



ICGEB ACTIVE PATENTS & PATENT APPLICATIONS

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Seq. N.	Priority	Title	Inventors	Country of Deposit Application n.	Extensions	Licensing
80.	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
79.	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
78.	30.10.2017	Phytase enriched tomato fruit	Kaul, T.	INDIA 201711038417		Available
77.	01.09.2017	Novel insecticidal molecules, compositions thereof, methods of preparing thereof	Bhatnagar, R., Sachdeva, B.	INDIA 201711031010		Available
76.	31.05.2017	Fungal strain with impaired catabolite repression for lignocellulosic degradation	Yazdani S.S., Anmol, R., Brajesh, B.	INDIA 201711019184		UNDER NEGOTIATION
75.	14.03.2017	MicroRNA hsa-miR-665 in cardiac hypertrophy	Giacca, M., Braga, L., Dal Ferro, M., Mano, M., Eulalio, A.	EP 17160768.2	PCT/EP2018/056230	Available
74.	29.06.2016	A synergistic composition and process for preparation thereof	Sunil, S., Jain, J., Narayanan, V.	INDIA 201611022234		Available
73.	09.03.2016	Depeptide leucine- α - β dehydrophenylalanine based hydrogel	Chauhan, V.S., Yadav, N., Thota C. K.	INDIA 201611008172		Available
72.	23.12.2015	Method for enhanced fatty alcohol production in E. coli	Yazdani, S., Fatma, Z.	INDIA 4260/DEL/2015		Available
71.	24.11.2015	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 of familial dysautonomia and spinal muscular atrophy.	Pagani, F., Pinotti, M.	US 14/950362		UNDER NEGOTIATION
70.	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
69.	01.09.2015	miR106b-25 cluster. Joint application with Maastricht University.	Giacca, M., de Windt, L., Dirkx, E.	EP 15183318.3		Available
68.	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	UNDER NEGOTIATION
67.	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
66.	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 China, USA, JP, Canada, Mexico & Europe	LICENSED
65.	21.08.2014	Antimalarial Agents.	Mohammed, A., Malhotra, A., Mundra, S., Kotra, L. P.	US 62/017656		
64.	25.04.2014	Treatment of Crigler-najjar syndrome. Joint application with Genethon France.	Mingozzi, F., Ronzitti, G., Collaud, F., Muro, A., Bortolussi, G.	EP 14305622.4-1410	USA, JP, China, Australia, Canada	UNDER NEGOTIATION
63.	17.04.2014	Compounds for induction of autophagy.	Sharma, A., Yogavel, M., Rao, K., Singh, V.	INDIA 1056/DEL/2014		
62.	17.04.2014	Novel autophagy inducing compounds.	Sharma, A., Yogavel, M., Rao, K., Singh, V.	INDIA 1055/DEL/2014		



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61.	14.01.2014	Antimalarial Agents.	Kotra, L. P., Mohammed A., Malhohtra, P., Chakka, S.K., Wei, L.	US 61/993136		Available
60.	06.09.2013	Engineering E.coli Strain for conservation of short chain fatty acids to Bioalcohals.	Yazdani S.S., Mattem, A.J.	INDIA 2651/DEL/2013		Available
59.	14.01.2013	A novel method to produce influenza A virus matrix protein M1capsid like particles.	Lal S., Baniasadi, V.	INDIA 91/DEL/2013		Available
58.	04.12.2012	A method for the isolation of small RNAs	Mishra, N. S., Mittal D.	INDIA 3710/DEL/2012		Available
57.	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
56.	30.08.2012	Pathways to enhance production of Bioalcohals in Bacteria/ Modified bacteria for the production of bioalcohol	Yazdani S.S., Munjal, N., Mattam, A.J.	INDIA 2696/DEL2012	PCT/IN2013/000535 China, USA	Available
55.	30.08.2012	Novel cellulolytic enzymes and their Chimera.	Yazdani S.S, Adlakha, N.	INDIA 2695/DEL/2012		Available
54.	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
53.	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
52.	20.01.2012	Novel compositions for the treatment and prevention of malaria.	Chauhan, V.S.	INDIA 177/DEL/2012	PCT/IN2013/000041	Available
51.	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
50.	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
49.	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
48.	01.06.2011	Combinations of multiple molecular target inhibitors for treatment of abnormal cell growth.	Rao, K., Jailkhani, N., Ravichandran, S.	INDIA 1650/DEL/2011		Available
47.	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
46.	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
45.	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
44.	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
43.	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



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42.	19.01.2011	Immunotherapy of Infectious Diseases.	Das, G., Majumdar, T., Rao, K.	INDIA 124/DEL/2011		Available
41.	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
40.	31.08.2010	Plant Cell Wall Hydrolyzing Enzymes Insect Mid-Gut Bacterium.	Yazdani, S.S., Adlakha, N.	INDIA 2071/DEL/2010		Available
39.	02.08.2010	Envelope domain 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
38.	08.06.2010	De novo designed cationic amphipathic antibacterial peptides.	Chauhan, V.S., Pathak S., Gupta, M.	INDIA 1327/DEL/2010		Available
37.	03.09.2009	An anti-malarial vaccine.	Chitnis, C., Singh, S., Alam, M.	INDIA 1814/DEL/2009		Available
36.	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
35.	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., Singhal, S., Shukla, G., Duggar, R., Pareek, P.K., Singh, Y., Khan, S., Raut, R.	INDIA 141/DEL/2009	PCT/IB2010/050299	Available
34.	05.09.2008	Pharmaceutical compositions containing calcium channel blockers for treatment of Tuberculosis.	Gupta, S., Singla, R., Behera, D., Khayyam, K.U., Korde, R., Malhotra, P., Natarajan K.	INDIA 2101/DEL/2008		Available
33.	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
32.	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
31.	06.08.2008	Peptide from proregion of proteases inhibition of parasitic and infectious organisms.	Malhotra, P., Korde, R., Bhatnagar, R., Chauhan, V.S.	INDIA 1863/DEL/2008		Available
30.	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
29.	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		Available



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28.	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		Available
27.	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
26.	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
25.	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	PCT/IN2008/00796	Available
24.	12.06.2007	A novel dengue envelope domain III - based tetravalent protein vaccine.	Khanna, N., Sathyamangalam, S.	INDIA 1259/DEL/2007		LICENSED
23.	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	PCT/IN2007/00403	Available
22.	15.09.2006	A virus-like particle (VLP) candidate vaccine for hepatitis E produced in <i>Escherichia coll.</i>	Jameel, S., Yazdani, S., Pani, B., Ganti, K.P., Khan, S.A.	INDIA 2040/DEL/2006		Available
21.	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		Available
20.	25.05.2006	Development of MY MIV based gene silencing vectors.	Mukherjee, S.K.	INDIA 1267/DEL/2006		Available
19.	20.09.2005	Tetravalent Dengue specific domain III based chimeric recombinant protein as dengue diagnostic intermediated of high specificity for detencion of both dengue IgM.	Khanna, N., Swaminathan, S., Batra, G., Hapugoda, M.	INDIA 2539/DEL/2005		LICENSED
18.	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
17.	25.05.2005	De novo designated and synthesized cationic amphipathic peptides.	Sahal, D., Chetal, P., Ananthanaram, A., Chauhan, V.S.	INDIA 1343/DEL/2005		Available
16.	25.05.2005	A Method of treating a plant to make it salt tolerant; a vector for use in the said treatment and its sequence thereof.	Bhattacharjee, B., Nair, S., Mohan, M., Vashisht, A.A., Tuteja, N.	INDIA 1340/DEL/2005 (including application patents 1341/DEL/2005 & 1342/DEL/2005)		Available
15.	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		Available
14.	31.12.2004	A new antifungal protein isolated from the seeds of chickpea, methods for isolation of such proteins, cloning of the encoding gene	Reddy, V.S., Hassairi, A., Islam, A.	INDIA 2617/DEL/2004		Available



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		and transgenic plants incorporating such genes.				
13.	26.08.2004	Regeneration of plants and medium for use thereof.	Bhattacharjee, B., Nair, S., Mohan, M.	INDIA 1602/DEL/2004		Available
12.	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
11.	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		Tech Transfer
10.	18.09.2003	Overexpression of foreign genes in plants.	Reddy, V.S., Leelavathi, S., Nguyen, H.T.	INDIA 1164/DEL/2003	PCT/IN2004/00294	Available
9.	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	PCT/IN2004/00237 SRI LANKA	Available
8.	16.04.2003	Conscious evolution of proteins through codon huffling.	Ranganathan, A., Chopra, S.	INDIA 609/DEL/2003		Available
7.	01.07.2002	Method for screening a candidate substance as a potential drug for the treatment of malaria.	Sahal, D., Kannan, R., Chauhan, V.S.	INDIA 4136/DELNP/2004 & 705/DEL/2002		Available
6.	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	PCT/IN2002/00212	Licensed
5.	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
4.	03.08.1999	Immunisation against <i>Herpes Simplex</i> virus.	Baralle, F.E., Fló, J., Tisminetzky, S.	UK	US	Licensed
3.	23.09.1998	A bicistronic DNA construct comprising X-myc transgene for use in production of transgenic animal model systems for human hepatocellular carcinoma and transgenic animal model systems so produced. Joint application with NII	Kumar, V., Singh, M., Totey, S.M., Anand, R.K	INDIA 2858/DEL/1998	US patent appl. 09/243,282	Available
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		Available