

## INVITRO TOXICOLOGY

Advanced in vitro systems for efficacy and toxicity testing in nanomedicine
3D ingrowth of bovine articular chondrocytes in biodegradable cryogel scaffolds for cartilage tissue engineering.
3D Matrices for Anti-Cancer Drug Testing and Development
3D scaffolds in breast cancer research
Gene Expression Analysis of 3D Spheroid Culture of Human Embryonic Kidney Cells
Three-dimensional and co-culture models for preclinical evaluation of metal-based anticancer drugs.
A spheroid-based 3-D culture model for pancreatic cancer drug testing, using the acid phosphatase assay.
Monolayer and Spheroid Culture of Human Liver Hepatocellular Carcinoma Cell Line Cells Demonstrate Distinct Global Gene Expression Patterns and Functional Phenotypes.
Multicellular Tumor Spheroids as an In Vivo–Like Tumor Model for Three-Dimensional Imaging of Chemotherapeutic and Nano Material Cellular Penetration
The 3-D Culture and In Vivo Growth of the Human Hepatocellular Carcinoma Cell Line HepG2 in a Self-Assembling Peptide Nanofiber Scaffold.
Three-Dimensional Cell Culture Systems and Their Applications in Drug Discovery and Cell-Based Biosensors.
Layer-shaped alginate hydrogels enhance the biological performance of human adipose-derived stem cells.
Alginate Hydrogel as a Three-dimensional Extracellular Matrix for In Vitro Models of Development.
An injectable extracellular matrix derived hydrogel for meniscus repair and regeneration.
Monolayer and spheroid culture of human liver hepatocellular carcinoma cell line cells demonstrate distinct global gene expression patterns and functional phenotypes.
Preparation and physical properties of hyaluronic acid-based cryogels.
Dynamic and influential interaction of cancer cells with normal epithelial cells in 3D culture.
Advanced Cell Culture Techniques for Cancer Drug Discovery
Biomaterial scaffold fabrication techniques for potential tissue engineering applications
Novel egg white-based 3-D cell culture system.
High-throughput 3D spheroid culture and drug testing using a 384 hanging drop array.
Role of Human Microsomal and Human Complementary DNA-expressed Cytochromes P4501A2 and P4503A4 in the Bioactivation of Aflatoxin.
An Integrated Computational/Experimental Model of Tumor Invasion.
Cell Invasion in the Spheroid Sprouting Assay: A Spatial Organisation Analysis Adaptable to Cell Behaviour.
Construction of Heterotypic Cell Sheets by Magnetic Force-Based 3-D Coculture of HepG2 and NIH3T3 Cells.
Architecture in 3D cell culture: An essential feature for in vitro toxicology.
Conjunctival melanoma and electrochemotherapy: preliminary results using 2D and 3D cell culture models in vitro.
Identification and anti-cancer activity in 2D and 3D cell culture evaluation of an Iranian isolated marine microalgae Picochlorum sp. RCC486.
Three dimensional primary cultures for selecting human breast cancers that are sensitive to the anti-tumor activity of ipatasertib or taselisib in combination with anti-microtubule cytotoxic drugs.

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Tacrolimus inhibits angiogenesis and induces disaggregation of endothelial cells in spheroids - Toxicity testing in a 3D cell culture approach.
Chemopreventive Activities of Sulforaphane and Its Metabolites in Human Hepatoma HepG2 Cells.
Arsenic disulfide-induced apoptosis and its potential mechanism in two- and three-dimensionally cultured human breast cancer MCF-7 cells.
Anticancer properties of thiophene derivatives in breast cancer MCF-7 cells
Cancer cells growing on perfused 3D collagen model produced higher reactive oxygen species level and were more resistant to cisplatin compared to the 2D model.
Single cell-based automated quantification of therapy responses of invasive cancer spheroids in organotypic 3D culture.
Effect of silibinin-loaded nano-niosomal coated with trimethyl chitosan on miRNAs expression in 2D and 3D models of T47D breast cancer cell line.
Cytotoxicity Profile of Endodontic Sealers Provided by 3D Cell Culture Experimental Model.
Regulation of matrix metalloproteinase secretion by green tea catechins in a three-dimensional co-culture model of macrophages and gingival fibroblasts.
Trehalose effectiveness as a cryoprotectant in 2D and 3D cell cultures of human embryonic kidney cells.
Chemotherapeutic efficiency of drugs in vitro: Comparison of doxorubicin exposure in 3D and 2D culture matrices.
Inhibition of Lysyl Oxidases Improves Drug Diffusion and Increases Efficacy of Cytotoxic Treatment in 3D Tumor Models
Relevance of Breast Cancer Cell Lines as Models for Breast Tumours: An Update
Human Leukemic Models of Myelomonocytic Development: A Review of the HL-60 and U937 Cell Lines
The NCI60 human tumour cell line anticancer drug screen
Characterization of the Human Colon Carcinoma Cell Line (Caco-2) as a Model System for Intestinal Epithelial Permeability
PD 0332991, a selective cyclin D kinase 4/6 inhibitor, preferentially inhibits proliferation of luminal estrogen receptor-positive human breast cancer cell lines <i>in vitro</i>
Normal human chromosome 11 suppresses tumorigenicity of human cervical tumor cell line SiHa
Chromosomal integration sites of human papillomavirus DNA in three cervical cancer cell lines mapped by <i>in situ</i> hybridization
Studies on a New Human Cell Line (SiHa) Derived from Carcinoma of Uterus. I. Its Establishment and Morphology
Nucleotide sequences and further characterization of human papillomavirus DNA present in the CaSki, SiHa and HeLa cervical carcinoma cell lines.
Synthesis of a new platinum(II) complex: anticancer activity and nephrotoxicity <i>in vitro</i>
Gold(III)-dithiocarbamate anticancer agents: Activity, toxicology and histopathological studies in rodents
Antioxidant and anticancer activities of Chenopodium quinoa leaves extracts – <i>In vitro</i> study.
Anticancer activity of litchi fruit pericarp extract against human breast cancer <i>in vitro</i> and <i>in vivo</i> .
<i>In vitro</i> and <i>in vivo</i> studies of the anticancer action of terbinafine in human cancer cell lines: G0/G1 p53-associated cell cycle arrest.
Potential anticancer activity of tanshinone IIA against human breast cancer
Synthesis and anticancer activity of some novel 2-substituted benzimidazole derivatives

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Polymer conjugates as anticancer nanomedicines
Berberine hydrochloride: anticancer activity and nanoparticulate delivery system
Novel thienopyridine derivatives as specific anti-hepatocellular carcinoma (HCC) agents: Synthesis, preliminary structure–activity relationships, and in vitro biological evaluation
Anti-liver cancer activity of TNF-related apoptosis-inducing ligand gene and its bystander effects
Anticancer Activity of Copper (II) Complexes with a Pyridoxal-Semicarbazone Ligand
The resurgence of platinum-based cancer chemotherapy
Skin Regenerative and Anti-Cancer Actions of Copper Peptides
Identification of genes inducing resistance to ionizing radiation in human rectal cancer cell lines: re-sensitization of radio-resistant rectal cancer cells through down regulating NDRG1
A Gene Expression Signature Predicts Bladder Cancer Cell Line Sensitivity to EGFR Inhibition
Derivation of Breast Cancer Cell Lines Under Physiological (5%) Oxygen Concentrations
Establishment and Characterization of the Novel High-Grade Serous Ovarian Cancer Cell Line OVPA8
Development and characterisation of acquired radio resistant breast cancer cell lines
DNA Methylation Profiling of Breast Cancer Cell Lines along the Epithelial Mesenchymal Spectrum—Implications for the Choice of Circulating Tumour DNA Methylation Markers
Retrospective analysis of estrogen receptor 1 and N-acetyl transferase gene expression in normal breast tissue, primary breast tumors, and established breast cancer cell lines
Invitro anticancer active cis-Pt(II)-diiodido complexes containing 4-azaindoles.
Validating the anticancer potential of carbon nanotube-based therapeutics through cell line testing.
Novel thieno pyridine derivatives as specific anti-hepatocellular carcinoma (HCC) agents: Synthesis, preliminary structure–activity relationships, and invitro biological evaluation
Cytotoxicity and genotoxicity of silver nanoparticles in the human lung cancer cell line, A549
Anticancer activity and mechanism of Scutellariabarbata extract on human lung cancer cell line A549
Upregulation of micro RNA-451 increases cisplatin sensitivity of non-small cell lung cancer cell line (A549)
Epithelial to mesenchymal transition derived from repeated exposure to gefitinib determines the sensitivity to EGFR inhibitors in A549, a non-small cell lung cancer cell line
A Novel Antisense Oligo nucleotide Targeting Survivin Expression Induces Apoptosis and Sensitizes Lung Cancer Cells to Chemotherapy
MiR-126 restoration down-regulate VEGF and inhibit the growth of lung cancer cell lines in vitro and in vivo
An oxidative analogue of gambogic acid induced apoptosis of human hepatocellular carcinoma cell line HepG2 is involved in its anticancer activity in vitro
Anticanceractivity of methoxymorpholinyl doxorubicin (PNU 152243) on human hepatocellular carcinoma
The ruthenium compound KP1339 potentiates the anticancer activity of sorafenib in vitro and in vivo
Oleanolic acid and ursolic acid induce apoptosis in four human liver cancer cell lines
Interferon alfa receptor expression and growth inhibition by interferon alfa in human liver cancer cell lines
Exosomes secreted from human colorectal cancer cell lines contain mRNAs, microRNAs

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and natural antisense RNAs, that can transfer into the human hepatoma HepG2 and lung cancer A549 cell lines
Apoptotic effect of citrus fruit extract nobiletin on lung cancer cell line A549 in vitro and in vivo
Antibody-Dependent Cellular Cytotoxicity Mediated by Cetuximab against Lung Cancer Cell Lines
Gefitinib Induces Apoptosis in the EGFR <sup>L858R</sup> Non-Small-Cell Lung Cancer Cell Line H3255
A multidrug resistance transporter from human MCF-7 breast cancer cells
Cloning of cDNA sequences of hormone-regulated genes from the MCF-7 human breast cancer cell line
Induction of apoptosis in breast cancer cells MDA-MB-231 by genistein
[6]-Gingerol inhibits metastasis of MDA-MB-231 human breast cancer cells
In vitro chemoresistance profile and expression/function of MDR associated proteins in resistant cell lines derived from CCRF-CEM, K562, A549 and MDA MB 231 parental cells.
The Bisphosphonate Ibandronate Promotes Apoptosis in MDA-MB-231 Human Breast Cancer Cells in Bone Metastases
Saturated Fatty Acid-induced Apoptosis in MDA-MB-231 Breast Cancer Cells A ROLE FOR CARDIOLIPIN
Adiponectin induces growth arrest and apoptosis of MDA-MB-231 breast cancer cell
Anti-RhoA and Anti-RhoC siRNAs Inhibit the Proliferation and Invasiveness of MDA-MB-231 Breast Cancer Cells <i>in Vitro</i> and <i>in Vivo</i>
The state of the p53 and retinoblastoma genes in human cervical carcinoma cell lines.
Flavonoid baicalein suppresses adhesion, migration and invasion of MDA-MB-231 human breast cancer cells
Anti-proliferative effects of carvacrol on a human metastatic breast cancer cell line, MDA-MB 231
Cytotoxicity of Biologically Synthesized Silver Nanoparticles in MDA-MB-231 Human Breast Cancer Cells
Quercetin-induced apoptosis acts through mitochondrial- and caspase-3-dependent pathways in human breast cancer MDA-MB-231 cells
The preparation and <i>in vitro</i> antiproliferative activity of phthalimide based ketones on MDAMB-231 and SKHep-1 human carcinoma cell lines
Adiponectin mediates an antiproliferative response in human MDA-MB 231 breast cancer cells
Epidermal Growth Factor Promotes MDA-MB-231 Breast Cancer Cell Migration through a Phosphatidylinositol 3'-Kinase and Phospholipase C-dependent Mechanism
Mechanisms of omega-3 fatty acid-induced growth inhibition in MDA-MB-231 human breast cancer cells
A BoneSeeking Clone Exhibits Different Biological Properties from the MDA-MB-231 Parental Human Breast Cancer Cells and a Brain-Seeking Clone <i>In Vivo</i> and <i>In Vitro</i>
Phytosterols Reduce <i>In Vitro</i> Metastatic Ability of MDA-MB-231 Human Breast Cancer Cells
Three-dimensional spheroid culture targeting versatile tissue bioassays using a PDMS-based hanging drop array