

Satish K. Gupta

List of Publications by Citations

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|--------------------|-------------------------|----------------|-----------------|
| 168 papers | 3,563 citations | 31 h-index | 48 g-index |
| 175 ext. papers | 4,052 ext. citations | 3.8 avg, IF | 5.42 L-index |

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 168 | Phenotype, function, and gene expression profiles of programmed death-1(hi) CD8 T cells in healthy human adults. <i>Journal of Immunology</i> , 2011 , 186, 4200-12 | 5.3 | 168 |
| 167 | Rhodium(II) acetate-catalyzed stereoselective synthesis, SAR and anti-HIV activity of novel oxindoles bearing cyclopropane ring. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 1181-8 | 6.8 | 126 |
| 166 | Hetero-oligomerization-dependent binding of pig oocyte zona pellucida glycoproteins ZPB and ZPC to boar sperm membrane vesicles. <i>Journal of Biological Chemistry</i> , 1998 , 273, 7488-94 | 5.4 | 120 |
| 165 | Cell Signaling Pathways Involved During Invasion and Syncytialization of Trophoblast Cells. <i>American Journal of Reproductive Immunology</i> , 2016 , 75, 361-71 | 3.8 | 100 |
| 164 | Recent advances in contraceptive vaccine development: a mini-review. <i>Human Reproduction</i> , 2005 , 20, 3271-83 | 5.7 | 92 |
| 163 | Mammalian zona pellucida glycoproteins: structure and function during fertilization. <i>Cell and Tissue Research</i> , 2012 , 349, 665-78 | 4.2 | 76 |
| 162 | Circulating auto-antibodies against the zona pellucida and thyroid microsomal antigen in women with premature ovarian failure. <i>Journal of Reproductive Immunology</i> , 2005 , 66, 53-67 | 4.2 | 76 |
| 161 | Effects of native human zona pellucida glycoproteins 3 and 4 on acrosome reaction and zona pellucida binding of human spermatozoa. <i>Biology of Reproduction</i> , 2008 , 79, 869-77 | 3.9 | 66 |
| 160 | Somatic mutation of immunoglobulin lambda chains: a segment of the major intron hypermutates as much as the complementarity-determining regions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 12614-8 | 11.5 | 66 |
| 159 | Decidualized endometrial stromal cell derived factors promote trophoblast invasion. <i>Fertility and Sterility</i> , 2011 , 95, 1278-83 | 4.8 | 63 |
| 158 | Sperm proteasomes degrade sperm receptor on the egg zona pellucida during mammalian fertilization. <i>PLoS ONE</i> , 2011 , 6, e17256 | 3.7 | 58 |
| 157 | Y chromosome microdeletions in azoospermic patients with Klinefelter's syndrome. <i>Asian Journal of Andrology</i> , 2006 , 8, 81-8 | 2.8 | 56 |
| 156 | Anti-HIV activity of semisynthetic derivatives of andrographolide and computational study of HIV-1 gp120 protein binding. <i>European Journal of Medicinal Chemistry</i> , 2012 , 56, 368-74 | 6.8 | 55 |
| 155 | Anti-HSV-2 activity of Terminalia chebula Retz extract and its constituents, chebulagic and chebulinic acids. <i>BMC Complementary and Alternative Medicine</i> , 2017 , 17, 110 | 4.7 | 51 |
| 154 | Baculovirus-expressed recombinant human zona pellucida glycoprotein-B induces acrosomal exocytosis in capacitated spermatozoa in addition to zona pellucida glycoprotein-C. <i>Molecular Human Reproduction</i> , 2005 , 11, 365-72 | 4.4 | 49 |
| 153 | Differential concentration and time dependent effects of progesterone on kinase activity, hyperactivation and acrosome reaction in human spermatozoa. <i>Journal of Developmental and Physical Disabilities</i> , 2012 , 35, 633-44 | | 47 |
| 152 | Delineation of a conserved B cell epitope on bonnet monkey (<i>Macaca radiata</i>) and human zona pellucida glycoprotein-B by monoclonal antibodies demonstrating inhibition of sperm-egg binding. <i>Biology of Reproduction</i> , 2000 , 62, 67-75 | 3.9 | 47 |

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| 151 | Relevance of glycosylation of human zona pellucida glycoproteins for their binding to capacitated human spermatozoa and subsequent induction of acrosomal exocytosis. <i>Molecular Reproduction and Development</i> , 2008 , 75, 75-88 | 2.6 | 46 |
| 150 | Immunoreactivity and in-vitro effect on human sperm-egg binding of antibodies against peptides corresponding to bonnet monkey zona pellucida-3 glycoprotein. <i>Human Reproduction</i> , 1997 , 12, 2664-70 | 5.7 | 45 |
| 149 | In humans, zona pellucida glycoprotein-1 binds to spermatozoa and induces acrosomal exocytosis. <i>Human Reproduction</i> , 2010 , 25, 1643-56 | 5.7 | 43 |
| 148 | Expression of bonnet monkey (<i>Macaca radiata</i>) zona pellucida-3 (ZP3) in a prokaryotic system and its immunogenicity. <i>Molecular Reproduction and Development</i> , 1997 , 47, 140-7 | 2.6 | 43 |
| 147 | Human zona pellucida glycoproteins: functional relevance during fertilization. <i>Journal of Reproductive Immunology</i> , 2009 , 83, 50-5 | 4.2 | 42 |
| 146 | Native human zona pellucida glycoproteins: purification and binding properties. <i>Human Reproduction</i> , 2008 , 23, 1385-93 | 5.7 | 40 |
| 145 | Evaluation of the immunocontraceptive potential of Escherichia coli-expressed recombinant dog ZP2 and ZP3 in a homologous animal model. <i>Reproduction</i> , 2002 , 123, 847-857 | 3.8 | 37 |
| 144 | Acrosome reaction: relevance of zona pellucida glycoproteins. <i>Asian Journal of Andrology</i> , 2011 , 13, 97-105 | 5.5 | 36 |
| 143 | Interleukin-11 increases invasiveness of JEG-3 choriocarcinoma cells by modulating STAT3 expression. <i>Journal of Reproductive Immunology</i> , 2009 , 82, 1-11 | 4.2 | 36 |
| 142 | Extracts from <i>Acacia catechu</i> suppress HIV-1 replication by inhibiting the activities of the viral protease and Tat. <i>Virology Journal</i> , 2013 , 10, 309 | 6.1 | 35 |
| 141 | LIF-STAT signaling and trophoblast biology. <i>Jak-stat</i> , 2013 , 2, e25155 | | 33 |
| 140 | Role of zona pellucida glycoproteins during fertilization in humans. <i>Journal of Reproductive Immunology</i> , 2015 , 108, 90-7 | 4.2 | 32 |
| 139 | Comparative analysis of the invasion-associated genes expression pattern in first trimester trophoblastic (HTR-8/SVneo) and JEG-3 choriocarcinoma cells. <i>Placenta</i> , 2012 , 33, 874-7 | 3.4 | 32 |
| 138 | Sequence of complementary deoxyribonucleic acid encoding bonnet monkey (<i>Macaca radiata</i>) zona pellucida glycoprotein-ZP1 and its high-level expression in Escherichia coli. <i>Biology of Reproduction</i> , 1997 , 57, 532-8 | 3.9 | 32 |
| 137 | Purified and refolded recombinant bonnet monkey (<i>Macaca radiata</i>) zona pellucida glycoprotein-B expressed in Escherichia coli binds to spermatozoa. <i>Biology of Reproduction</i> , 2001 , 64, 1147-52 | 3.9 | 30 |
| 136 | Failure of female baboons (<i>Papio anubis</i>) to conceive following immunization with recombinant non-human primate zona pellucida glycoprotein-B expressed in Escherichia coli. <i>Vaccine</i> , 2000 , 18, 2970-8 | 4.1 | 30 |
| 135 | Decrease in Expression of HOXA10 in the Decidua After Embryo Implantation Promotes Trophoblast Invasion. <i>Endocrinology</i> , 2017 , 158, 2618-2633 | 4.8 | 29 |
| 134 | Leukemia inhibitory factor increases the invasiveness of trophoblastic cells through integrated increase in the expression of adhesion molecules and pappalysin 1 with a concomitant decrease in the expression of tissue inhibitor of matrix metalloproteinases. <i>Fertility and Sterility</i> , 2013 , 99, 533-42 | 4.8 | 29 |

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| 133 | The Human Egg ³ Zona Pellucida. <i>Current Topics in Developmental Biology</i> , 2018 , 130, 379-411 | 5.3 | 28 |
| 132 | Mammalian neo-oogenesis and expression of meiosis-specific protein SCP3 in adult human and monkey ovaries. <i>Cell Cycle</i> , 2008 , 7, 683-6 | 4.7 | 28 |
| 131 | Bonnet monkey (<i>Macaca radiata</i>) ovaries, like human oocytes, express four zona pellucida glycoproteins. <i>Molecular Reproduction and Development</i> , 2008 , 75, 156-66 | 2.6 | 28 |
| 130 | Localization of epitopes for monoclonal antibodies at the N-terminus of the porcine zona pellucida glycoprotein pZPC. <i>Molecular Reproduction and Development</i> , 1995 , 42, 220-5 | 2.6 | 28 |
| 129 | Bioeffective monoclonal antibody against the decapeptide gonadotropin-releasing hormone: reacting determinant and action on ovulation and estrus suppression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985 , 82, 1228-31 | 11.5 | 28 |
| 128 | Role of proteasomal activity in the induction of acrosomal exocytosis in human spermatozoa. <i>Reproductive BioMedicine Online</i> , 2008 , 16, 391-400 | 4 | 27 |
| 127 | Immunocontraceptive potential of recombinant bonnet monkey (<i>Macaca radiata</i>) zona pellucida glycoprotein-C expressed in <i>Escherichia coli</i> and its corresponding synthetic peptide. <i>Reproductive BioMedicine Online</i> , 2001 , 2, 33-39 | 4 | 27 |
| 126 | Alpha or beta human chorionic gonadotropin knockdown decrease BeWo cell fusion by down-regulating PKA and CREB activation. <i>Scientific Reports</i> , 2015 , 5, 11210 | 4.9 | 25 |
| 125 | Preeclampsia: Disease biology and burden, its management strategies with reference to India. <i>Pregnancy Hypertension</i> , 2019 , 15, 23-31 | 2.6 | 25 |
| 124 | Zona pellucida-induced acrosome reaction in human spermatozoa is potentiated by glycodelin-A via down-regulation of extracellular signal-regulated kinases and up-regulation of zona pellucida-induced calcium influx. <i>Human Reproduction</i> , 2010 , 25, 2721-33 | 5.7 | 24 |
| 123 | Prospects of zona pellucida glycoproteins as immunogens for contraceptive vaccine. <i>Human Reproduction Update</i> , 1997 , 3, 311-24 | 15.8 | 24 |
| 122 | Native zona pellucida reactivity and in-vitro effect on human sperm-egg binding with antisera against bonnet monkey ZP1 and ZP3 synthetic peptides. <i>Journal of Reproductive Immunology</i> , 2002 , 56, 77-91 | 4.2 | 24 |
| 121 | Introduction of Haemophilus influenzae type b (Hib) as pentavalent(DPT-HepB-Hib) vaccine in two states of India. <i>Indian Pediatrics</i> , 2012 , 49, 707-9 | 1.2 | 23 |
| 120 | Molecular cloning and expression in <i>Escherichia coli</i> of cDNA encoding bonnet monkey (<i>Macaca radiata</i>) zona pellucida glycoprotein-ZP2. <i>Molecular Reproduction and Development</i> , 1998 , 50, 229-39 | 2.6 | 23 |
| 119 | Block in porcine gamete interaction by polyclonal antibodies to a pig ZP3 beta fragment having partial sequence homology to human ZP3. <i>Journal of Reproductive Immunology</i> , 1993 , 25, 277-83 | 4.2 | 23 |
| 118 | Phenyl hydrazone bearing pyrazole and pyrimidine scaffolds: design and discovery of a novel class of non-nucleoside reverse transcriptase inhibitors (NNRTIs) against HIV-1 and their antibacterial properties. <i>RSC Advances</i> , 2013 , 3, 17335 | 3.7 | 22 |
| 117 | STAT3 and ERK1/2 cross-talk in leukaemia inhibitory factor mediated trophoblastic JEG-3 cell invasion and expression of mucin 1 and Fos. <i>American Journal of Reproductive Immunology</i> , 2014 , 72, 65-74 | 3.8 | 22 |
| 116 | Introduction strategy of a second dose measles containing vaccine in India. <i>Indian Pediatrics</i> , 2011 , 48, 379-82 | 1.2 | 22 |

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| 115 | Update on zona pellucida glycoproteins based contraceptive vaccine. <i>Journal of Reproductive Immunology</i> , 2004 , 62, 79-89 | 4.2 | 22 |
| 114 | Evaluation of the immunocontraceptive potential of Escherichia coli expressed recombinant non-human primate zona pellucida glycoproteins in homologous animal model. <i>Vaccine</i> , 2002 , 21, 78-88 | 4.1 | 22 |
| 113 | Refolding, structural transition and spermatozoa-binding of recombinant bonnet monkey (Macaca radiata) zona pellucida glycoprotein-C expressed in Escherichia coli. <i>FEBS Journal</i> , 2000 , 267, 7075-81 | | 22 |
| 112 | Delineation of epitopes on porcine zona pellucida relevant for binding of sperm to oocyte using monoclonal antibodies. <i>Journal of Reproductive Immunology</i> , 1993 , 23, 265-79 | 4.2 | 22 |
| 111 | AP-1 transcription factors, mucin-type molecules and MMPs regulate the IL-11 mediated invasiveness of JEG-3 and HTR-8/SVneo trophoblastic cells. <i>PLoS ONE</i> , 2012 , 7, e29745 | 3.7 | 21 |
| 110 | Immunogenicity of zona pellucida glycoprotein-3 and spermatozoa YLP(12) peptides presented on Johnson grass mosaic virus-like particles. <i>Vaccine</i> , 2009 , 27, 2948-53 | 4.1 | 21 |
| 109 | Production of monoclonal antibodies against recombinant human zona pellucida glycoproteins: utility in immunolocalization of respective zona proteins in ovarian follicles. <i>Journal of Reproductive Immunology</i> , 2008 , 78, 102-14 | 4.2 | 21 |
| 108 | Induction of native protein reactive antibodies by immunization with peptides containing linear B-cell epitopes defined by anti-porcine ZP3 beta monoclonal antibodies. <i>Journal of Reproductive Immunology</i> , 1997 , 33, 113-25 | 4.2 | 20 |
| 107 | Antibodies generated in response to plasmid DNA encoding zona pellucida glycoprotein-B inhibit in vitro human sperm-egg binding. <i>Molecular Reproduction and Development</i> , 2002 , 62, 525-33 | 2.6 | 20 |
| 106 | Nucleotide sequence of cDNA encoding bonnet monkey (Macaca radiata) zona pellucida glycoprotein-ZP3. <i>Reproduction, Fertility and Development</i> , 1995 , 7, 1209-12 | 1.8 | 20 |
| 105 | Chrysin rich Scutellaria discolor Colebr. induces cervical cancer cell death via the induction of cell cycle arrest and caspase-dependent apoptosis. <i>Life Sciences</i> , 2015 , 143, 105-13 | 6.8 | 19 |
| 104 | Functional activity of human ZP3 primary sperm receptor resides toward its C-terminus. <i>Biology of Reproduction</i> , 2009 , 81, 7-15 | 3.9 | 19 |
| 103 | Immune physiology and oogenesis in fetal and adult humans, ovarian infertility, and totipotency of adult ovarian stem cells. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2009 , 87, 64-89 | | 19 |
| 102 | Higher frequency of Yq microdeletions in sperm DNA as compared to DNA isolated from blood. <i>Asian Journal of Andrology</i> , 2007 , 9, 720-2 | 2.8 | 19 |
| 101 | Solid-phase sandwich enzyme immunoassays of human chorionic gonadotropin using monoclonal antibodies. <i>Journal of Immunological Methods</i> , 1985 , 83, 159-68 | 2.5 | 19 |
| 100 | Study origin of germ cells and formation of new primary follicles in adult human and rat ovaries. <i>Methods in Molecular Biology</i> , 2008 , 450, 233-65 | 1.4 | 19 |
| 99 | Interdependence of JAK-STAT and MAPK signaling pathways during EGF-mediated HTR-8/SVneo cell invasion. <i>PLoS ONE</i> , 2017 , 12, e0178269 | 3.7 | 18 |
| 98 | Leukaemia inhibitory factor mediated proliferation of HTR-8/SVneo trophoblast cells is dependent on activation of extracellular signal-regulated kinase 1/2. <i>Reproduction, Fertility and Development</i> , 2011 , 23, 714-24 | 1.8 | 18 |

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| 97 | DNA vaccine for rabies: relevance of the trans-membrane domain of the glycoprotein in generating an antibody response. <i>Virus Research</i> , 2005 , 113, 143-52 | 6.4 | 18 |
| 96 | Production of large amounts of mouse polyclonal antisera. <i>Journal of Immunological Methods</i> , 1988 , 115, 195-8 | 2.5 | 18 |
| 95 | Azoospermia factor deletions in varicocele cases with severe oligozoospermia. <i>Indian Journal of Medical Sciences</i> , 2007 , 61, 505-10 | | 18 |
| 94 | EP domain of human zona pellucida glycoprotein-1 binds to human spermatozoa and induces acrosomal exocytosis. <i>Reproductive Biology and Endocrinology</i> , 2010 , 8, 110 | 5 | 17 |
| 93 | Efficacy of antibodies against Escherichia coli expressed chimeric recombinant protein encompassing multiple epitopes of zona pellucida glycoproteins to inhibit in vitro human sperm-egg binding. <i>Molecular Reproduction and Development</i> , 2003 , 65, 309-17 | 2.6 | 17 |
| 92 | Mapping of epitopes on porcine zona pellucida-3 alpha by monoclonal antibodies inhibiting oocyte-sperm interaction. <i>Biology of Reproduction</i> , 1996 , 55, 410-5 | 3.9 | 17 |
| 91 | HGF regulate HTR-8/SVneo trophoblastic cells migration/invasion under hypoxic conditions through increased HIF-1 α expression via MAPK and PI3K pathways. <i>Journal of Cell Communication and Signaling</i> , 2019 , 13, 503-521 | 5.2 | 16 |
| 90 | Investigation of Mixed Convection in a Ventilated Cavity in the Presence of a Heat Conducting Circular Cylinder. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015 , 67, 52-74 | 2.3 | 16 |
| 89 | Anti-HIV-1 activity, protease inhibition and safety profile of extracts prepared from Rhus parviflora. <i>BMC Complementary and Alternative Medicine</i> , 2013 , 13, 158 | 4.7 | 16 |
| 88 | Milestones in contraceptive vaccines development and hurdles in their application. <i>Human Vaccines and Immunotherapeutics</i> , 2014 , 10, 911-25 | 4.4 | 16 |
| 87 | Delineation of downstream signalling components during acrosome reaction mediated by heat solubilized human zona pellucida. <i>Reproductive Biology and Endocrinology</i> , 2010 , 8, 7 | 5 | 16 |
| 86 | Primate recombinant zona pellucida proteins expressed in Escherichia coli bind to spermatozoa. <i>Journal of Reproductive Immunology</i> , 2002 , 53, 67-77 | 4.2 | 16 |
| 85 | Efficacy of antibodies against a chimeric synthetic peptide encompassing epitopes of bonnet monkey (Macaca radiata) zona pellucida-1 and zona pellucida-3 glycoproteins to inhibit in vitro human sperm-egg binding. <i>Molecular Reproduction and Development</i> , 2005 , 70, 247-54 | 2.6 | 16 |
| 84 | Genetic and physiological study of morphologically abnormal human zona pellucida. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2012 , 165, 70-6 | 2.4 | 15 |
| 83 | Endometrial biology during trophoblast invasion. <i>Frontiers in Bioscience - Scholar</i> , 2012 , 4, 1151-71 | 2.4 | 15 |
| 82 | Contraceptive vaccines based on the zona pellucida glycoproteins for dogs and other wildlife population management. <i>American Journal of Reproductive Immunology</i> , 2011 , 66, 51-62 | 3.8 | 15 |
| 81 | Immunogenicity and contraceptive efficacy of Escherichia coli-expressed recombinant porcine zona pellucida proteins. <i>American Journal of Reproductive Immunology</i> , 2013 , 70, 139-52 | 3.8 | 14 |
| 80 | Zona pellucida-based contraceptive vaccines for human and animal utility. <i>Journal of Reproductive Immunology</i> , 2011 , 88, 240-6 | 4.2 | 14 |

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| 79 | Human zona pellucida glycoproteins: characterization using antibodies against recombinant non-human primate ZP1, ZP2 and ZP3. <i>Molecular Human Reproduction</i> , 1998 , 4, 1058-64 | 4.4 | 14 |
| 78 | Solid-phase competitive and sandwich-type erythro-immunoassays for human chorionic gonadotropin. <i>Journal of Immunological Methods</i> , 1985 , 80, 177-87 | 2.5 | 14 |
| 77 | Ellagic acid & gallic acid from <i>Lagerstroemia speciosa</i> L. inhibit HIV-1 infection through inhibition of HIV-1 protease & reverse transcriptase activity. <i>Indian Journal of Medical Research</i> , 2013 , 137, 540-8 | 2.9 | 14 |
| 76 | Properties and characteristics of an anti-human chorionic gonadotropin monoclonal antibody. <i>Journal of Biosciences</i> , 1982 , 4, 105-113 | 2.3 | 13 |
| 75 | Microbicides: a new hope for HIV prevention. <i>Indian Journal of Medical Research</i> , 2011 , 134, 939-49 | 2.9 | 13 |
| 74 | Design and anti-HIV activity of arylsulphonamides as non-nucleoside reverse transcriptase inhibitors. <i>Medicinal Chemistry Research</i> , 2016 , 25, 2842-2859 | 2.2 | 13 |
| 73 | Evaluation of recombinant fusion protein comprising dog zona pellucida glycoprotein-3 and Izumo and individual fragments as immunogens for contraception. <i>Vaccine</i> , 2014 , 32, 564-71 | 4.1 | 12 |
| 72 | Isolation of a high affinity neutralizing monoclonal antibody against 2009 pandemic H1N1 virus that binds at the B _{SA} Antigenic site. <i>PLoS ONE</i> , 2013 , 8, e55516 | 3.7 | 12 |
| 71 | Canine zona pellucida glycoprotein-3: up-scaled production, immunization strategy and its outcome on fertility. <i>Vaccine</i> , 2015 , 33, 133-40 | 4.1 | 11 |
| 70 | Wildlife population management: are contraceptive vaccines a feasible proposition?. <i>Frontiers in Bioscience - Scholar</i> , 2017 , 9, 357-374 | 2.4 | 11 |
| 69 | Vaccines for immunological control of fertility. <i>Reproductive Medicine and Biology</i> , 2010 , 9, 61-71 | 4.1 | 11 |
| 68 | B cell responses to a peptide epitope. II: Multiple levels of selection during maturation of primary responses. <i>Immunology and Cell Biology</i> , 1997 , 75, 245-52 | 5 | 11 |
| 67 | Characterization of immune response in mice to plasmid DNA encoding dog zona pellucida glycoprotein-3. <i>Vaccine</i> , 2003 , 21, 1913-23 | 4.1 | 11 |
| 66 | High level expression in <i>Escherichia coli</i> and purification of immunoreactive recombinant bonnet monkey zone pellucida glycoprotein-3. <i>Process Biochemistry</i> , 1999 , 35, 451-457 | 4.8 | 11 |
| 65 | Pregnancy interfering action of LHRH and anti-LHRH. <i>The Journal of Steroid Biochemistry</i> , 1985 , 23, 803-6 | | 11 |
| 64 | Epitomics: IgG-epitome decoding of E6, E7 and L1 proteins from oncogenic human papillomavirus type 58. <i>Scientific Reports</i> , 2016 , 6, 34686 | 4.9 | 10 |
| 63 | Graphene oxide decorated with Cu(I)Br nanoparticles: a reusable catalyst for the synthesis of potent bis(indolyl)methane based anti HIV drugs. <i>RSC Advances</i> , 2016 , 6, 23008-23011 | 3.7 | 10 |
| 62 | Clinical use of vaginal or rectally applied microbicides in patients suffering from HIV/AIDS. <i>HIV/AIDS - Research and Palliative Care</i> , 2013 , 5, 295-307 | 1.2 | 10 |

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| 61 | Relevance of syndecan-1 in the trophoblastic BeWo cell syncytialization. <i>American Journal of Reproductive Immunology</i> , 2011 , 66, 385-93 | 3.8 | 10 |
| 60 | DNA vaccine encoding chimeric protein encompassing epitopes of human ZP3 and ZP4: immunogenicity and characterization of antibodies. <i>Journal of Reproductive Immunology</i> , 2009 , 79, 137-47 | 4.2 | 10 |
| 59 | Antibody response against epitopes on hCG mapped by monoclonal antibodies in women immunized with an anti-hCG vaccine and its implications for bionutralization. <i>Journal of Reproductive Immunology</i> , 1993 , 25, 103-17 | 4.2 | 10 |
| 58 | Effect of excipients on dissolution enhancement of aceclofenac solid dispersions studied using response surface methodology: a technical note. <i>Archives of Pharmacal Research</i> , 2014 , 37, 340-51 | 6.1 | 9 |
| 57 | Dog zona pellucida glycoprotein-3 (ZP3): expression in Escherichia coli and immunological characterization. <i>Protein Expression and Purification</i> , 1998 , 12, 331-9 | 2 | 9 |
| 56 | Detection of antigens of Mycobacterium tuberculosis in patients of infertility by monoclonal antibody based sandwiched enzyme linked immunosorbent assay (ELISA). <i>Tubercle and Lung Disease</i> , 1993 , 74, 200-3 | | 9 |
| 55 | Antibody response against three epitopic domains on human chorionic gonadotropin (hCG) in women and rodents immunized with a beta hCG-based immunocontraceptive vaccine. <i>Journal of Clinical Immunology</i> , 1994 , 14, 162-8 | 5.7 | 9 |
| 54 | EGF-mediated reduced miR-92a-1-5p controls HTR-8/SVneo cell invasion through activation of MAPK8 and FAS which in turn increase MMP-2/-9 expression. <i>Scientific Reports</i> , 2020 , 10, 12274 | 4.9 | 9 |
| 53 | Role of STAT signaling and autocrine action of chemokines during H O induced HTR-8/SVneo trophoblastic cells invasion. <i>Journal of Cellular Physiology</i> , 2019 , 234, 1380-1397 | 7 | 8 |
| 52 | Production of tag-free recombinant fusion protein encompassing promiscuous T cell epitope of tetanus toxoid and dog zona pellucida glycoprotein-3 for contraceptive vaccine development. <i>Molecular Biotechnology</i> , 2013 , 54, 853-62 | 3 | 8 |
| 51 | Mapping of epitopes relevant for induction of acrosome reaction on human zona pellucida glycoprotein-4 using monoclonal antibodies. <i>American Journal of Reproductive Immunology</i> , 2012 , 68, 465-75 | 3.8 | 8 |
| 50 | Relevance of Wnt10b and activation of E-catenin/GCMA/syncytin-1 pathway in BeWo cell fusion. <i>American Journal of Reproductive Immunology</i> , 2017 , 78, e12676 | 3.8 | 7 |
| 49 | Forskolin-mediated BeWo cell fusion involves down-regulation of miR-92a-1-5p that targets dysferlin and protein kinase cAMP-activated catalytic subunit alpha. <i>American Journal of Reproductive Immunology</i> , 2018 , 79, e12834 | 3.8 | 7 |
| 48 | Decrease in invasion of HTR-8/SVneo trophoblastic cells by interferon gamma involves cross-communication of STAT1 and BATF2 that regulates the expression of JUN. <i>Cell Adhesion and Migration</i> , 2018 , 12, 432-446 | 3.2 | 7 |
| 47 | Contraceptive efficacy of recombinant fusion protein comprising zona pellucida glycoprotein-3 fragment and gonadotropin releasing hormone. <i>Journal of Reproductive Immunology</i> , 2016 , 114, 18-26 | 4.2 | 7 |
| 46 | HGF promotes HTR-8/SVneo cell migration through activation of MAPK/PKA signaling leading to up-regulation of WNT ligands and integrins that target E-catenin. <i>Molecular and Cellular Biochemistry</i> , 2019 , 453, 11-32 | 4.2 | 7 |
| 45 | Ovarian and oocyte targets for development of female contraceptives. <i>Expert Opinion on Therapeutic Targets</i> , 2015 , 19, 1433-46 | 6.4 | 7 |
| 44 | Colloidal Textile Dye-Based Dipstick Immunoassay for the Detection of Nuclear Polyhedrosis Virus (BmNPV) of Silkworm, Bombyx mori L.. <i>Journal of Invertebrate Pathology</i> , 1994 , 63, 135-139 | 2.6 | 7 |

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| 43 | Alkylated benzimidazoles: Design, synthesis, docking, DFT analysis, ADMET property, molecular dynamics and activity against HIV and YFV. <i>Computational Biology and Chemistry</i> , 2020 , 89, 107400 | 3.6 | 7 |
| 42 | Novel Sperm and Gonadotropin-releasing Hormone-based Recombinant Fusion Protein: Achievement of 100% Contraceptive Efficacy by Co-immunization of Male and Female Mice. <i>Molecular Reproduction and Development</i> , 2016 , 83, 1048-1059 | 2.6 | 7 |
| 41 | Herbal Gel Formulation Developed for Anti-Human Immunodeficiency Virus (HIV)-1 Activity Also Inhibits In Vitro HSV-2 Infection. <i>Viruses</i> , 2018 , 10, | 6.2 | 7 |
| 40 | Synthesis, anti-HIV activity, integrase enzyme inhibition and molecular modeling of catechol, hydroquinone and quinol labdane analogs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 302-7 | 2.9 | 6 |
| 39 | Synthesis, biological evaluation and molecular modeling studies of new 2,3-diheteroaryl thiazolidin-4-ones as NNRTIs. <i>Chemical Biology and Drug Design</i> , 2015 , 86, 1285-91 | 2.9 | 6 |
| 38 | Humanized antibody neutralizing 2009 pandemic H1N1 virus. <i>Biotechnology Journal</i> , 2014 , 9, 1594-603 | 5.6 | 6 |
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