

# Hari S Misra

## List of Publications by Year in descending order

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84  
papers

2,177  
citations

218592

26  
h-index

276775

41  
g-index

96  
all docs

96  
docs citations

96  
times ranked

2123  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver nanoparticle-loaded PVA/gum acacia hydrogel: Synthesis, characterization and antibacterial study. <i>Carbohydrate Polymers</i> , 2012, 89, 906-913.	5.1	216
2	Pyrrroloquinoline-quinone and its versatile roles in biological processes. <i>Journal of Biosciences</i> , 2012, 37, 313-325.	0.5	124
3	Pyrrroloquinoline-quinone: a reactive oxygen species scavenger in bacteria. <i>FEBS Letters</i> , 2004, 578, 26-30.	1.3	121
4	Genome-wide study predicts promoter-G4 DNA motifs regulate selective functions in bacteria: radioresistance of <i>D. radiodurans</i> involves G4 DNA-mediated regulation. <i>Nucleic Acids Research</i> , 2013, 41, 76-89.	6.5	98
5	An exonuclease I-sensitive DNA repair pathway in <i>Deinococcus radiodurans</i> : a major determinant of radiation resistance. <i>Molecular Microbiology</i> , 2006, 59, 1308-1316.	1.2	80
6	Chromatin modifications and the DNA damage response to ionizing radiation. <i>Frontiers in Oncology</i> , 2013, 2, 214.	1.3	55
7	Genetic transformation of chickpea ( <i>Cicer arietinum</i> L.) with insecticidal crystal protein gene using particle gun bombardment. <i>Plant Cell Reports</i> , 2007, 26, 755-763.	2.8	52
8	Pyrrroloquinolineâ€“quinone synthesized in <i>Escherichia coli</i> by pyrrroloquinolineâ€“quinone synthase of <i>Deinococcus radiodurans</i> plays a role beyond mineral phosphate solubilization. <i>Biochemical and Biophysical Research Communications</i> , 2003, 312, 303-308.	1.0	50
9	Characterization of a DNA damageâ€“inducible membrane protein kinase from <i>Deinococcus radiodurans</i> and its role in bacterial radioresistance and DNA strand break repair. <i>Molecular Microbiology</i> , 2010, 77, 1470-1482.	1.2	49
10	Differential Expression of Photosynthesis and Nitrogen Fixation Genes in the Cyanobacterium <i>Plectonema boryanum</i> . <i>Plant Physiology</i> , 2000, 122, 731-736.	2.3	46
11	Involvement of a Protein Kinase Activity Inducer in DNA Double Strand Break Repair and Radioresistance of <i>Deinococcus radiodurans</i> . <i>Journal of Bacteriology</i> , 2008, 190, 3948-3954.	1.0	43
12	G-quadruplex forming structural motifs in the genome of <i>Deinococcus radiodurans</i> and their regulatory roles in promoter functions. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 9761-9769.	1.7	42
13	PprA: a protein implicated in radioresistance of <i>Deinococcus radiodurans</i> stimulates catalase activity in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 790-796.	1.7	41
14	RecBC enzyme overproduction affects UV and gamma radiation survival of <i>Deinococcus radiodurans</i> . <i>DNA Repair</i> , 2008, 7, 40-47.	1.3	41
15	Functional Characterization of the Role of the Chromosome I Partitioning System in Genome Segregation in <i>Deinococcus radiodurans</i> . <i>Journal of Bacteriology</i> , 2012, 194, 5739-5748.	1.0	41
16	Uranium biomineralization induced by a metal tolerant <i>Serratia</i> strain under acid, alkaline and irradiated conditions. <i>Metallomics</i> , 2018, 10, 1078-1088.	1.0	41
17	Polyamide Nucleic Acid~DNA Chimera Lacking the Phosphate Backbone Are Novel Primers for Polymerase Reaction Catalyzed by DNA Polymerases. <i>Biochemistry</i> , 1998, 37, 1917-1925.	1.2	40
18	The Bromodomain Protein 4 Contributes to the Regulation of Alternative Splicing. <i>Cell Reports</i> , 2019, 29, 2450-2460.e5.	2.9	36

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19	PprA Contributes to <i>Deinococcus radiodurans</i> Resistance to Nalidixic Acid, Genome Maintenance after DNA Damage and Interacts with Deinococcal Topoisomerases. <i>PLoS ONE</i> , 2014, 9, e85288.	1.1	35
20	Structure-function study of deinococcal serine/threonine protein kinase implicates its kinase activity and DNA repair protein phosphorylation roles in radioresistance of <i>Deinococcus radiodurans</i> . <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 2541-2552.	1.2	34
21	Phosphorylation of <i>Deinococcus radiodurans</i> RecA Regulates Its Activity and May Contribute to Radioresistance. <i>Journal of Biological Chemistry</i> , 2016, 291, 16672-16685.	1.6	33
22	Phosphorylation of FtsZ and FtsA by a DNA Damage-Responsive Ser/Thr Protein Kinase Affects Their Functional Interactions in <i>Deinococcus radiodurans</i> . <i>MSphere</i> , 2018, 3, .	1.3	33
23	<i>Agrobacterium</i> -mediated transformation in chickpea ( <i>Cicer arietinum</i> L.) with an insecticidal protein gene: optimisation of different factors. <i>Physiology and Molecular Biology of Plants</i> , 2010, 16, 273-284.	1.4	32
24	Heat-stress priming and alternative splicing-linked memory. <i>Journal of Experimental Botany</i> , 2018, 69, 2431-2434.	2.4	31
25	Involvement of a periplasmic protein kinase in DNA strand break repair and homologous recombination in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2007, 65, 294-304.	1.2	28
26	Identification of a DNA processing complex from <i>Deinococcus radiodurans</i> . <i>Biochemistry and Cell Biology</i> , 2008, 86, 448-458.	0.9	27
27	DNA polymerase X from <i>Deinococcus radiodurans</i> implicated in bacterial tolerance to DNA damage is characterized as a short patch base excision repair polymerase. <i>Microbiology (United Kingdom)</i> , 2009, 155, 3005-3014.	0.7	27
28	Evaluation of the role of enzymatic and nonenzymatic antioxidant systems in the radiation resistance of <i>Deinococcus</i> . <i>Canadian Journal of Microbiology</i> , 2010, 56, 195-201.	0.8	27
29	An Enzymatically Active Chimeric HIV-1 Reverse Transcriptase (RT) with the RNase-H Domain of Murine Leukemia Virus RT Exists as a Monomer. <i>Journal of Biological Chemistry</i> , 1998, 273, 9785-9789.	1.6	23
30	Divisome and segrosome components of <i>Deinococcus radiodurans</i> interact through cell division regulatory proteins. <i>Microbiology (United Kingdom)</i> , 2016, 162, 1321-1334.	0.7	23
31	PprA, a pleiotropic protein for radioresistance, works through DNA gyrase and shows cellular dynamics during postirradiation recovery in <i>Deinococcus radiodurans</i> . <i>Journal of Genetics</i> , 2014, 93, 349-354.	0.4	22
32	Maintenance of multipartite genome system and its functional significance in bacteria. <i>Journal of Genetics</i> , 2018, 97, 1013-1038.	0.4	22
33	Label-free rapid electrochemical detection of DNA hybridization using ultrasensitive standalone CNT aerogel biosensor. <i>Biosensors and Bioelectronics</i> , 2021, 191, 113480.	5.3	22
34	FrnE, a Cadmium-Inducible Protein in <i>Deinococcus radiodurans</i> , Is Characterized as a Disulfide Isomerase Chaperone In Vitro and for Its Role in Oxidative Stress Tolerance In Vivo. <i>Journal of Bacteriology</i> , 2013, 195, 2880-2886.	1.0	21
35	Excitation energy transfer from phycobilisomes to photosystems: a phenomenon associated with the temporal separation of photosynthesis and nitrogen fixation in a cyanobacterium, <i>Plectonema boryanum</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000, 1459, 139-147.	0.5	20
36	MusaMPK5, a mitogen activated protein kinase is involved in regulation of cold tolerance in banana. <i>Plant Physiology and Biochemistry</i> , 2020, 146, 112-123.	2.8	20

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37	Role of glutathione in augmenting the anticancer activity of pyrroloquinoline quinone (PQQ). Redox Report, 2010, 15, 146-154.	1.4	19
38	Characterization of the role of the RadS/RadR two-component system in the radiation resistance of Deinococcus radiodurans. Microbiology (United Kingdom), 2011, 157, 2974-2982.	0.7	19
39	Dr-FtsA, an Actin Homologue in Deinococcus radiodurans Differentially Affects Dr-FtsZ and Ec-FtsZ Functions In Vitro. PLoS ONE, 2014, 9, e115918.	1.1	19
40	Interdependence of bacterial cell division and genome segregation and its potential in drug development. Microbiological Research, 2018, 208, 12-24.	2.5	19
41	Oxygen implication in the diazotrophic growth of Plectonema boryanum in darkâ€“light cycles. Plant Science, 1999, 143, 135-142.	1.7	17
42	Cloning and characterization of an insecticidal crystal protein gene from Bacillus thuringiensis subspecies kenyae. Journal of Genetics, 2002, 81, 5-11.	0.4	17
43	Survival of phosphate-solubilizing bacteria against DNA damaging agents. Canadian Journal of Microbiology, 2010, 56, 822-830.	0.8	17
44	ATP-type DNA ligase requires other proteins for its activity in vitro and its operon components for radiation resistance in Deinococcus radiodurans in vivo. Biochemistry and Cell Biology, 2010, 88, 783-790.	0.9	16
45	Characterization of DRAO282 from Deinococcus radiodurans for its role in bacterial resistance to DNA damage. Microbiology (United Kingdom), 2011, 157, 2196-2205.	0.7	16
46	FtsZDr, a tubulin homologue in radioresistant bacterium Deinococcus radiodurans is characterized as a GTPase exhibiting polymerization/depolymerization dynamics in vitro and FtsZ ring formation in vivo. International Journal of Biochemistry and Cell Biology, 2014, 50, 38-46.	1.2	16
47	Topoisomerase IB of Deinococcus radiodurans resolves guanine quadruplex DNA structures in vitro. Journal of Biosciences, 2015, 40, 833-843.	0.5	16
48	DNA Gyrase of Deinococcus radiodurans is characterized as Type II bacterial topoisomerase and its activity is differentially regulated by PprA in vitro. Extremophiles, 2016, 20, 195-205.	0.9	16
49	The SbcCD complex of Deinococcus radiodurans contributes to radioresistance and DNA strand break repair in vivo and exhibits Mre11â€“Rad50 type activity in vitro. DNA Repair, 2010, 9, 488-494.	1.3	15
50	Increased synthesis of signaling molecules coincides with reversible inhibition of nucleolytic activity during postirradiation recovery of Deinococcus radiodurans. FEMS Microbiology Letters, 2010, 303, 18-25.	0.7	15
51	Guanine Quadruplex DNA Regulates Gamma Radiation Response of Genome Functions in the Radioresistant Bacterium <i>Deinococcus radiodurans</i> . Journal of Bacteriology, 2019, 201, .	1.0	14
52	Pyrroloquinoline quinone and a quinoprotein kinase support $\gamma$ radiation resistance in <i>Deinococcus radiodurans</i> and regulate gene expression. Journal of Basic Microbiology, 2013, 53, 518-531.	1.8	13
53	ParA proteins of secondary genome elements cross-talk and regulate radioresistance through genome copy number reduction in <i>Deinococcus radiodurans</i> . Biochemical Journal, 2019, 476, 909-930.	1.7	13
54	DR2417, a hypothetical protein characterized as a novel $\hat{1}^2$ -CASP family nuclease in radiation resistant bacterium, Deinococcus radiodurans. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1052-1061.	1.1	12

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55	Biochemical and functional characterization of OsCSD3, a novel CuZn superoxide dismutase from rice. <i>Biochemical Journal</i> , 2018, 475, 3105-3121.	1.7	12
56	An alternate photosynthetic electron donor system for PSI supports light dependent nitrogen fixation in a non-heterocystous cyanobacterium, <i>Plectonema boryanum</i> . <i>Journal of Plant Physiology</i> , 2003, 160, 33-39.	1.6	11
57	Characterisation of ParB encoded on multipartite genome in <i>Deinococcus radiodurans</i> and their roles in radioresistance. <i>Microbiological Research</i> , 2019, 223-225, 22-32.	2.5	11
58	Characterization of an ATP-regulated DNA-processing enzyme and thermotolerant phosphoesterase in the radioresistant bacterium <i>Deinococcus radiodurans</i> . <i>Biochemical Journal</i> , 2010, 431, 149-157.	1.7	10
59	N-terminal domain of DivIVA contributes to its dimerization and interaction with genome segregation proteins in a radioresistant bacterium <i>Deinococcus radiodurans</i> . <i>International Journal of Biological Macromolecules</i> , 2019, 128, 12-21.	3.6	10
60	PprA Protein Inhibits DNA Strand Exchange and ATP Hydrolysis of <i>Deinococcus</i> RecA and Regulates the Recombination in Gamma-Irradiated Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 636178.	1.8	10
61	DR1769, a Protein with N-Terminal Beta Propeller Repeats and a Low-Complexity Hydrophilic Tail, Plays a Role in Desiccation Tolerance of <i>Deinococcus radiodurans</i> . <i>Journal of Bacteriology</i> , 2013, 195, 3888-3896.	1.0	9
62	ParA encoded on chromosome II of <i>Deinococcus radiodurans</i> binds to nucleoid and inhibits cell division in <i>Escherichia coli</i> . <i>Journal of Biosciences</i> , 2013, 38, 487-497.	0.5	8
63	DrRecQ regulates guanine quadruplex DNA structure dynamics and its impact on radioresistance in <i>Deinococcus radiodurans</i> . <i>Molecular Microbiology</i> , 2019, 112, 854-865.	1.2	7
64	Phosphorylation of deinococcal RecA affects its structural and functional dynamics implicated for its roles in radioresistance of <i>Deinococcus radiodurans</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 114-123.	2.0	7
65	Involvement of serine / threonine protein kinases in DNA damage response and cell division in bacteria. <i>Research in Microbiology</i> , 2022, 173, 103883.	1.0	7
66	Maintenance of multipartite genome system and its functional significance in bacteria. <i>Journal of Genetics</i> , 2018, 97, 1013-1038.	0.4	7
67	Hypothetical Proteins Present During Recovery Phase of Radiation Resistant Bacterium <i>Deinococcus radiodurans</i> are Under Purifying Selection. <i>Journal of Molecular Evolution</i> , 2013, 77, 31-42.	0.8	6
68	drFrnE Represents a Hitherto Unknown Class of Eubacterial Cytoplasmic Disulfide Oxido-Reductases. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 296-310.	2.5	6
69	Xanthomonascaspase displays an inherent PARP-like activity. <i>FEMS Microbiology Letters</i> , 2007, 272, 259-268.	0.7	5
70	Studies of protein-protein interactions in Fanconi anemia pathway to unravel the DNA interstrand crosslink repair mechanism. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 1338-1344.	3.6	5
71	Plasmids for making multiple knockouts in a radioresistant bacterium <i>Deinococcus radiodurans</i> . <i>Plasmid</i> , 2018, 100, 6-13.	0.4	5
72	Molecular interactions and their predictive roles in cell pole determination in bacteria. <i>Critical Reviews in Microbiology</i> , 2021, 47, 141-161.	2.7	5

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73	Emerging roles of bromodomain protein 4 in regulation of stem cell identity. <i>Stem Cells</i> , 2021, 39, 1615-1624.	1.4	5
74	Topoisomerase IB interacts with genome segregation proteins and is involved in multipartite genome maintenance in <i>Deinococcus radiodurans</i> . <i>Microbiological Research</i> , 2021, 242, 126609.	2.5	4
75	DivIVA Regulates Its Expression and the Orientation of New Septum Growth in <i>Deinococcus radiodurans</i> . <i>Journal of Bacteriology</i> , 2021, 203, e0016321.	1.0	4
76	WD40 domain of RqkA regulates its kinase activity and role in extraordinary radioresistance of <i>D. radiodurans</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 1246-1259.	2.0	3
77	Molecular insights into replication initiation in a multipartite genome harboring bacterium <i>Deinococcus radiodurans</i> . <i>Journal of Biological Chemistry</i> , 2021, 296, 100451.	1.6	3
78	Characterization of ori and parS-like functions in secondary genome replicons in <i>Deinococcus radiodurans</i> . <i>Life Science Alliance</i> , 2021, 4, e202000856.	1.3	3
79	Purification, crystallization and preliminary crystallographic investigation of FrnE, a disulfide oxidoreductase from <i>Deinococcus radiodurans</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 1540-1542.	0.4	2
80	Structural and biophysical properties of h-FANCI ARM repeat protein. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 3032-3042.	2.0	1
81	Para Encoded on Chromosome i of <i>Deinococcus Radiodurans</i> Requires its Cognate Parb and Centromere for its Dynamics. <i>Proceedings of the Indian National Science Academy</i> , 2014, 80, 663.	0.5	1
82	Molecular and Biochemical Analysis of Duplicated Cytosolic CuZn Superoxide Dismutases of Rice and in silico Analysis in Plants. <i>Frontiers in Plant Science</i> , 2022, 13, .	1.7	1
83	Involvement of a periplasmic protein kinase in DNA strand break repair and homologous recombination in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2007, 65, 1595-1595.	1.2	0
84	Protein-protein interactions of Fanconi anemia proteins FANCI, FANCD2 and BRCA2. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C455-C455.	0.0	0