

Takashi Yagi

List of Publications by Year in descending order

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108
papers

2,622
citations

172457

29
h-index

233421

45
g-index

109
all docs

109
docs citations

109
times ranked

2718
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple roles of Rev3, the catalytic subunit of pol $\hat{\text{A}}$ in maintaining genome stability in vertebrates. <i>EMBO Journal</i> , 2003, 22, 3188-3197.	7.8	183
2	Identification of Small Molecule Proliferating Cell Nuclear Antigen (PCNA) Inhibitor That Disrupts Interactions with PIP-box Proteins and Inhibits DNA Replication. <i>Journal of Biological Chemistry</i> , 2012, 287, 14289-14300.	3.4	109
3	Genotoxicity of multi-walled carbon nanotubes in both <i>in vitro</i> and <i>in vivo</i> assay systems. <i>Nanotoxicology</i> , 2013, 7, 452-461.	3.0	92
4	Molecular analysis of mutations induced by acrolein in human fibroblast cells using supF shuttle vector plasmids. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 1998, 417, 65-73.	1.7	85
5	Mutated p21WAF1/CIP1/SDI1 lacking CDK-inhibitory activity fails to prevent apoptosis in human colorectal carcinoma cells. <i>Oncogene</i> , 1998, 16, 705-712.	5.9	83
6	Genotoxicity of nano/microparticles in <i>in vitro</i> micronuclei, <i>in vivo</i> comet and mutation assay systems. <i>Particle and Fibre Toxicology</i> , 2009, 6, 23.	6.2	83
7	Modulation of benzo[a]pyrene's DNA adduct formation by CYP1 inducer and inhibitor. <i>Genes and Environment</i> , 2017, 39, 14.	2.1	80
8	Identification of three major DNA adducts formed by the carcinogenic air pollutant 3-nitrobenzanthrone in rat lung at the C8 and N2 position of guanine and at the N6 position of adenine. <i>International Journal of Cancer</i> , 2006, 118, 2139-2146.	5.1	76
9	Detection of Genistein as an Estrogenic Contaminant of River Water in Osaka. <i>Environmental Science & Technology</i> , 2004, 38, 6424-6429.	10.0	67
10	Characterization of molecular defects in xeroderma pigmentosum group F in relation to its clinically mild symptoms. <i>Human Molecular Genetics</i> , 1998, 7, 969-974.	2.9	64
11	Construction of reporter yeasts for mouse aryl hydrocarbon receptor ligand activity. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2003, 540, 99-105.	1.7	63
12	Phylogeny of Japanese Papilionid Butterflies Inferred from Nucleotide Sequences of the Mitochondrial ND5 Gene. <i>Journal of Molecular Evolution</i> , 1999, 48, 42-48.	1.8	61
13	Genotoxicity of formaldehyde: molecular basis of DNA damage and mutation. <i>Frontiers in Environmental Science</i> , 2014, 2, .	3.3	57
14	Molecular analysis of mutations induced by 2-chloroacetaldehyde, the ultimate carcinogenic form of vinyl chloride, in human cells using shuttle vectors. <i>Carcinogenesis</i> , 1995, 16, 2389-2394.	2.8	56
15	Comparison of repair of O6-methylguanine produced by N-methyl-N'-nitro-N-nitrosoguanidine in mouse and human cells. <i>Carcinogenesis</i> , 1984, 5, 593-600.	2.8	47
16	Repair of ultraviolet radiation damage in xeroderma pigmentosum cells belonging to complementation group F. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1981, 80, 381-388.	1.0	46
17	EVOLUTION OF MIMICRY PATTERNS IN <i>METRIORRHYNCHUS</i> (COLEOPTERA: LYCIDAE): THE HISTORY OF DISPERSAL AND SPECIATION IN SOUTHEAST ASIA. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 39-52.	2.3	43
18	A low content of ERCC1 and a 120 kDa protein is a frequent feature of group F xeroderma pigmentosum fibroblast cells. <i>Mutagenesis</i> , 1997, 12, 41-44.	2.6	41

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19	Growth Retardation of Paramecium and Mouse Cells by Shielding Them from Background Radiation. <i>Journal of Radiation Research</i> , 2012, 53, 404-410.	1.6	39
20	Validation of a new yeast-based reporter assay consisting of human estrogen receptors $\text{ER}\alpha/\text{ER}\beta$ and coactivator SRC-1: Application for detection of estrogenic activity in environmental samples. <i>Environmental Toxicology</i> , 2009, 24, 513-521.	4.0	38
21	Establishment by SV40 transformation and characteristics of a cell line of xeroderma pigmentosum belonging to complementation group F. <i>Mutation Research - DNA Repair Reports</i> , 1983, 112, 59-66.	1.8	36
22	Involvement of cyclin-dependent kinases in doxorubicin-induced apoptosis in human tumor cells. <i>Molecular Carcinogenesis</i> , 2000, 29, 1-7.	2.7	36
23	High Prevalence of Mutations in the p53 Gene in Poorly Differentiated Squamous Cell Carcinomas in Xeroderma Pigmentosum Patients. <i>Journal of Investigative Dermatology</i> , 1995, 105, 399-401.	0.7	34
24	Molecular systematics and evolution of the <i>Apollonia</i> butterflies of the genus <i>Parnassius</i> (Lepidoptera: Pieridae). <i>Molecular Phylogenetics and Evolution</i> , 2000, 14, 100-110.	2.2	34
25	Genotoxicity and reactive oxygen species production induced by magnetite nanoparticles in mammalian cells. <i>Journal of Toxicological Sciences</i> , 2013, 38, 503-511.	1.5	34
26	Establishment of yeast reporter assay systems to detect ligands of thyroid hormone receptors $\text{TR}\alpha$ and $\text{TR}\beta$. <i>Toxicology in Vitro</i> , 2010, 24, 638-644.	2.4	33
27	DNA repair ability of cultured cells derived from mouse embryos in comparison with human cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1982, 96, 89-98.	1.0	31
28	DNA repair in Bloom's syndrome fibroblasts after UV irradiation or treatment with mitomycin C. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1981, 80, 213-219.	1.0	30
29	Postlabelling analysis of DNA adducts formed in human hepatoma cells treated with 3-nitrobenzanthrone. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2000, 470, 133-139.	1.7	30
30	Characterization of p53 gene mutations in basal-cell carcinomas: Comparison between sun-exposed and less-exposed skin areas. <i>Journal of Investigative Dermatology</i> , 1996, 65, 778-780.		28
31	Biogeography of the subspecies of <i>Parides (Byasa) alcinous</i> (Lepidoptera: Papilionidae) based on a phylogenetic analysis of mitochondrial ND5 sequences. <i>Systematic Entomology</i> , 2004, 29, 1-9.	3.9	28
32	An improved method of electroporation for introducing biologically active foreign genes into cultured mammalian cells. <i>Experimental Cell Research</i> , 1988, 178, 154-162.	2.6	26
33	Far less frequent mutations in ras genes than in the p53 gene in skin tumors of xeroderma pigmentosum patients. <i>Molecular Carcinogenesis</i> , 1994, 11, 98-105.	2.7	23
34	Mutagenic Specificity of a Derivative of 3-Nitrobenzanthrone in the λ Shuttle Vector Plasmids. <i>Chemical Research in Toxicology</i> , 1998, 11, 1468-1473.	3.3	23
35	Application of the DNA adductome approach to assess the DNA-damaging capability of in vitro micronucleus test-positive compounds. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2011, 721, 21-26.	1.7	23
36	Aberrant splicing and truncated-protein expression due to a newly identified XPA gene mutation. <i>Mutation Research DNA Repair</i> , 1996, 362, 199-208.	3.7	22

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37	Expression of a mammalian DNA photolyase confers light-dependent repair activity and reduces mutations of UV-irradiated shuttle vectors in xeroderma pigmentosum cells. <i>Mutation Research DNA Repair</i> , 1999, 435, 255-262.	3.7	22
38	Vicariant speciation due to 1.55 Ma isolation of the Ryukyu islands, Japan, based on geological and genetic data. <i>Entomological Science</i> , 2013, 16, 267-277.	0.6	22
39	UV-induced base substitution mutations in a shuttle vector plasmid propagated in group C xeroderma pigmentosum cells. <i>Mutation Research DNA Repair</i> , 1992, 273, 213-220.	3.7	21
40	Excision repair of mouse and human fibroblast cells, and a factor affecting the amount of UV-induced unscheduled DNA synthesis. <i>Mutation Research - DNA Repair Reports</i> , 1984, 132, 101-112.	1.8	20
41	Comparison of the mutations induced by p-benzoquinone, a benzene metabolite, in human and mouse cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2000, 470, 147-153.	1.7	20
42	Structural Identification of DNA Adducts Derived from 3-Nitrobenzanthrone, a Potent Carcinogen Present in the Atmosphere. <i>Chemistry - an Asian Journal</i> , 2007, 2, 1174-1185.	3.3	20
43	Dioxin suppresses benzo[a]pyrene-induced mutations and DNA adduct formation through cytochrome P450 1A1 induction and (±)-anti-benzo[a]pyrene-7,8-diol-9,10-epoxide inactivation in human hepatoma cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2013, 750, 77-85.	1.7	20
44	Molecular phylogeny of butterflies <i>Parnassius glacialis</i> and <i>P. stubbendorffii</i> at various localities in East Asia. <i>Genes and Genetic Systems</i> , 2001, 76, 229-234.	0.7	19
45	Analysis of HPRT and supF Mutations Caused by Pierisin-1, a Guanine Specific ADP-Ribosylating Toxin Derived from the Cabbage Butterfly. <i>Chemical Research in Toxicology</i> , 2003, 16, 945-952.	3.3	19
46	Genotoxicity of 3,6-dinitrobenzo[e]pyrene, a novel mutagen in ambient air and surface soil, in mammalian cells in vitro and in vivo. <i>Mutagenesis</i> , 2009, 24, 279-284.	2.6	19
47	Adduct formation and repair, and translesion DNA synthesis across the adducts in human cells exposed to 3-nitrobenzanthrone. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2013, 753, 93-100.	1.7	19
48	Mutations of p16 and p15 tumor suppressor genes and replication errors contribute independently to the pathogenesis of sporadic malignant melanoma. <i>Archives of Dermatological Research</i> , 1998, 290, 175-180.	1.9	18
49	Identification of Amino Acid Residues in the Ligand-Binding Domain of the Aryl Hydrocarbon Receptor Causing the Species-Specific Response to Omeprazole: Possible Determinants for Binding Putative Endogenous Ligands. <i>Molecular Pharmacology</i> , 2014, 85, 279-289.	2.3	18
50	Development of yeast reporter assay for screening specific ligands of retinoic acid and retinoid X receptor subtypes. <i>Journal of Pharmacological and Toxicological Methods</i> , 2014, 69, 245-252.	0.7	18
51	Construction of a Reporter Yeast Strain to Detect Estrogen Receptor Signaling through Aryl Hydrocarbon Receptor Activation. <i>Environmental Science & Technology</i> , 2008, 42, 6897-6902.	10.0	17
52	Hepatocyte Klotho regulates lipid homeostasis but not body weight in mice. <i>FASEB Journal</i> , 2016, 30, 849-862.	0.5	17
53	Phylogeny and Evolution of Butterflies of the Genus <i>Parnassius</i> : Inferences from Mitochondrial 16S and ND1 Sequences. <i>Zoological Science</i> , 2005, 22, 343-351.	0.7	16
54	Analysis of mutations caused by DNA double-strand breaks produced by a restriction enzyme in shuttle vector plasmids propagated in ataxia telangiectasia cells. <i>Mutation Research DNA Repair</i> , 1993, 294, 317-323.	3.7	15

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55	Suppression of UV-induced mutations by wild-type p53 protein in human osteosarcoma cells. <i>Mutagenesis</i> , 1997, 12, 191-194.	2.6	14
56	Comparison of mutagenic potentials and mutation spectra of benzene metabolites using supF shuttle vectors in human cells. <i>Mutagenesis</i> , 2004, 19, 91-97.	2.6	14
57	Apoptosis of Human Tumor Cells by Chemotherapeutic Anthracyclines is Enhanced by Bax Overexpression. <i>Journal of Radiation Research</i> , 1999, 40, 263-272.	1.6	13
58	DNA adduct formation in human hepatoma cells treated with 3-nitrobenzanthrone: analysis by the 32P-postlabeling method. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2007, 634, 184-191.	1.7	13
59	Omeprazole Alleviates Benzo[a]pyrene Cytotoxicity by Inhibition of CYP1A1 Activity in Human and Mouse Hepatoma Cells. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2008, 103, 468-475.	2.5	13
60	Frequencies of mutagenic translesion DNA synthesis over cisplatin-guanine intra-strand crosslinks in lacZ plasmids propagated in human cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2014, 770, 23-28.	1.7	13
61	Similarity in the molecular profile of mutations induced by UV light in shuttle vector plasmids propagated in mouse and human cells. <i>Mutagenesis</i> , 1994, 9, 73-77.	2.6	12
62	Mutagenic specificity of N-acetoxy-3-aminobenzanthrone, a major metabolically activated form of 3-nitrobenzanthrone, in shuttle vector plasmids propagated in human cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2008, 654, 82-87.	1.7	12
63	A protein from <i>Pleurotus eryngii</i> var. <i>tuoliensis</i> C.J. Mou with strong removal activity against the natural steroid hormone, estriol: Purification, characterization, and identification as a laccase. <i>Enzyme and Microbial Technology</i> , 2012, 51, 402-407.	3.2	12
64	Occurrence of xenobiotic ligands for retinoid X receptors and thyroid hormone receptors in the aquatic environment of Taiwan. <i>Marine Pollution Bulletin</i> , 2014, 85, 613-618.	5.0	12
65	Construction of sensitive reporter assay yeasts for comprehensive detection of ligand activities of human corticosteroid receptors through inactivation of CWP and PDR genes. <i>Journal of Pharmacological and Toxicological Methods</i> , 2015, 74, 41-52.	0.7	12
66	Transcription-inducing activity of natural and synthetic juvenile hormone agonists through the <i>Drosophila</i> Methoprene-tolerant protein. <i>Pest Management Science</i> , 2020, 76, 2316-2323.	3.4	12
67	Cytotoxic effects of protease inhibitors on human cells. 2. Effect of elastatinal. <i>Cancer Letters</i> , 1980, 10, 301-307.	7.2	11
68	Simple and rapid yeast reporter bioassay for dioxin screening: evaluation of the dioxin-like compounds in industrial and municipal waste incineration plants. <i>Environmental Science and Pollution Research</i> , 2013, 20, 2993-3002.	5.3	11
69	Construction of reporter gene assays using CWP and PDR mutant yeasts for enhanced detection of various sex steroids. <i>Genes and Environment</i> , 2020, 42, 20.	2.1	11
70	Molecular analysis of mutations induced by a benzene metabolite, p-benzoquinone, in mouse cells using a novel shuttle vector plasmid. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 1999, 444, 123-131.	1.7	10
71	Virtual screening identifies a novel piperazine-based insect juvenile hormone agonist. <i>Journal of Pesticide Sciences</i> , 2021, 46, 68-74.	1.4	10
72	Error-Prone and Error-Free Translesion DNA Synthesis over Site-Specifically Created DNA Adducts of Aryl Hydrocarbons (3-Nitrobenzanthrone and 4-Aminobiphenyl). <i>Toxicological Research</i> , 2017, 33, 265-272.	2.1	10

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73	Cytotoxic effects of protease inhibitors on human cells. 1. High sensitivity of xeroderma pigmentosum cells to antipain. <i>Cancer Letters</i> , 1980, 10, 199-205.	7.2	9
74	Reduced UV-induced mutations in human osteosarcoma cells stably expressing transfected wild-type p53 cDNA. <i>Cancer Letters</i> , 1998, 123, 71-76.	7.2	9
75	In Vitro and In Vivo Genotoxicity Induced by Fullerene (C60) and Kaolin. <i>Genes and Environment</i> , 2011, 33, 14-20.	2.1	9
76	New reporter gene assays for detecting natural and synthetic molting hormone agonists using yeasts expressing ecdysone receptors of various insects. <i>FEBS Open Bio</i> , 2017, 7, 995-1008.	2.3	9
77	A revision of <i>Metriorrhynchus</i> from the Philippines with molecular evidence of an Australian origin of the Oriental <i>Metriorrhynchus</i> fauna (Coleoptera: Lycidae). <i>European Journal of Entomology</i> , 2006, 103, 115-126.	1.2	9
78	Cotransfection of plasmids with ras and myc oncogenes to diploid cells derived from rodent fetuses: Alteration of neoplastic transformation frequency depending on the gestation period. <i>Molecular Carcinogenesis</i> , 1989, 1, 222-228.	2.7	8
79	Sensitivity of group F xeroderma pigmentosum cells to UV and mitomycin C relative to levels of XPF and ERCC1 overexpression. <i>Mutagenesis</i> , 1998, 13, 595-599.	2.6	8
80	Unique molecular mechanisms for maintenance and alteration of genetic information in the budding yeast <i>Saccharomyces cerevisiae</i> . <i>Genes and Environment</i> , 2017, 39, 28.	2.1	8
81	Reporter gene assays for screening and identification of novel molting hormone- and juvenile hormone-like chemicals. <i>Journal of Pesticide Sciences</i> , 2021, 46, 29-42.	1.4	8
82	Establishment of Reporter Yeasts for Guinea Pig and Syrian Hamster Aryl Hydrocarbon Receptor Ligand Activity. <i>Genes and Environment</i> , 2006, 28, 167-172.	2.1	7
83	Genetic variations and phylogeography of the swallowtail butterfly <i>Papilio machaon</i> on the Japanese Islands. <i>Entomological Science</i> , 2018, 21, 248-259.	0.6	7
84	Molecular Evidence of the Involvement of the Nucleotide Excision Repair (NER) System in the Repair of the Mono(ADP-Ribosyl)ated DNA Adduct Produced by Pierisin-1, an Apoptosis-Inducing Protein from the Cabbage Butterfly. <i>Chemical Research in Toxicology</i> , 2007, 20, 694-700.	3.3	6
85	Microbial Metabolites of Omeprazole Activate Murine Aryl Hydrocarbon Receptor In Vitro and In Vivo. <i>Drug Metabolism and Disposition</i> , 2014, 42, 1690-1697.	3.3	6
86	A perspective of <i>Genes and Environment</i> for the development of environmental mutagen research in Asia. <i>Genes and Environment</i> , 2017, 39, 23.	2.1	6
87	Polyaromatic Hydrocarbons Cause Histone H2AX Phosphorylation in the S-phase of the Cell Cycle. <i>Genes and Environment</i> , 2008, 30, 92-99.	2.1	6
88	Protective effects of sodium selenite on killing and mutation by N-methyl-N-nitro-N-nitrosoguanidine in <i>E. coli</i> . <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1991, 250, 73-77.	1.0	5
89	Correlation of (6 ⁴) photoproduct formation with transforming mutations in UV-irradiated Ha-ras. <i>Carcinogenesis</i> , 1995, 16, 689-695.	2.8	5
90	Sites and types of UV-induced mutations leading to inactivation of the growth-arresting activity in p21 (sdi1/cip1/waf1) cDNA. <i>Carcinogenesis</i> , 1996, 17, 2343-2345.	2.8	5

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91	Translesion DNA synthesis across various DNA adducts produced by 3-nitrobenzanthrone in <i>Escherichia coli</i> . <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2013, 754, 32-38.	1.7	5
92	Development of yeast reporter assays for the enhanced detection of environmental ligands of thyroid hormone receptors β and γ from <i>Xenopus tropicalis</i> . <i>Toxicology in Vitro</i> , 2016, 37, 15-24.	2.4	5
93	Characterization of Methyltestosterone Degrading Bacteria Isolated from Tilapia Masculinizing Ponds: Metabolic Intermediate, Glucose Amendments Effects, and Other Hormones Transformation. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	5
94	Improvement of reporter gene assay for highly sensitive dioxin detection using protoplasmic yeast with inactivation of CWP and PDR genes. <i>Environmental Science and Pollution Research</i> , 2020, 27, 9227-9235.	5.3	5
95	Establishment of a Method for Analyzing Translesion DNA Synthesis across a Single Bulky Adduct in Human Cells. <i>Genes and Environment</i> , 2009, 31, 24-30.	2.1	5
96	Detection of juvenile hormone agonists by a new reporter gene assay using yeast expressing <i>Drosophila</i> methoprene-tolerant. <i>FEBS Open Bio</i> , 2021, 11, 2774-2783.	2.3	4
97	Detection and quantification of DNA strand breaks in human cells induced by contaminants in Japanese tap waters. <i>Water Science and Technology</i> , 1996, 33, 297-304.	2.5	4
98	Inhibition of X-ray and Doxorubicin-induced Apoptosis by Butyrolactone I, a CDK-specific Inhibitor, in Human Tumor Cells. <i>Journal of Radiation Research</i> , 2000, 41, 341-348.	1.6	3
99	The Achievement of Shuttle Vector Techniques in Mammalian Cell Mutation Research. <i>Genes and Environment</i> , 2013, 35, 93-98.	2.1	3
100	Genes and Environment: providing open access to environmental mutagenesis and genomics studies for global cooperation. <i>Genes and Environment</i> , 2015, 37, 4.	2.1	3
101	A pilot study for construction of a new cadmium-sensing yeast strain carrying a reporter plasmid with the <i>JLP1</i> promoter. <i>Journal of Toxicological Sciences</i> , 2017, 42, 103-109.	1.5	3
102	Characterization of p53 gene mutations in basal-cell carcinomas: Comparison between sun-exposed and less-exposed skin areas. <i>International Journal of Cancer</i> , 1996, 65, 778-780.	5.1	3
103	Similarity in the Effect of Caffeine on DNA Synthesis after UV Irradiation between Xeroderma Pigmentosum Variant Cells and Mouse Cells. <i>Japanese Journal of Cancer Research</i> , 1989, 80, 754-758.	1.7	2
104	Application of a Battery of Sex Steroid-Responsive Reporter Yeasts for the Detection of Sex Hormone-Disrupting Chemicals. <i>Applied in Vitro Toxicology</i> , 2021, 7, 14-23.	1.1	2
105	Differential Responses of Various Pharmaceuticals to Human Estrogen Receptors β and γ in Newly-constructed Yeast Reporter Assays. <i>Genes and Environment</i> , 2009, 31, 80-86.	2.1	1
106	Report of the 4th Asian Conference on Environmental Mutagens at CSIR-Indian Institute of Chemical Biology, Kolkata on December 10-12, 2014. <i>Genes and Environment</i> , 2015, 37, .	2.1	0
107	Mutagenic Specificity of N-Nitrosotaurocholic Acid in supF Shuttle Vector Plasmids. <i>Genes and Environment</i> , 2009, 31, 9-14.	2.1	0
108	Concerns over Genotoxicity of Nanomaterials” JEMS Symposium in 2010. <i>Genes and Environment</i> , 2011, 33, 1-3.	2.1	0