

Chair for DNA Research_List of Publications from 2009 to 2026	
Title of the Research	
2009	
1.	Regulatory elements in the 5'region of 16SrRNA gene of <i>Bacillus</i> sp. strain SJ-101. DOI: 10.6026/97320630003375
2.	Molecular diagnostics and phylogenetic analysis of <i>Candidatus phytoplasma asteris</i> (16Srl-Aster yellow group) infecting banana (<i>Musa</i> spp.). doi: 10.5897/AJB09.1046
3.	Production of alkaline protease and larvicidal biopesticides by an Egyptian <i>Bacillus sphaericus</i> isolate. https://doi.org/10.5897/AJB2009.000-9380
4.	Evolutionary relationship and species separation of four morphologically similar stichotrichous ciliates (Protozoa, Ciliophora) DOI: 10.1016/j.pnsc.2008.05.033
5.	Phylogeny of six oligohymenophoreans (Protozoa, Ciliophora) inferred from small subunit rRNA gene sequences. doi: 10.1111/j.1463-6409.2008.00371.x
6.	Reconsideration of the phylogenetic positions of three stichotrichous genera <i>Holosticha</i> , <i>Anteholosticha</i> and <i>Pseudokeronopsis</i> (Spirotrichea: Ciliophora) inferred from complete SSU rRNA gene sequences. DOI: 10.1016/j.pnsc.2008.06.027
7.	Further Consideration of the Phylogeny of Some "Traditional" Heterotrichs (Protista, Ciliophora) of Uncertain Affinities, Based on New Sequences of the Small Subunit rRNA Gene. DOI: 10.1111/j.1550-7408.2009.00391.x .
8.	Phylogenetic investigation on five genera of tintinnid ciliates (Ciliophora, Choreotrichia), based on the small subunit ribosomal RNA gene sequences. DOI: 10.1016/j.pnsc.2008.11.011
9.	Phylogenetic analyses suggest that <i>Psammomitra</i> (Ciliophora, Urostylida) should represent an urostylid family, based on small subunit rRNA and alpha-tubulin gene sequence information. https://aquila.usm.edu/fac_pubs/1289
10.	First morpho-molecular identification of <i>Rhizoctonia solani</i> AG-7 from potato tuber-borne sclerotium in Saudi Arabia
11.	Regulatory elements in the 5 region of 16SrRNA gene of <i>Bacillus</i> sp. strain SJ-101. DOI: 10.6026/97320630003375
12.	Production of alkaline protease and larvicidal biopesticides by an Egyptian <i>Bacillus sphaericus</i> isolate. DOI: 10.5897/AJB2009.000-9380
13.	Assessment of methyl thiophanate-Cu (II) induced DNA damage in human lymphocytes. DOI: 10.1016/j.tiv.2009.04.017
2010	
14.	First morphogenetic identification of the fungal pathogen <i>Colletotrichum musae</i> (Phyllachoraceae) from imported bananas in Saudi Arabia. DOI: 10.4238/vol9-4gmr972
15.	Methyl thiophanate as a DNA minor groove binder produces MT-Cu(II)-DNA ternary complex preferably with AT rich region for initiation of DNA damage. DOI: 10.1016/j.ijbiomac.2010.03.017
16.	Association of dopamine DA-D2 receptor in rotenone-induced cytotoxicity in PC12 cells. DOI: 10.1177/0748233710377776
17.	Production of antimicrobial silver nanoparticles in water extracts of the fungus <i>Amylomyces rouxii</i> strain KSU-09. DOI: 10.1016/j.biortech.2010.06.065

18.	An efficient method for DNA extraction from Cladosporioid fungi. DOI: 10.4238/vol9-4gmr936
19.	Protective potential 17 β -estradiol protects PC12 cells against co-exposure of known neurotoxicants- 4-hydroxynonenal and 6-hydroxydopamine. DOI: 10.1177/0960327110382130
20.	Fungicide methyl thiophanate binding at sub-domain IIA of human serum albumin triggers conformational change and protein damage. DOI: 10.1016/j.ijbiomac.2010.03.020
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21.	Biodegradation of isoproturon using a novel Pseudomonas aeruginosa strain JS-11 as a multi-functional bioinoculant of environmental significance. DOI: 10.1016/j.jhazmat.2010.09.110
22.	Synthesis of stable cadmium sulfide nanoparticles using surfactin produced by Bacillus amyloliquefaciens strain. DOI: 10.1016/j.colsurfb.2011.02.030
23.	Characterization of Sunn hemp begomovirus and its geographical origin based on in-silico structural and functional analysis of recombinant coat protein. DOI: 10.5897/AJB10.1212
24.	Assessment of MCF-7 cells as an In Vitro model system for the evaluation of chemical oxidative stressors. DOI: 10.5897/AJB10.2080
25.	Preferential binding of insecticide phorate with sub-domain IIA of human serum albumin induces protein damage and its toxicological significance. DOI: 10.1016/j.fct.2011.04.028
26.	Hepatoprotective effects of vitamin E/selenium against malathion-induced injuries on the antioxidant status and apoptosis-related gene expression in rats. DOI: 10.2131/jts.36.285
27.	A validation study comparing the sensitivity and specificity of the new Dr. KSU H1N1 RT-PCR kit with real-time RT-PCR for diagnosing influenza A (H1N1). DOI: 10.4103/0256-4947.83212
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28.	Butachlor induced dissipation of mitochondrial membrane potential, oxidative DNA damage and necrosis in human peripheral blood mononuclear cells. DOI: 10.1016/j.tox.2012.07.014
29.	Mancozeb-induced genotoxicity and apoptosis in cultured human lymphocytes. DOI: 10.1016/j.lfs.2011.12.013
30.	Cytotoxic and necrotic responses in human amniotic epithelial (WISH) cells exposed to organophosphate insecticide phorate. DOI: 10.1016/j.mrgentox.2012.01.001
31.	Fabrication, growth mechanism and antibacterial activity of ZnO micro-spheres prepared via solution process. DOI: 10.1016/j.biombioe.2012.01.005
32.	Titanium dioxide nanoparticles induced cytotoxicity, oxidative stress and DNA damage in human amnion epithelial (WISH) cells. DOI: 10.1016/j.tiv.2011.12.011
33.	Phorate-induced oxidative stress, DNA damage and transcriptional activation of p53 and caspase genes in male Wistar rats. DOI: 10.1016/j.taap.2011.12.006
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34.	CCL21 and NOS2 signaling to induce mitochondrial dependent intrinsic apoptotic pathway in WISH cells. DOI: 10.1016/j.taap.2013.09.001
35.	Ribosylation of bovine serum albumin induces ROS accumulation and cell death in cancer line (MCF-7). DOI: 10.1007/s00249-013-0929-6
36.	Microwave assisted hydrothermal synthesis of mesoporous SnO ₂ nanoparticles for ethanol sensing and degradation. DOI: 10.1007/s10854-013-1062-0
37.	Synthesis of thermally stable monodispersed Au@SnO ₂ core-shell structure nanoparticles by a sonochemical technique for detection and degradation of acetaldehyde. DOI: 10.1039/c3ay26549h
38.	ZnO Nanoparticles Induces Cell Death in Malignant Human T98G Gliomas, KB and Non-Malignant HEK Cells DOI: 10.1166/jbn.2013.1652
39.	ZnO Nanoparticles Induce Oxidative Stress in Cloudman S91 Melanoma Cancer Cells. DOI: 10.1166/jbn.2013.1593

40.	Zinc ferrite nanoparticles activate IL-1b, NFKB1, CCL21 and NOS2 signaling to induce mitochondrial dependent intrinsic apoptotic pathway in WISH cells. DOI: 10.1016/j.taap.2013.09.001
2014	
41.	Cytotoxicity Assessments of Portulaca oleracea and Petroselinum sativum Seed Extracts on Human Hepatocellular Carcinoma Cells (HepG2). DOI: 10.7314/apjcp.2014.15.16.6633
42.	Synthesis, characterization and toxicological evaluation of iron oxide nanoparticles in human lung alveolar epithelial cells. DOI: 10.1016/j.colsurfb.2014.06.064
43.	ZnO nanoparticles induced oxidative stress and apoptosis in HepG2 and MCF-7 cancer cells and their antibacterial activity. DOI: 10.1016/j.colsurfb.2014.02.038
44.	Gum arabic capped-silver nanoparticles inhibit biofilm formation by multi-drug resistant strains of Pseudomonas aeruginosa. DOI: 10.1002/jobm.201300748
45.	Statistical analysis of gold nanoparticle-induced oxidative stress and apoptosis in myoblast (C2C12) cells. DOI: 10.1016/j.colsurfb.2014.10.012
46.	Diversity of bacteria and polyketide synthase associated with marine sponge Haliclona sp. DOI: 10.1007/s13213-013-0652-7
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47.	Multimodal imaging probe for targeting cancer cells using uMUC-1 aptamer. DOI: 10.1016/j.colsurfb.2015.09.004
48.	Molybdenum nanoparticles-induced cytotoxicity, oxidative stress, G2/M arrest, and DNA damage in mouse skin fibroblast cells (L929). DOI: 10.1016/j.colsurfb.2014.11.014
49.	Sperm DNA-mediated reduction of nonspecific fluorescence during cellular imaging with quantum dots. DOI: 10.1039/c5cc04503g
50.	Rhamnolipids functionalized Ag NPs-Induced Oxidative Stress and Modulation of Toxicity Pathway Genes in cultured MCF-7 Cells DOI: 10.1016/j.colsurfb.2015.05.034
51.	Novel All Trans-Retinoic Acid Derivatives: Cytotoxicity, Inhibition of Cell Cycle Progression and Induction of Apoptosis in Human Cancer Cell Lines. DOI: 10.3390/molecules20058181
52.	Utilization of photocatalytic ZnO nanoparticles for deactivation of safranin dye and their applications for statistical analysis. DOI: 10.1016/j.physe.2015.01.005
53.	Portulaca oleracea Seed Oil Exerts Cytotoxic Effects on Human Liver Cancer (HepG2) and Human Lung Cancer (A-549) Cell Lines. DOI: 10.7314/apjcp.2015.16.8.3383 .
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55.	Microwave Accelerated Green Synthesis of Stable Silver Nanoparticles with Eucalyptus globulus Leaf Extract and Their Antibacterial and Anti biofilm Activity on Clinical Isolates. DOI: 10.1371/journal.pone.0131178
56.	Quantum dot-based molecular beacon to monitor intracellular microRNAs. DOI: 10.3390/s150612872
57.	Simultaneous Imaging of Two Different Cancer Biomarkers Using Aptamer-Conjugated Quantum Dots. DOI: 10.3390/s150408595
58.	Bioimaging of transcriptional activity of microRNA124a during neurogenesis. DOI: 10.1007/s10529-015-1912-3
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61.	Detection of intracellular microRNA using a self-assembling magnetic resonance beacon. DOI: 10.14800/rd.705
62.	CoO Thin Nanosheets Exhibit Higher Antimicrobial Activity Against Tested Gram-positive Bacteria Than Gram-negative Bacteria. DOI: 10.9713/kcer.2015.53.5.565
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63.	Dexrazoxane mitigates epirubicin-induced genotoxicity in mice bone marrow cells. DOI: 10.1093/mutage/gev065
64.	Antibacterial studies and statistical design set data of quasi zinc oxide nanostructures. DOI: 10.1039/c6ra05297e
65.	Zinc oxide quantum dots: multifunctional candidates for arresting C2C12 cancer cells and their role towards caspase 3 and 7 genes. DOI: 10.1039/c5ra25668b
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67.	Effect of Praseodymium on the Characteristics of Nano-ZnO Towards Organophosphate as a Nano-Electrochemical Device. DOI: 10.1166/jno.2016.1850
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73.	In Vitro Cytotoxicity of Mesoporous SiO ₂ @Eu(OH) ₃ Core-Shell Nanospheres in MCF-7. DOI: 10.1155/2016/7691861
74.	Verbesina encelioides: cytotoxicity, cell cycle arrest, and oxidative DNA damage in human liver cancer (HepG2) cell line. DOI: 10.1186/s12906-016-1106-0
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121.	Neuroprotective Effects of Withania somnifera on 4-Hydroxynonenal Induced Cell Death in Human Neuroblastoma SH-SY5Y Cells Through ROS Inhibition and Apoptotic Mitochondrial Pathway. DOI: 10.1007/s11064-020-03146-4
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123.	Cytotoxic and molecular assessment against breast (MCF-7) cancer cells with cobalt oxide nanoballs. DOI: 10.1016/j.jksus.2021.101467

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158.	Cytotoxic evaluation with aluminum oxide (Al ₂ O ₃) nanoparticles in human cancer cells. DOI: 10.25259/JKSUS_289_2024
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