

# Mukesh Kumar Gupta

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99 papers	1,657 citations	21 h-index	38 g-index
120 ext. papers	1,966 ext. citations	3.1 avg, IF	4.9 L-index

#	Paper	IF	Citations
99	Current progress in Reactive Oxygen Species (ROS)-Responsive materials for biomedical applications. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 908-15	10.1	244
98	Effect of vitrification and beta-mercaptoethanol on reactive oxygen species activity and in vitro development of oocytes vitrified before or after in vitro fertilization. <i>Fertility and Sterility</i> , <b>2010</b> , 93, 2602-7	4.8	125
97	Development of a nanocomposite scaffold of gelatin-alginate-graphene oxide for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 133, 592-602	7.9	84
96	Cryopreservation of immature and in vitro matured porcine oocytes by solid surface vitrification. <i>Theriogenology</i> , <b>2007</b> , 67, 238-48	2.8	82
95	A new chitosan-thymine conjugate: synthesis, characterization and biological activity. <i>International Journal of Biological Macromolecules</i> , <b>2012</b> , 50, 493-502	7.9	64
94	Increasing histone acetylation of cloned embryos, but not donor cells, by sodium butyrate improves their in vitro development in pigs. <i>Cellular Reprogramming</i> , <b>2010</b> , 12, 95-104	2.1	64
93	Sustained local delivery of siRNA from an injectable scaffold. <i>Biomaterials</i> , <b>2012</b> , 33, 1154-61	15.6	63
92	Epidermal growth factor can be used in lieu of follicle-stimulating hormone for nuclear maturation of porcine oocytes in vitro. <i>Theriogenology</i> , <b>2010</b> , 73, 1024-36	2.8	48
91	ROS-cleavable proline oligomer crosslinking of polycaprolactone for pro-angiogenic host response. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 7109-7113	7.3	43
90	Selenium improves the developmental ability and reduces the apoptosis in porcine parthenotes. <i>Molecular Reproduction and Development</i> , <b>2007</b> , 74, 1386-94	2.6	42
89	Measuring multiple impacts of low-carbon energy options in a green economy context. <i>Applied Energy</i> , <b>2016</b> , 179, 1409-1426	10.7	37
88	Gelatin-alginate-cerium oxide nanocomposite scaffold for bone regeneration. <i>Materials Science and Engineering C</i> , <b>2020</b> , 116, 111111	8.3	36
87	Expression of enhanced green fluorescent protein in porcine- and bovine-cloned embryos following interspecies somatic cell nuclear transfer of fibroblasts transfected by retrovirus vector. <i>Molecular Reproduction and Development</i> , <b>2007</b> , 74, 1538-47	2.6	35
86	Embryo quality and production efficiency of porcine parthenotes is improved by phytohemagglutinin. <i>Molecular Reproduction and Development</i> , <b>2007</b> , 74, 435-44	2.6	32
85	Methylation status of putative differentially methylated regions of porcine IGF2 and H19. <i>Molecular Reproduction and Development</i> , <b>2008</b> , 75, 777-84	2.6	32
84	MicroRNA signature in testes-derived male germ-line stem cells. <i>Molecular Human Reproduction</i> , <b>2010</b> , 16, 804-10	4.4	31
83	Lyophilized somatic cells direct embryonic development after whole cell intracytoplasmic injection into pig oocytes. <i>Cryobiology</i> , <b>2010</b> , 61, 220-4	2.7	29

82	Sexual maturity and reproductive phase of oocyte donor influence the developmental ability and apoptosis of cloned and parthenogenetic porcine embryos. <i>Animal Reproduction Science</i> , <b>2008</b> , 108, 107-21	2.1	27
81	Proteomic analysis of parthenogenetic and in vitro fertilized porcine embryos. <i>Proteomics</i> , <b>2009</b> , 9, 2846-60	4.0	26
80	Possible involvement of Wnt/β-catenin signaling pathway in hatching and trophectoderm differentiation of pig blastocysts. <i>Theriogenology</i> , <b>2013</b> , 79, 284-90.e1-2	2.8	24
79	Glial cell line-derived neurotrophic factor alters the growth characteristics and genomic imprinting of mouse multipotent adult germline stem cells. <i>Experimental Cell Research</i> , <b>2010</b> , 316, 747-61	4.2	23
78	Successful vitrification of bovine blastocysts on paper container. <i>Theriogenology</i> , <b>2012</b> , 78, 1085-93	2.8	20
77	Differential but beneficial effect of phytohemagglutinin on efficiency of in vitro porcine embryo production by somatic cell nuclear transfer or in vitro fertilization. <i>Molecular Reproduction and Development</i> , <b>2007</b> , 74, 1557-67	2.6	19
76	Role of nonessential amino acids on porcine embryos produced by parthenogenesis or somatic cell nuclear transfer. <i>Molecular Reproduction and Development</i> , <b>2008</b> , 75, 588-97	2.6	19
75	Fabrication of Graphene Oxide and Nanohydroxyapatite Reinforced Gelatin/Alginate Nanocomposite Scaffold for Bone Tissue Regeneration. <i>Frontiers in Materials</i> , <b>2020</b> , 7,	4	18
74	Differential genomic imprinting and expression of imprinted microRNAs in testes-derived male germ-line stem cells in mouse. <i>PLoS ONE</i> , <b>2011</b> , 6, e22481	3.7	16
73	Development of transgenic chickens expressing human parathormone under the control of a ubiquitous promoter by using a retrovirus vector system. <i>Poultry Science</i> , <b>2007</b> , 86, 2221-7	3.9	16
72	Poly(ADP-ribosyl)ation is involved in pro-survival autophagy in porcine blastocysts. <i>Molecular Reproduction and Development</i> , <b>2016</b> , 83, 37-49	2.6	16
71	Open encapsulation-vitrification for cryopreservation of algae. <i>Cryobiology</i> , <b>2016</b> , 73, 232-9	2.7	15
70	Isolation and In vitro Culture of Pig Spermatogonial Stem Cell. <i>Asian-Australasian Journal of Animal Sciences</i> , <b>2009</b> , 22, 187-193	2.4	14
69	Transgenic chicken, mice, cattle, and pig embryos by somatic cell nuclear transfer into pig oocytes. <i>Cellular Reprogramming</i> , <b>2013</b> , 15, 322-8	2.1	13
68	Combining selected reaction monitoring with discovery proteomics in limited biological samples. <i>Proteomics</i> , <b>2009</b> , 9, 4834-6	4.8	13
67	Establishment of stem cell lines from nuclear transferred and parthenogenetically activated mouse oocytes for therapeutic cloning. <i>Fertility and Sterility</i> , <b>2008</b> , 89, 1314-23	4.8	13
66	Supplementation of insulin-transferrin-selenium to embryo culture medium improves the in vitro development of pig embryos. <i>Zygote</i> , <b>2014</b> , 22, 411-8	1.6	12
65	Developmental Ability of Bovine Embryos Nuclear Transferred with Frozen-thawed or Cooled Donor Cells. <i>Asian-Australasian Journal of Animal Sciences</i> , <b>2005</b> , 18, 1242-1248	2.4	12

- 64 Transgenic chickens expressing human urokinase-type plasminogen activator. *Poultry Science*, **2013**, 92, 2396-403 3.9 11
- 63 H19 gene is epigenetically stable in mouse multipotent germline stem cells. *Molecules and Cells*, **2009**, 27, 635-40 3.5 11
- 62 3-Hydroxyflavone improves the in vitro development of cloned porcine embryos by inhibiting ROS production. *Cellular Reprogramming*, **2011**, 13, 441-9 2.1 11
- 61 Functional comparison of beating cardiomyocytes differentiated from umbilical cord-derived mesenchymal/stromal stem cells and human foreskin-derived induced pluripotent stem cells. *Journal of Biomedical Materials Research - Part A*, **2020**, 108, 496-514 5.4 11
- 60 Cryopreservation of murine testicular Leydig cells by modified solid surface vitrification with supplementation of antioxidants. *Cryobiology*, **2019**, 88, 38-46 2.7 10
- 59 5-Azacytidine improves the meiotic maturation and subsequent in vitro development of pig oocytes. *Animal Reproduction Science*, **2019**, 208, 106118 2.1 10
- 58 Diphenyldiselenide As Novel NonSalt Photoinitiator for Photosensitized Cationic Polymerization of N-Vinyl Carbazole. *Macromolecular Symposia*, **2006**, 240, 186-193 0.8 10
- 57 Evaluation of sodium alginate for encapsulation-vitrification of testicular Leydig cells. *International Journal of Biological Macromolecules*, **2020**, 153, 128-137 7.9 9
- 56 Effect of transgene introduction and recloning on efficiency of porcine transgenic cloned embryo production in vitro. *Reproduction in Domestic Animals*, **2009**, 44, 106-15 1.6 9
- 55 Plasticized poly(vinylalcohol) and poly(vinylpyrrolidone) based patches with tunable mechanical properties for cardiac tissue engineering applications. *Biotechnology and Bioengineering*, **2021**, 118, 2312-2325 4.9 9
- 54 Improved survival of cardiac cells on surface modified electrospun nanofibers. *Polymer Science - Series A*, **2017**, 59, 515-523 1.2 8
- 53 Biomatrix from goat-waste in sponge/gel/powder form for tissue engineering and synergistic effect of nanoceria. *Biomedical Materials (Bristol)*, **2021**, 16, 025008 3.5 8
- 52 Fluorescence enhancement effect in pyrene and perylene doped nanoporous polystyrene films: Mechanistic and morphology. *Physica Status Solidi (A) Applications and Materials Science*, **2013**, 210, 2121-2127 1.6 7
- 51 Possible involvement of Class III phosphatidylinositol-3-kinase in meiotic progression of porcine oocytes beyond germinal vesicle stage. *Theriogenology*, **2011**, 75, 940-50 2.8 7
- 50 Effect of 3-hydroxyflavone on pig embryos produced by parthenogenesis or somatic cell nuclear transfer. *Reproductive Toxicology*, **2011**, 31, 231-8 3.4 7
- 49 Thermally induced cationic polymerization of glycidyl phenyl ether using novel xanthylenyl phosphonium salts. *Macromolecular Research*, **2009**, 17, 221-226 1.9 7
- 48 Novel allylic phosphonium salts in free radical accelerated cationic polymerization. *Polymer Bulletin*, **2009**, 62, 271-280 2.4 7
- 47 Evidence based review on levosalbutamol. *Indian Journal of Pediatrics*, **2007**, 74, 161-7 3 7

46	Photo-crosslinked alginate nano-hydroxyapatite paste for bone tissue engineering. <i>Biomedical Materials (Bristol)</i> , <b>2020</b> , 15, 055019	3.5	7
45	Establishment of major histocompatibility complex homozygous gnotobiotic miniature swine colony for xenotransplantation. <i>Animal Science Journal</i> , <b>2015</b> , 86, 468-75	1.8	6
44	Cationic Polymerization of Epoxides using Novel Xanthenyl Phosphonium Salts as Thermo-latent Initiator. <i>Polymer Bulletin</i> , <b>2008</b> , 60, 755-763	2.4	6
43	Curcumin in decellularized goat small intestine submucosa for wound healing and skin tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2022</b> , 110, 210-219	3.5	6
42	A Concise Review on Induced Pluripotent Stem Cell-Derived Cardiomyocytes for Personalized Regenerative Medicine. <i>Stem Cell Reviews and Reports</i> , <b>2021</b> , 17, 748-776	7.3	6
41	Prediction of novel pluripotent proteins involved in reprogramming of male Germline stem cells (GSCs) into multipotent adult Germline stem cells (maGSCs) by network analysis. <i>Computational Biology and Chemistry</i> , <b>2018</b> , 76, 302-309	3.6	5
40	Nanoparticles for Gene Delivery into Stem Cells and Embryos. <i>Advances in Polymer Science</i> , <b>2012</b> , 51-85	1.3	5
39	Novel dibenzocycloheptenyl phosphonium salts as thermolatent initiator in cationic polymerization. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 112, 3707-3713	2.9	5
38	Novel addition-fragmentation agent in cationic photopolymerization. <i>Polymer Bulletin</i> , <b>2010</b> , 65, 25-34	2.4	5
37	Synthesis and characterization of films based on cross linked blends of poly (vinylalcohol) and poly (vinylpyrrolidone) with glutaraldehyde for tissue engineering application. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2017</b> , 48, 611-622	0.9	4
36	Fast acting hemostatic agent based on self-assembled hybrid nanofibers from chitosan and casein. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 185, 525-534	7.9	4
35	Relationship between Developmental Ability and Cell Number of Day 2 Porcine Embryos Produced by Parthenogenesis or Somatic Cell Nuclear Transfer. <i>Asian-Australasian Journal of Animal Sciences</i> , <b>2009</b> , 22, 483-491	2.4	3
34	Strategies for cryopreservation of testicular cells and tissues in cancer and genetic diseases. <i>Cell and Tissue Research</i> , <b>2021</b> , 385, 1-19	4.2	3
33	Screening and insilico analysis of deleterious nsSNPs (missense) in human CSF3 for their effects on protein structure, stability and function. <i>Computational Biology and Chemistry</i> , <b>2019</b> , 82, 57-64	3.6	2
32	Lung hypoplasia with dilated cardiomyopathy: coincidence or association?. <i>Indian Journal of Pediatrics</i> , <b>2007</b> , 74, 304-6	3	2
31	Recent Advances in Pharmaceutical Applications of Natural Carbohydrate Polymer Gum Tragacanth		2
30	Gnotobiotic Miniature Pig Interbreed Somatic Cell Nuclear Transfer for Xenotransplantation. <i>Cellular Reprogramming</i> , <b>2016</b> , 18, 207-13	2.1	2
29	Arteriovenous malformation with a renal mass: A rare association. <i>Indian Journal of Urology</i> , <b>2020</b> , 36, 65-66	0.8	1

28	Solid surface vitrification of goat testicular cell suspension enriched for spermatogonial stem cells. <i>Cryobiology</i> , <b>2021</b> , 104, 8-8	2.7	1
27	Development of decellularization protocol for caprine small intestine submucosa as a biomaterial. <i>Biomaterials and Biosystems</i> , <b>2022</b> , 5, 100035		1
26	Cardiac Tissue Engineering: A Role for Natural Biomaterials. <i>Advanced Structured Materials</i> , <b>2021</b> , 617-641	4.6	1
25	Pharmacophore modeling coupled with scaffold hopping to identify novel and potent ribosomal S6 kinase (RSK2) protein antagonists as anti-cancer agents. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2020</b> , 38, 4947-4955	3.6	1
24	Combinatorial ethanol treatment increases the overall productivity of recombinant hG-CSF in E. coli: a comparative study. <i>Applied Microbiology and Biotechnology</i> , <b>2020</b> , 104, 9135-9145	5.7	1
23	Molecular modeling and co-expression analysis of human stem cell factor as fusion partner to granulocyte colony stimulating factor for improving their bioactivity. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2021</b> , 39, 4990-5004	3.6	1
22	Urethral diverticulum with giant calculus: an unusual cause of prolonged lower urinary tract symptoms. <i>International Urogynecology Journal</i> , <b>2020</b> , 31, 2691-2692	2	1
21	Comparison of two culture methods during in vitro spermatogenesis of vitrified-warmed testis tissue: Organ culture vs. hanging drop culture. <i>Cryobiology</i> , <b>2021</b> , 100, 142-150	2.7	1
20	A Boolean Logical model for Reprogramming of Testes-derived male Germline Stem Cells into Germline pluripotent stem cells. <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 192, 105473	6.9	1
19	Comparison of spermatozoal RNA extraction methods in goats. <i>Analytical Biochemistry</i> , <b>2021</b> , 614, 114059	5.1	1
18	Mechanical, Electrical, and Biological Properties of Mechanochemically Processed Hydroxyapatite Ceramics. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	1
17	Aptamer-based diagnostic and therapeutic approaches in animals: Current potential and challenges. <i>Saudi Journal of Biological Sciences</i> , <b>2021</b> , 28, 5081-5093	4	1
16	Nanoceria laden decellularized extracellular matrix-based curcumin releasing nanoemulgel system for full-thickness wound healing <b>2022</b> , 212806		1
15	Putative biomarkers for early detection of mastitis in cattle. <i>Animal Production Science</i> , <b>2020</b> , 60, 1721	1.4	0
14	Engineering Biomaterials for Testicular Tissue Engineering and In Vitro Spermatogenesis <b>2021</b> , 237-249		0
13	Magnetic Resonance Imaging Evaluation of Patellofemoral Joint. <i>Journal of Nepal Health Research Council</i> , <b>2021</b> , 19, 122-126	0.9	0
12	Prediction and Boolean logical modelling of synergistic microRNA regulatory networks during reprogramming of male germline pluripotent stem cells. <i>BioSystems</i> , <b>2021</b> , 207, 104453	1.9	0
11	Automatic Extractive Summarization for English Text: A Brief Survey. <i>Advances in Intelligent Systems and Computing</i> , <b>2022</b> , 183-198	0.4	0

10	Testicular Stem Cell Niche <b>2021</b> , 161-182		o
9	Significance and Relevance of Spermatozoal RNAs to Male Fertility in Livestock.. <i>Frontiers in Genetics</i> , <b>2021</b> , 12, 768196	4.5	o
8	Tissue engineering approaches for the in vitro production of spermatids to treat male infertility: A review. <i>European Polymer Journal</i> , <b>2022</b> , 111318	5.2	o
7	Testicular tissue engineering: An emerging solution for in vitro spermatogenesis <b>2020</b> , 835-858		
6	Differences Between Germ-Line Stem Cells and Multipotent Adult Germ-Line Stem Cells for MicroRNAs <b>2012</b> , 113-129		
5	Factors Modulating Chondrogenesis and Mechano-Inductive Systems for Cartilage Tissue Engineering from Mesenchymal Stem Cells: A Review. <i>Current Tissue Engineering</i> , <b>2013</b> , 2, 41-50		
4	Cardiac Tissue Engineering: Stem Cell Sources, Synthetic Biomaterials, and Scaffold Fabrication Methods <b>2021</b> , 251-280		
3	Design and Development of Small Molecules from Somatic, Stem Cell Reprogramming, and Therapy <b>2019</b> , 167-183		
2	Examining the co-expression, transcriptome clustering and variation using fuzzy cluster network of testicular stem cells and pluripotent stem cells compared with other cell types. <i>Computational Biology and Chemistry</i> , <b>2020</b> , 85, 107227	3.6	
1	Cryopreservation of Testicular Stem Cells and Its Application in Veterinary Science <b>2021</b> , 125-159		