



Seq. N.	Priority	Title	Inventors	Priority application	Extensions/Patent number	Licensing
78.	30.10.2019	Mycobacterium Tuberculosis mimic for immunization and enhancement of BCG Vaccine efficacy	Ved Prakash Dwivedi	INDIA 201911043992		Available
77.	25.09.2019	Anti-miRNA per il trattamento del leiomioma	Zacchigna, S., Ring, N.	ITA 102019000017234		Available
76.	20.07.2019	Novel cyanobacteria and a process for overexpression of carbon transporters in cyanobacteria to increase growth rate and glycogen accumulation	Srivastava, S., Gupta, J.K.	INDIA 201911029350		Available
75.	19.07.2019	Metabolic engineering of yeast for high level biodiesel production	Kumar, P., Gaur, N.A.	INDIA 201911029246		Available
74.	30.04.2019	Proteins with Cardioprotective Activity	Giacca, M., Ruozi, G., Bortolotti, F.	UK 1906052.4		Under Negotiation
73.	12.04.2019	CRISPR/Cas9 mediated engineering of E. coli strains for n-butanol production from xylose and glucose in defined medium	Yazdani, S.	INDIA 201911015864		Available
72.	09.04.2019	Genetically Engineered Membrane-Associated particulate Zika Virus Subunit Vaccine	Khanna, N., Rajgokul K., Shanmuga, Viswanathan R., Shukla R., Arora, U., Swaminathan, S.	INDIA 201911014359		Available
71.	18.02.2019	Method and point of care device for predicting treatment response for first line of tuberculosis drug regime	Mohammed, A., Malhotra, P., Kaul, S.	INDIA 201911006324 GB 1907759.3		Available
70.	07.12.2018	Use of Cocculus hisutus extract for treating dengue	Khanna, N., Poddar, A., Shukla, R.	INDIA 201821046412		Available
69.	15.02.2018	CRISPR/CAS9 Engineered rice for glyphosate tolerance and enhanced grain iron content and methods for producing thereof	Kaul, T.	INDIA 201811005694		Available
68.	13.02.2018	Inhibitors to target HIV-1 nef-CD80/CD86 interactions for therapeutic interventions	Jameel, S.	INDIA 201841005491		Available
67.	30.08.2012	Modified bacteria for the production of bioalcohols	Yazdani S.S., Munjal, N., Mattam, A.J.	INDIA 201713033293 Patent of addition to 2696/DEL/2012		Available
66.	30.10.2017	Phytase enriched tomato fruit	Kaul, T.	INDIA 201711038417		Available
65.	31.05.2017	Fungal strain with impaired catabolite repression for lignocellulosic degradation	Yazdani S.S., Anmol, R., Brajesh, B.	INDIA 201711019184		Under Negotiation
64.	14.03.2017	MicroRNA hsa-miR-665 in cardiac hypertrophy	Giacca, M., Braga, L., Dal Ferro, M., Mano, M., Eulalio, A.	EP 17160768.2	USA 16/493,569 EPO 18709043.6 Japan 2019-550570 China 201880017949.9	Available
63.	29.06.2016	A synergistic composition and process for preparation thereof	Sunil, S., Jain, J., Narayanan, V.	INDIA 201611022234		Available
62.	09.03.2016	Depeptide leucine- α - β dehydrophenylalanine based hydrogel	Chauhan, V.S., Yadav, N., Thota C. K.	INDIA 201611008172		Available
61.	23.12.2015	Method for enhanced fatty alcohol production in E. coli	Yazdani, S., Fatma, Z.	INDIA 4260/DEL/2015		Available
60.	24.11.2015	A modified human U1snRNA molecule, a gene encoding for the modified human U1snRNA molecule, an expression vector including the	Pagani, F., Pinotti, M.	US 14/950362		Under Negotiation



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		gene, and the use thereof in gene therapy of familial dysautonomia and spinal muscular atrophy.				
59.	11.09.2015	Method of utilization of carbon concentration mechanism in micro-algal species to increase production of lipids and obtain biofuel.	Kumar, S., Singh, A.K.	INDIA 2856/DEL/2015		Available
58.	01.09.2015	miR106b-25 cluster. Joint application with Maastricht University.	Giacca, M., de Windt, L., Dirkx, E.	EP 15183318.3		Available
57.	09.06.2015	A method for obtaining a composition for biomass hydrolysis.	Yazdani, S.S., Ogunmolu Funso, E.	INDIA 1714/DEL/2015	PCT WO2017006352A2 USA Appl.n 15/742,892 Notice for allowance received	UNDER NEGOTIATION
56.	10.02.2015	Over-expression of a rice-specific miRNA, miR820 leads to plant and panicle vigour.	Mishra, N.S., Sharma, N.	INDIA 361/DEL/2015	PCT/IN2016/050051	Available
55.	01.09.2014	Dengue subunit vaccine quadrivalent candidate DSV against all four DENV serotypes.	Khanna, N., Viswanathan, R.	INDIA 2478/DEL/2014	PCT/IB2015/056352 extended in Brazil,China, USA, JP, Canada, Mexico, EPO, Thailand, South Africa, Indonesia, Vietnam	LICENSED
54.	21.08.2014	Antimalarial Agents.	Mohammed, A., Malhotra, A., Mundra, S., Kotra, L. P.	US 62/017656		
53.	25.04.2014	Treatment of Crigler-najjar syndrome. Joint application with Genethon France.	Mingozi, F., Ronzitti, G., Collaud, F., Muro, A., Bortolussi, G.	EP 14305622.4-1410	USA, JP, China, Australia, Canada	UNDER NEGOTIATION
52.	17.04.2014	Compounds for induction of autophagy.	Sharma, A., Yogavel, M., Rao, K., Singh, V.	INDIA 1056/DEL/2014		
51.	17.04.2014	Novel autophagy inducing compounds.	Sharma, A., Yogavel, M., Rao, K., Singh, V.	INDIA 1055/DEL/2014		
50.	14.01.2014	Antimalarial Agents.	Kotra, L. P., Mohammed A., Malhotra, P., Chakka, S.K., Wei, L.	US 61/993136		Available
49.	06.09.2013	Engineering E.coli Strain for conservation of short chain fatty acids to Bioalcohols.	Yazdani S.S., Mattem, A.J.	INDIA 2651/DEL/2013		Available
48.	14.01.2013	A novel method to produce influenza A virus matrix protein M1capsid like particles.	Lal S., Baniyasi, V.	INDIA 91/DEL/2013		Available
47.	04.12.2012	A method for the isolation of small RNAs	Mishra, N. S., Mittal D.	INDIA 3710/DEL/2012		Available
46.	17.09.2012	Peptides for modulation drug resistance in yeast. Joint application with JNU.	Maurya, I. K., Tahota, K. C., Sharma, J., Chauhan, V.C., Prasad, R.	INDIA 2893/DEL/2012		Available
45.	30.08.2012	Pathways to enhance production of Bioalcohols in Bacteria/ Modified bacteria for the production of bioalcohol	Yazdani S.S., Munjal, N., Mattam, A.J.	INDIA 2696/DEL2012	US Patent Granted 16.12.2016 Chinese Patent Granted 24.02.2018	Available
44.	30.08.2012	Novel cellulolytic enzymes and their Chimera.	Yazdani S.S, Adlakha, N.	INDIA 2695/DEL/2012		Available
43.	30.08.2012	Method for stable expression of suppressors off RNAI in plants by direct genetic transformation of seeds.	Mishra, S. N., Das, S. S.	INDIA 2694/DEL/2012	US 14/015018	Available
42.	23.08.2012	Modified Amphipathic dipeptide based assembled nanoparticles: vehicles for targeted tumor drug delivery.	Chauhan, V.S., Shadab J. J.	INDIA 2612/DEL/2012		Available



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41.	20.01.2012	Novel compositions for the treatment and prevention of malaria.	Chauhan, V.S.	INDIA 177/DEL/2012	PCT/IN2013/000041	Available
40.	23.12.2011	microRNAs for cardiac regeneration through induction of cardiac myocyte proliferation.	Giacca, M., Zacchigna, S., Mano, M., Eulalio, A.	ITALY RM2011A000685	PCT/IB2012/057590 USA, Europe, Japan	Available
39.	13.06.2011	Pichia pastoris-expressed Dengue envelope-based virus like particles as safe, efficacious and inexpensive dengue subunit vaccines.	Mani, S., Tripathi, L., Kartik, D., Khanna, N., Swaminathan, S., Tyagi, P.	INDIA 1663/DEL/2011		LICENSED
38.	13.06.2011	Envelope Domain III based Dengue vaccine candidate using Hepatitis B virus core antigen virus like particles as modular display system	Arora, U., Tyagi, P., Khanna, N, Swaminathan, S.	INDIA 1662/DEL/2011		LICENSED
37.	01.06.2011	Combinations of multiple molecular target inhibitors for treatment of abnormal cell growth.	Rao, K., Jaiikhani, N., Ravichandran, S.	INDIA 1650/DEL/2011		Available
36.	14.03.2011	Carbon-nanotube modulation of myocyte cells. Joint application with University of Colorado and University of Trieste.	L. Mestroni, C. Long, J. Caldwell, L. Ballerini, M. Prato, G. Cellot, F.M. Toma, V. Martinelli, L. Zentilin	US 61/452,574 Provisional	PCT/U52012128930 EPO 12757040.6 US 14/005521	Available
35.	01.03.2011	Novel host factor as therapeutic targets for development of anti-tuberculosis. (Patent of addition to application 2089/DEL/2008) Joint application with Sphaera Pharma Pvt. Ltd.	Rao, K., Verma, D.K., Singh, V.	INDIA 548/DEL/2011		Available
34.	01.03.2011	Novel Composition for eliminating, reducing or retarding growth of drug resistant myco-bacteria. Joint application with Sphaera Pharma Pvt. Ltd.	Rao, K., Verma, D.K., Singh, V.	INDIA 547/DEL/2011		Available
33.	01.03.2011	Novel Composition for treatment of multi drug resistant mycobacterial infection. Joint application with Sphaera Pharma Pvt. Ltd.	Rao, K., Verma, D.K., Singh, V.	INDIA 546/DEL/2011		Available
32.	01.03.2011	Novel Composition for tuberculosis. Joint application with Sphaera Pharma Pvt. Ltd.	Rao, K., Verma, D.K., Singh, V.	INDIA 545/DEL/2011		Available
31.	15.10.2010	A modified human U1snRNA molecule, a gene encoding for the modified human U1snRNA molecule, an expression vector including the gene and the use thereof in gene therapy. Joint application with University of Ferrara.	Pagani, F., Pinotti, M.	ITALY TO2010A000840	PCT/IB2011/054573	ASSIGNED
30.	31.08.2010	Plant Cell Wall Hydrolyzing Enzymes Insect Mid-Gut Bacterium.	Yazdani, S.S., Adlakha, N.	INDIA 2071/DEL/2010		Available
29.	02.08.2010	Envelope domanin III based dengue vaccine candidate using HBsAg virus like particles as modular display system.	Khanna, N., Swaminathan, S., Dhar, N., Patil, A., Perween, G.C., Gurramkonda, G., Tyagi, P., Raut, R.	INDIA 1820/DEL/2010		LICENSED
28.	03.09.2009	An anti-malarial vaccine.	Chitnis, C., Singh, S., Alam, M.	INDIA 1814/DEL/2009		Available
27.	29.06.2009	Anticancer agent specific for brain tumors with mechanism of RECQ1 suppression.	Vindigni, A., Mendoza-Maldonado, R., Faoro, V., Odreman, F., Berti, M., Vindigni, M., Bonin, S., Skrap, M., Stanta, G.	ITALY RM2009A000328		Available
26.	23.01.2009	Anti dengue activity of Cissampelos pariera extracts. Joint application ICGEB - Ranbaxy Research Laboratory	Bhatnager, P.K., Katiyar, C.K., Khanna, N., Upadhyay, D.J., Swaminathan, S., Srinivas, K., Sharma, N., Kanaujia, A., Sood, R.,	INDIA 141/DEL/2009	European application no.2389184	Available



			Singhal, S., Shukla, G., Duggar, R., Pareek, P.K., Singh, Y., Khan, S., Raut, R.			
25.	04.09.2008	Screening and identification of novel host factors as therapeutic targets for design and development of anti tuberculosis drugs and process thereof.	Rao, K.V.S., Jayaswal, S., Kamal, M.A., Kumar, D.	INDIA 2089/DEL/2008 & 94/DEL/2009		Available
24.	01.09.2008	Use of small peptides corresponding to protein-protein interface residues of Plasmodium falciparum ClpQ protease (PfClpQ) and ClpY ATPase (PfClpY) or small drug like molecules designed based upon these peptides that interface with interaction of PfClpQ and PfClpY, as anti-malarial drugs.	Rathore, S., Sinha, D., Chauhan, V.S., Gupta, D., Mohammed, A.	INDIA 2057/DEL/2008		Available
23.	04.08.2008	Use of a novel plasmodium falciparum merozoite apical protein as malaria vaccine.	Mohammed, A., Chauhan, V.S.	INDIA 1844/DEL/2008		Available
22.	23.07.2008	A fusion protein malaria vaccine consisting of Plasmodium falciparum merozoite surface protein 1 and plasmodium falciparum merozoite surface protein 3.	Mazumdar, S., Yazdani, S.S., Mohammed, A., Chauhan, V.S.	INDIA 1737/DEL/2008	Indian patent granted 31.03.2017	Available
21.	23.07.2008	A method for rapid and high frequency of regeneration of genetically transformed calli of Indica rice cultivar.	Singla-Pareek, S.L., Kumar, K., Sopory, S.K.	INDIA 1736/DEL/2008	Indian patent granted 06.05.2019	Available
20.	23.07.2008	Self Assembled hydrogel containing α , β -dehydrophenylalanine residue (PHE) and process for preparation thereof.	Panda, J.J., Mishra, A., Chauhan, V.S.	INDIA 1735/DEL/2008		Available
19.	30.01.2008	Enzymatic composition of novel peptide(s) and protease(s) for degrading protease resistant proteins.	Bhatnagar, R., Gupta, R., Arora, N., Ramani, P.	INDIA 260/DEL/2008		Available
18.	23.01.2008	A humanized high affinity recombinant antibody against hepatitis B surface antigen. Joint application with All India Institute of Medical Sciences (AIIMS)	Tiwari, A., Sinha, S., Khanna, N., Acharya, S.K.	INDIA 190/DEL/2008		Available
17.	12.06.2007	A novel dengue envelope domain III - based tetravalent protein vaccine.	Khanna, N., Sathyamangalam, S.	INDIA 1259/DEL/2007	Indian patent granted 26.08.2017	LICENSED
16.	18.12.2006	A recombinant mouse-human chimeric Fab against Hepatitis B surface antigen. Joint application with 1.Department of Biotechnology (DBT) 2. All India Institute of Medical Sciences (AIIMS)	Sinha, S., Bose, B., Khanna, N., Acharya, S.K.	INDIA 2704/DEL/2006	Indian patent pending South African patent app. no. 2009/04338 granted 26.05.2010	Available
15.	01.11.2006	Conformationally restricted alpha, beta-dehydrophenylalanine residue and its use in design of peptide nanotubes.	Chauhan, V.S., Gupta, M., Mishra, A.	INDIA 2382/DEL/2006	Indian patent granted 23.12.2015	Available
14.	20.09.2005	Tetravalent Dengue specific domain III based chimeric recombinant protein as dengue diagnostic intermediated of high specificity for detection of both dengue IgM.	Khanna, N., Swaminathan, S., Batra, G., Hapugoda, M.	INDIA 2539/DEL/2005	Indian patent granted 11.07.2014	LICENSED



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13.	26.05.2005	A pharmaceutical composition useful for the treatment of hepatocellular carcinoma. Joint application with CSIR.	Saxena, A.K., Gupta, B.D., Kapahi, B.K., Shanmugavel M., Mondhe, D.M., Qazi, G.N., Mathan, G., Kumar, V.	INDIA 1356/DEL/2005	PCT/IB2006/001355 Japan app. 2008512941 EP app. 1883453	Available
12.	25.08.2005	De novo designated and synthesized cationic amphipathic peptides.	Sahal, D., Chetal, P., Ananthanaram, A., Chauhan, V.S.	INDIA 1343/DEL/2005		Available
11.	31.12.2004	A novel selectable marker system for transgenic plants.	Singla-Pareek, S.L, Yadav, S.K., Reddy, M.K., Sopory, S.K.	INDIA 2618/DEL/2004	Indian patent granted 14.08.2015	Available
10.	31.12.2004	A new antifungal protein isolated from the seeds of chickpea, methods for isolation of such proteins, cloning of the encoding gene and transgenic plants incorporating such genes.	Reddy, V.S., Hassairi, A., Islam, A.	INDIA 2617/DEL/2004		Available
9.	19.04.2004	Extraction of latex of <i>Calotropis procera</i> and a process for the preparation thereof. Joint application with All India Institute of Medical Sciences (AIIMS)	Kumar, V.L., Kumar, V.	INDIA 737/DEL/2004		Available
8.	15.12.2003	Biopesticides for controlling inter alia sugarcane pests. Joint application with PDKV.	Bhatnagar, R.K., Rajagopal, R., Rao, N.G.V.	INDIA 1549/DEL/2003	Indian patent granted 3.01.2017	Tech Transfer
7.	18.09.2003	Overexpression of foreign genes in plants.	Reddy, V.S., Leelavathi, S., Nguyen, H.T.	INDIA 1164/DEL/2003	Indian patent granted 1.07.2011	Available
6.	07.08.2003	Novel recombinant dengue multiepitope (r-DME) proteins as diagnostic intermediates. Joint application with DRDO.	Khanna, N., Ananda Rao, R., Jana, A.M.	INDIA 974/DEL/2003	Indian patent granted 30.12.2011	Available
5.	17.10.2001	A method for preparing scar primers for use in marker assisted selection of rice varieties susceptible to attack by Gall Midge biotypes; method for preparing the same and method for screening rice varieties.	Mohan, M., Nair, S., Kumar, A., Sandesai, N.	INDIA 1065/DEL/2001	Indian patent granted No. 194336	Licensed
4.	02.08.2001	Process for xylanase production. Joint application with IMTECH	Reddy, V.S., Leelavathi, S., Gupta, N., Maiti, S., Ghosh, A.	INDIA 209/DELNP/2004 & 3161/DELNP/2011		Available
3.	03.08.1999	Immunisation against <i>Herpes Simplex</i> virus.	Baralle, F.E., Fló, J., Tisminetzky, S.	UK	US	Licensed
2.	22.09.1997	Screening Method for determining individuals at risk of developing diseases associated with different polymorphic forms of wildtype p53.	Matlashewski et al.	UK 98941189.7	PCT/CA98/00828 US CANADA EPO	Available
1.	11.09.1995	Process for the preparation of very high purity gamma interferon.	Khanna N.	INDIA 1662/211/95	Indian patent granted	Available



N. 68 & N. 76 under negotiation in Advanced Enzymes agreement.