

Seung Yong Hwang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6724641/publications.pdf>

Version: 2024-02-01

80
papers

865
citations

567281

15
h-index

580821

25
g-index

82
all docs

82
docs citations

82
times ranked

1241
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Lipid metabolic effect of Korean red ginseng extract in mice fed on a high-fat diet. <i>Journal of the Science of Food and Agriculture</i> , 2012, 92, 388-396. | 3.5 | 77 |
| 2 | Microchip-based multiplex electro-immunosensing system for the detection of cancer biomarkers. <i>Electrophoresis</i> , 2008, 29, 3466-3476. | 2.4 | 62 |
| 3 | A novel microfluidic biosensor based on an electrical detection system for alpha-fetoprotein. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1319-1325. | 10.1 | 58 |
| 4 | miRNA regulation of cytotoxic effects in mouse Sertoli cells exposed to nonylphenol. <i>Reproductive Biology and Endocrinology</i> , 2011, 9, 126. | 3.3 | 45 |
| 5 | Separation of Progressive Motile Sperm from Mouse Semen Using On-chip Chemotaxis. <i>Analytical Sciences</i> , 2012, 28, 27-32. | 1.6 | 43 |
| 6 | Genetic heterogeneity of actionable genes between primary and metastatic tumor in lung adenocarcinoma. <i>BMC Cancer</i> , 2016, 16, 27. | 2.6 | 30 |
| 7 | Multi-omics approaches for understanding environmental exposure and human health. <i>Molecular and Cellular Toxicology</i> , 2019, 15, 1-7. | 1.7 | 29 |
| 8 | A relationship between miRNA and gene expression in the mouse Sertoli cell line after exposure to bisphenol A. <i>Biochip Journal</i> , 2010, 4, 75-81. | 4.9 | 28 |
| 9 | Gene Expression Analysis of Peroxisome Proliferators- and Phenytoin-Induced Hepatotoxicity Using cDNA Microarray. <i>Journal of Veterinary Medical Science</i> , 2004, 66, 1329-1333. | 0.9 | 25 |
| 10 | Toxicology study with microRNA. <i>Molecular and Cellular Toxicology</i> , 2014, 10, 127-134. | 1.7 | 23 |
| 11 | Comparative study between Next Generation Sequencing Technique and identification of microarray for Species Identification within blended food products. <i>Biochip Journal</i> , 2012, 6, 354-361. | 4.9 | 18 |
| 12 | Impact of miRNA deregulation on mRNA expression profiles in response to environmental toxicant, nonylphenol. <i>Molecular and Cellular Toxicology</i> , 2011, 7, 259-269. | 1.7 | 17 |
| 13 | Microfluidic biochips for simple impedimetric detection of thrombin based on label-free DNA aptamers. <i>Biochip Journal</i> , 2017, 11, 109-115. | 4.9 | 17 |
| 14 | POCT Detection of 14 Respiratory Viruses Using Multiplex RT-PCR. <i>Biochip Journal</i> , 2021, 15, 371-380. | 4.9 | 17 |
| 15 | Microfluidic multiplex biochip based on a point-of-care electrochemical detection system for matrix metalloproteinases. <i>Journal of Electroanalytical Chemistry</i> , 2015, 756, 118-123. | 3.8 | 16 |
| 16 | A new approach of digital PCR system for non-invasive prenatal screening of trisomy 21. <i>Clinica Chimica Acta</i> , 2018, 476, 75-80. | 1.1 | 15 |
| 17 | Development of a low-density DNA microarray for diagnosis of target-site mutations of pyrethroid and organophosphate resistance mutations in the whitefly <i>Bemisia tabaci</i> . <i>Pest Management Science</i> , 2011, 67, 1541-1548. | 3.4 | 14 |
| 18 | Integrated analysis of multi-omics data on epigenetic changes caused by combined exposure to environmental hazards. <i>Environmental Toxicology</i> , 2021, 36, 1001-1010. | 4.0 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | A DNA microarray for species identification of cetacean animals in Korean water. <i>Biochip Journal</i> , 2010, 4, 197-203. | 4.9 | 12 |
| 20 | Fluorescence melting curve analysis using self-quenching dual-labeled peptide nucleic acid probes for simultaneously identifying multiple DNA sequences. <i>Analytical Biochemistry</i> , 2015, 484, 143-147. | 2.4 | 12 |
| 21 | Association analysis of toluene exposure time with high-throughput mRNA expressions and methylation patterns using in vivo samples. <i>Environmental Research</i> , 2016, 146, 59-64. | 7.5 | 12 |
| 22 | Methylation quantitative trait loci analysis in Korean exposome study. <i>Molecular and Cellular Toxicology</i> , 2020, 16, 175-183. | 1.7 | 12 |
| 23 | A DNA Microarray for Identification of Selected Korean Birds Based on Mitochondrial Cytochrome c Oxidase I Gene Sequences. <i>Molecules and Cells</i> , 2010, 30, 295-302. | 2.6 | 11 |
| 24 | Identification of genetic/epigenetic biomarkers for supporting decision of VOCs exposure. <i>Biochip Journal</i> , 2013, 7, 1-5. | 4.9 | 11 |
| 25 | Epigenetic Regulation of miR-22 in a BPA-exposed Human Hepatoma Cell. <i>Biochip Journal</i> , 2015, 9, 76-84. | 4.9 | 11 |
| 26 | Gene expression profiling of HepG2 cells treated with endocrine disrupting chemicals using the HazChem human array V3. <i>Molecular and Cellular Toxicology</i> , 2010, 6, 57-63. | 1.7 | 10 |
| 27 | Environmental risk assessment of toxicity exposure: High-throughput expression profiling. <i>Biochip Journal</i> , 2016, 10, 74-80. | 4.9 | 10 |
| 28 | DNA chip for species identification of Korean freshwater fish: A case study. <i>Biochip Journal</i> , 2011, 5, 72-77. | 4.9 | 9 |
| 29 | Species identification of filefishes (Monacanthidae) using DNA microarray in Korean marketplace. <i>Biochip Journal</i> , 2011, 5, 229-235. | 4.9 | 9 |
| 30 | Analysis of microRNA and gene expression profiling in triazole fungicide-treated HepG2 cell line. <i>Toxicology</i> , 2013, 303, 94-98. | 4.2 | 9 |
| 31 | Innate immune response gene expression profiles in specific pathogen-free chickens infected with avian influenza virus subtype H9N2. <i>Biochip Journal</i> , 2013, 7, 393-398. | 4.9 | 9 |
| 32 | Application of the emerging technologies in toxicogenomics: An overview. <i>Biochip Journal</i> , 2016, 10, 288-296. | 4.9 | 9 |
| 33 | Identification of time-dependent biomarkers and effects of exposure to volatile organic compounds using high-throughput analysis. <i>Environmental Toxicology</i> , 2016, 31, 1563-1570. | 4.0 | 9 |
| 34 | Development of a DNA chip to identify the place of origin of hairtail species. <i>Biochip Journal</i> , 2013, 7, 136-142. | 4.9 | 8 |
| 35 | Probe-Based Fluorescence Melting Curve Analysis for Differentiating <i>Larimichthys polyactis</i> and <i>Larimichthys crocea</i> . <i>Food Analytical Methods</i> , 2016, 9, 2036-2041. | 2.6 | 8 |
| 36 | Integrative analyses of differential gene expression and DNA methylation of ethylbenzene-exposed workers. <i>Biochip Journal</i> , 2015, 9, 259-267. | 4.9 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Application of fluorescence melting curve analysis for dual DNA detection using single peptide nucleic acid probe. <i>Biotechnology Progress</i> , 2015, 31, 730-735. | 2.6 | 7 |
| 38 | Analysis of toxicity of tetrabutyltin: comparing with EDC chemicals. <i>Molecular and Cellular Toxicology</i> , 2011, 7, 95-101. | 1.7 | 6 |
| 39 | Functional analysis of endocrine disruptor pesticides affected transcriptome and microRNA regulation in human hepatoma cell line. <i>Molecular and Cellular Toxicology</i> , 2014, 10, 393-400. | 1.7 | 6 |
| 40 | Rapid Subtyping and Pathotyping of Avian Influenza Virus using Chip-based RT-PCR. <i>Biochip Journal</i> , 2019, 13, 333-340. | 4.9 | 6 |
| 41 | Genomic comparison of insecticides and herbicide in human hepatoma (HepG2) cell line. <i>Molecular and Cellular Toxicology</i> , 2010, 6, 378-383. | 1.7 | 5 |
| 42 | Development of DNA chip for jellyfish verification from South Korea. <i>Biochip Journal</i> , 2011, 5, 375-382. | 4.9 | 5 |
| 43 | Development of a DNA microarray for species identification of quarantine aphids. <i>Pest Management Science</i> , 2013, 69, 1399-1406. | 3.4 | 5 |
| 44 | Development of molecular detection kit for <i>Larimichthys crocea</i> and <i>Larimichthys polyactis</i> . <i>Biochip Journal</i> , 2014, 8, 148-153. | 4.9 | 5 |
| 45 | Identification of potential biomarkers for xylene exposure by microarray analyses of gene expression and methylation. <i>Molecular and Cellular Toxicology</i> , 2016, 12, 15-20. | 1.7 | 5 |
| 46 | Genotyping of velvet antlers for identification of country of origin using mitochondrial DNA and fluorescence melting curve analysis with locked nucleic acid probes. <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2016, 27, 2641-2644. | 0.7 | 5 |
| 47 | Transcriptome dynamics of alternative splicing events revealed early phase of apoptosis induced by methylparaben in H1299 human lung carcinoma cells. <i>Archives of Toxicology</i> , 2020, 94, 127-140. | 4.2 | 5 |
| 48 | Understanding Confounding Effects of Blood Handling Strategies on RNA Quality and Transcriptomic Alteration Using RNA Sequencing. <i>Biochip Journal</i> , 2021, 15, 187. | 4.9 | 5 |
| 49 | Prenatal Exposure to Heavy Metals Affects Gestational Age by Altering DNA Methylation Patterns. <i>Nanomaterials</i> , 2021, 11, 2871. | 4.1 | 5 |
| 50 | Analysis of multi-omics data on the relationship between epigenetic changes and nervous system disorders caused by exposure to environmentally harmful substances. <i>Environmental Toxicology</i> , 2022, 37, 802-813. | 4.0 | 5 |
| 51 | Array2KEGG: Web-based tool of KEGG pathway analysis for gene expression profile. <i>Biochip Journal</i> , 2010, 4, 134-140. | 4.9 | 4 |
| 52 | Development of DNA chip for verification of 25 microalgae collected from southern coastal region in Korea. <i>Biochip Journal</i> , 2012, 6, 325-334. | 4.9 | 4 |
| 53 | mRNA-centric semantic modeling for finding molecular signature of trace chemical in human blood. <i>Molecular and Cellular Toxicology</i> , 2012, 8, 35-41. | 1.7 | 4 |
| 54 | Rapid hemagglutinin subtyping of novel avian-origin influenza A(H7N9) virus using a diagnostic microarray. <i>Biochip Journal</i> , 2014, 8, 55-59. | 4.9 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Genotoxic effects of diethylstilbestrol on mouse Sertoli TM4 cells using gene expression profiling. <i>Biochip Journal</i> , 2010, 4, 49-56. | 4.9 | 3 |
| 56 | Simultaneous subtyping and pathotyping of the 2010-2011 South Korean HPAI outbreak strain by using a diagnostic microarray. <i>Biochip Journal</i> , 2011, 5, 369-374. | 4.9 | 3 |
| 57 | Development of Electrochemical Microbiochip for the Biological Diagnosis of <i>Neisseria gonorrhoeae</i> . <i>Analytical Sciences</i> , 2013, 29, 1203-1208. | 1.6 | 3 |
| 58 | Proteomic analysis of pancreas in miniature pigs according to developmental stages using two-dimensional electrophoresis and matrix-assisted laser desorption/ionization-time of flight mass spectrometry. <i>Laboratory Animal Research</i> , 2014, 30, 1. | 2.5 | 3 |
| 59 | Development of DNA microarray for species identification of eels (<i>Anguilliformes</i> and <i>Myxiniformes</i>) in Korean fisheries markets. <i>Biochip Journal</i> , 2014, 8, 310-316. | 4.9 | 3 |
| 60 | New application methods for chromosomal abnormalities screening test using digital PCR. <i>Biochip Journal</i> , 2015, 9, 339-352. | 4.9 | 3 |
| 61 | Characterization of human short tandem repeats (STRs) for individual identification using the Ion Torrent. <i>Biochip Journal</i> , 2015, 9, 164-172. | 4.9 | 3 |
| 62 | Sample management: a primary critical starting point for successful omics studies. <i>Molecular and Cellular Toxicology</i> , 2022, 18, 141-148. | 1.7 | 3 |
| 63 | Covalent linkage of IL-12 and ovalbumin confines the effects of IL-12 to ovalbumin-specific immune responses. <i>Archives of Pharmacal Research</i> , 1997, 20, 396-403. | 6.3 | 2 |
| 64 | The study of diethylstilbestrol toxic effect in the mouse sertoli cell line by comparison of miRNA and mRNA expression. <i>Toxicology and Environmental Health Sciences</i> , 2010, 2, 245-250. | 2.1 | 2 |
| 65 | Differential expression of cell cycle related genes in PAH-exposed human liver cells. <i>Biochip Journal</i> , 2010, 4, 30-34. | 4.9 | 2 |
| 66 | An oligonucleotide microarray to detect pathogens causing a sexually transmitted disease. <i>Biochip Journal</i> , 2010, 4, 105-109. | 4.9 | 2 |
| 67 | Array2GO: a simple web-based tool to search gene ontology for analysis of multi genes expression. <i>Biochip Journal</i> , 2010, 4, 329-335. | 4.9 | 2 |
| 68 | Prediction of VOCs based on functional analysis by decision supporting system. <i>Molecular and Cellular Toxicology</i> , 2013, 9, 277-284. | 1.7 | 2 |
| 69 | Multiplex genotyping based on the melting temperature of a single locked nucleic acid probe. <i>Analytical Biochemistry</i> , 2015, 491, 72-74. | 2.4 | 2 |
| 70 | Differentiation of <i>Scomber japonicus</i> from <i>Scomber scombrus</i> by using a single locked nucleic acid probe. <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2017, 28, 379-382. | 0.7 | 2 |
| 71 | Customized multiplexing SNP panel for Korean-specific DNA phenotyping in forensic applications. <i>Genes and Genomics</i> , 2017, 39, 723-732. | 1.4 | 2 |
| 72 | Identification of time-dependent biomarkers by EndoTox Array in cells exposed to nonylphenol. <i>Molecular and Cellular Toxicology</i> , 2011, 7, 399-403. | 1.7 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Regulation of gene expression in mouse germ cells upon exposure to tetrabutyltin. Toxicology and Environmental Health Sciences, 2011, 3, 179-184. | 2.1 | 1 |
| 74 | Development of simple and rapid HLA-C genotyping method using an oligonucleotide microarray. Biochip Journal, 2011, 5, 255-264. | 4.9 | 1 |
| 75 | Development of rheumatoid arthritis specific HLA-DRB1 genotyping microarray. Biochip Journal, 2014, 8, 187-198. | 4.9 | 1 |
| 76 | High specific genotyping method using short target probe and helper probe. Molecular and Cellular Probes, 2016, 30, 273-276. | 2.1 | 1 |
| 77 | Genomic Susceptibility Analysis for Atopy Disease Using Cord Blood DNA in a Small Cohort. Biochip Journal, 2018, 12, 304-308. | 4.9 | 1 |
| 78 | Simultaneous detection of SARS-CoV-2 and identification of spike D614G mutation using point-of-care real-time polymerase chain reaction. Journal of Virological Methods, 2022, 304, 114513. | 2.1 | 1 |
| 79 | Identification of squid species by melting temperature shifts on fluorescence melting curve analysis (FMCA) using single dual-labeled probe. Proceedings of SPIE, 2017, , . | 0.8 | 0 |
| 80 | First Korean case of factor V Leiden mutation in pregnant woman with a history of recurrent pregnancy loss. Journal of Genetic Medicine, 2019, 16, 23-26. | 0.2 | 0 |