CELLS

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P-169 EXPLORING OF AN ALTERNATIVE TEST METHOD FOR *IN VITRO* DERMAL ABSORPTION METHOD USING HUMAN RECONSTRUCTED SKINS

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P-170 GENOTOXICITY EVALUTATION ON BUSULFAN AND PARACETAMOL BASED ON ICH S2 (R1) GUIDELINE

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P-171 DEVELOPMENT OF AN *IN VITRO* PHOTOTOXICITY TEST USING THE THREE-DIMENSIONAL HUMAN EPIDERMIS MODEL DEVELOPED IN KOREA

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P-172 28-DAY REPEATED INTRAPERITONEAL DOSE TOXICITY STUDY OF PUROMYCIN IN MALE SPRAGUE-DAWLEY RATS

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P-173 4-WEEK REPEATED INTRAPERITONEAL DOSE TOXICITY STUDY OF 2-BROMOETHYLAMINE HYDROBROMIDE IN MALE SPRAGUE-DAWLEY RATS

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P-174 A DISTINCTIVE PATTERN OF *BEAUVERIA BASSIANA*-BIOTRANSFORMED GINSENOSEIDE PRODUCTS TRIGGERS MITOCHONDRIA/FASL-MEDIATED APOPTOSIS IN COLON CANCER CELLS

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P-175 NUTRITION COMPOSITION AND ACUTE AND SUBACUTE TOXICITY STUDIES OF THE LEAVES AND STEMS OF *RUBUS COREANUS* MIQUEL

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P-176 BIOACCUMULATION OF Ag NANOWIRE IN DAPHNIA MAGNA

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