

PATENT PORTFOLIO UNIVERSITY OF DELHI

PATENT APPLICATIONS FILED (In chronological order with latest on the top)

Invention S.No.	Title of Inventions	Inventors	Country	Patent Application Number	Application Date	Publication Date/ Grant Date	Publication No./ Patent No./ Remarks	Departments/ Colleges/Centres
1	An Insect Rearing Multipurpose Chamber Useful for Controlled Live Entomological Studies	HarpreetsinghRaina, Rajagopal Raman	India	201811006741	22-02-2018 (complete)		(Application not yet published)	Department of Zoology
2	Electric Field Assisted Low Power Consuming Conductometric Gas Sensor	Vinay Gupta, Monika tomar, Anjali Sharma, Avneetsingh	India	201811006329	20-02-2018 (Provisional)		(Application not yet published)	Department of Physics and Astrophysics
3	A Novel Anti-Hypertensive Cardio-Protective Composition	SumanKundu, BittiandaKuttapa Thelma, GopalaiahKovuru, Pankaj Prabhakar, Sanjay Kumar Dey	India	201811005899	16-02-2018 (Provisional)		(Application not yet published)	Department of Biochemistry
4	A Computer Implemented Method for Document Ranking and a System thereof	Aditya Gupta, VasudhaBhatnagar	India	201811005936	16-02-2018 (Provisional)		(Application not yet published)	Department of Computer Science
5	Novel Anti-Hypertensive Dopamine B-Hydroxylase (DBH) Inhibitors	SumanKundu, BK Thelma, Pankaj Prabhakar& Sanjay Kumar Dey	India	201711036983	18-10-2017 (Provisional)		(Application not yet published)	Department of Biochemistry
6	Novel Anti-Malarial Liposomal Formulation	Prahlad Chandra Ghosh, Alo Nag, MohsinRaza, AakritiSingalandHinaBharti	India	201711016131	08-05-2017 (Provisional) 15-02-2018 (Complete)		(Application not yet published)	Department of Biochemistry

7	Novel High Yielding Economical, Eco-Friendly and Selective Method for the Preparation of Deuterated Alkyl Arenes	Akhilesh Kumar Verma, Monika Patel, Rakesh Kumar Saunthwal	India	201711013462	17-04-2017 (Provisional) 15-01-2018 (Complete)		(Application not yet published)	Department of Chemistry
8	A Sensitive and Rapid Sensor for Inflammable Fuel Gases	Vinay Gupta, Monika Tomar, Anjali sharma, Avneet Singh, Parivesh Chugh, Jaiviner Singh & Barathy Subramanian	India	201711011941	03-04-2017 (Provisional) 29-06-2017 (Complete)		(Application not yet published)	Department of Physics & Astrophysics
9	Novel Antimalarial Dispiro-1,2,4,5-Tetraoxanes and One Pot Method of Synthesis thereof	Satish Kumar Awasthi & Arvind Kumar	India	201611034971	13-10-2016 (provisional) 12-10-2017 (complete)	Published on 13-04-2018	Published in J. No. 15/2018	Department of Chemistry
10	Regulate Expression Of Insecticidal Proteins only in the Green Tissues of Cotton	Amarjeet Kumar Singh, Paritosh Kumar, Pradeep Kumar Burma, Deepak Pental	India	201611022018	27-06-2016 (Provisional) 13-05-2017 (Complete)	Published on 16-02-2018	Published in J. No. 07/2018	Centre for Genetic Manipulation of Crop, UDSC
11	Transgenic Event in Cotton with CRY1AC Gene	Amarjeet Kumar Singh, Paritosh Kumar, Pradeep Kumar Burma,	India	201611018037	05/25/2016	Published on 01-	Published in J. No. 48/2017	Centre for Genetic Manipulation of

		Deepak Pental				12-2017		Crops, UDSC
12	Single Step Method for Individual Synthesis of Ortho, Meta And Para-Diphenylphosphino Anilines	Rajeev Gupta; Sushil Kumar; Ram Kishan	India	201611008186	3/9/2016	Published on 15-09-2017	Published in J. No. 37/2017	Department of Chemistry
13	Novel Therapeutic Agents Useful for Human Papilloma Virus Induced Cervical Cancer Therapy	A. Nag; S. Kundu; V. Chand; A. Kapoor	India	201611003939	02/04/2016		(Application not yet published)	Department of Biochemistry
14	A Device for Measuring Trigonometric Functions	Pankaj Tyagi; Kamal Ranjan; Vikas Tomar; Jyoti Sharma; Raghvendra Tripathi	India	1068/DEL/2015	(provisional) 16-04-2015 (Complete) 12-04-2016	Published on 21-10-2016	Published in J.No. 44/2016	Cluster Innovation Centre
15	Novel Brominated Phenothiazine Scaffolds and Methods thereof	M.D. Milton; Swati Bishnoi	India	2110/DEL/2014	(provisional) 25-07-2014 (Complete) 16-02-2015	Published on 31-08-2016	Published in J.No. 36/2016	Department of Chemistry
16	A Herbal Compound From Glycine Max Seeds for Controlling Diabetes and Dyslipidemia	Suman Bala Sharma; Richa Gupta; Raja Roy	India	481/DEL/2014	02/19/2014	Published on 21-08-2015	Published in J.No. - 34/2015	University College of Medical Sciences (A Constituent College of University of Delhi)
17	A Method And Apparatus For Identification of Heterosis in Indica Rice Hybrid	V. Baranwal; A.K. Tyagi; S. Kapoor; P. Umate Maupriya; V. Mikkilineni; U. Zehr; L.M.M. Reddy	India	3458/DEL/2013	27-11-2013 (provisional)	Published on 31-08-2016	Published in J.No. 36/2016	Department of Plant Molecular Biology

	<u>Co-Applicant:</u> Maharastra Hybrid Seed Company Ltd. (Mahyco) and Department of Biotechnology				25-11-2014 (complete)			
18	Semantic Integration and Cataloguing of Biological Experimental <u>Co-Applicant:</u> Department of Biotechnology	SaurabhRaghuvanshi; Rashmi Jain; PriyankaGarg; PratibhaGour; Shaji V Joseph; Akhilesh Kumar Tyagi	India	1152/DEL/2013	17-10-2013 (Provisional) 16-10-2014 (Complete)	Published on 24-04-2015	Published in J.No. 17/2015	Department of Plant Molecular Biology
19	A Method of Transient Expression Of Gene of Interest in Plants Using a Plant DNA Virus Based Vector <u>Co-Applicant:</u> Department of Biotechnology	NabantaGogoi; IndranilDasgupta	India	2660/DEL/2013	09-09-2013	Published on 13-03-2015	Published in J. No. 11/2015	Department of Plant Molecular Biology
20	Method for Bio-Bleaching of Wood Kraft Pulps <u>Co-Applicant:</u> Central Paper and Pulp Research Institute	Ramesh ChanderKuhad; R. K Jain; VaddeVasanta Thakur; AbhaSharma; Vipin Gupta; R.M Mathur	India	2447/DEL/2013	19-08-2013	Published on 20-09-2013	Published in J.No. 38/2013	Department of Microbiology
21	A Process of Producing Orf-Enriched Phage Display Library and Uses thereof	Amita Gupta; Vijay Kumar Chaudhary; NimishaShrivastava	India	2346/DEL/2013	08/06/2013	Published on 06-05-2016	Published in J. No. 19/2016	Department of Biochemistry
22	Curcumin Analogs and Methods of Making and Using thereof	Diwan S. Rawat; Binghe Wang; Nitin Kumar; Sunny Manohar; XiaochuanYANG; Guojing Sun; Nanting Ni	PCT	PCT/US2013/053216	08/01/2013	Published on 06-02-2014	Publication No. WO2014022660 (A1)	Department of Chemistry

	<u>Co-Applicant:</u> Georgia State University Research Foundation, Inc., (US)		USA	14/418,025	08/01/20 13	Patent granted on 06- 02-2018	Patent No. US9884825 (B2)	
23	A Novel Beacon-Based Diagnostic Probe/Tool/Kit for Detection of Translocation 8;21 In Acute Myeloid Leukemia Patients and Method of Working for the Same <u>Co-Applicant:</u> Department of Biotechnology	Daman Saluja; RashiArora; SunitaJetly	India	1568/DEL/201 3	24-05- 2013	Publishe d on 08-11- 2013	Published in J. No. 45/2013	Dr. B.R. Ambedkar Center for Biomedical Research (ACBR)
24	A New Fluorescent Beacon Probe Diagnostic Tool/Kit For Molecular Detection of Translocation T(9;22)/Bcr- AbII in Leukemic Patients and Method of Working for the Same <u>Co-Applicant:</u> Department of Biotechnology	Daman Saluja; RashiArora; SunitaJetly	India	1569/DEL/201 3	24-05- 2013	Publishe d on 08-11- 2013	Published in J. No. 45/2013	Dr. B.R. Ambedkar Center ForBiomedical Research (ACBR)
25	A Process For Producing Aromatic Carboxylic Acids By Oxidation of Methyl Arenes	BasudebSaha; SasankaDeka; Dinesh Gupta; KalyanJyotiDeori	India	1346/DEL/201 3	05/07/20 13	Publishe d on 12-12- 2014	Published in J. No. 50/2014	Department of Chemistry
26	A Molecular Beacon- Mediated Oligonucleotide- Based Diagnosticprobe/Tool/Kit for Detection of Trichomonas vaginalis and Method of Working for Same	Daman Saluja	India	1098/DEL/201 3	04/12/20 13	Publishe d on 03- 01-2014	Published in J. No. 01/2014	Dr. B.R. Ambedkar Center for Biomedical Research(ACBR)
27	Production of Rifamycin B Analog 24- Desmethylrifamycin B By	Lal Rup; Mahmud Taifo	India	690/DEL/2013	20-03- 2013	Publishe d on 12- 12-2014	Published in J. No. 50/2014	Department of Zoology

	Swapping Acyl Transferase of Module 6 (Propionate Specific) Domain of RifamycinPolyketide Synthase (Pks) Gene Cluster of AmycotatopsisMediterranei S699 with that Acyl Transferase of Module 2 (Acetate Specific) Domain of Rapamycin PKS Gene Cluster Co-Applicant: Department of Biotechnology and University of Oregon							
	Antibacterial Compounds Against Drug Resistant Bacteria		PCT	PCT/IB2014/059989	20-03-2014	Published on 25-09-2014	Publication No. WO2014147578 (A2)	
			China	201480029144	20-03-2014	Published on 06-01-2016	CN105228617 (A)	
			Russia	2015144539	20-03-2014	Published on 20-04-2017	RU2015144539 A	
28	A Composition for Developing Latent Impression Marks and Process for Preparing the Same	G.S. Sodhi; GurvinderKaur; KomalKamra; V.N. Segal; ManmeetKaur; SimranKaur; RiyaPangasa; A.M.S. Rawat; JasviderKaur; Abhinav; Vaishali Jain; RuchikaTripathi; N. L. Dutta; FerozaRehman of G.T.B. K. College	India	470/DEL/2013	(Provisional) 19-02-2013 (Complete) 19-02-2014	Published on 29-08-2014	Published in J. No. 35/2014	Guru TeghBahadurKhalsa College (Chemistry Dept.)
29	Nutritional Compositions and Methods for Manufacturing the Same	Syed Umair; MeenakshiGarg; Shivani G. Varmani; SusmitaDey Sadhu; Harsh Chauhan; TriptiNegi; NiteshSahu; Shivangi Jain; AnneshaDutta; Hemant Joshi; AnshumanSoni; RishabHanda;	India	471/DEL/2013	(provisional) 19-2-2013 (Complete)	Published on 29-8-2014	Publication No. 35/2014	Bhaskaracharya College of Applied Sciences (Food Technology)

		AnkitGarg; of BCAS College			e) 18-02- 2014			
30	Solar Water Distiller	Ram Tandon; Swati arora; samtaGoyal; anuradhaMarwah; Mohammad Fahim Ansari of ZH College	India	472/DEL/2013	(Provisio nal) 19-02- 2013 (Comple t e) 19-02- 2014	Publishe d on 29- 08-2014	Published in J. No. 35/2014	ZakirHussain Delhi College (Physics Dept.)
31	Coating Compositions and Methods for Preparation thereof	AnshumanSoni; SusmitaDey Sadhu; Shvani G. Varmani; MeenakshiGarg; Harsh Chauhan; TriptiNegi; NiteshSahu; Shivangi Jain; AnneshaDutta; Syed Umais; Hemant Joshi; of BCAS college	India	473/DEL/2013	(Provisio nal) 19-2- 2013 (Comple t e) 18-02- 2014	Publishe d on 29-08- 2014	Published in J. No. 35/2014	Bhaskaracharya College of Applied Sciences (Food Technology)
32	A Novel Oligonucleotide - Based Diagnostic Probe/Tool/Kit for Tuberculosis Detection And Method of Working for Same <u>Co-Applicant:</u> Union of India through Secretary DBT	Prof. Dr. Daman Saluja; Mr. ManojNimesh; Ms. DeepaliJoon	India	77/DEL/2013	01/10/20 13	Publishe d on 22- 08-2014	Published in J. No. 34/2014	Dr. B.R. Ambedkar Center for Biomedical Research (ACBR)
33	A Bio-Conversion Method To Improve Nutritional Properties of Lignocellulosic Residues <u>Co-Applicant:</u> Department of Biotechnology & Ayurved Limited	Ramesh ChanderKuhad; BhuvneshShrivastava; AnupKalra	India	4039/DEL/201 2	28-12- 2012	Publishe d on 31-05- 2013	Published in J. No 22/2013	Department of Microbiology
34	Rice Promoters and Uses	Akhilesh Kumar Tyagi; Sanjay	India	1103/DEL/201	04/11/20	09/25/20	Published in	Department of Plant

	thereof <u>Co-Applicant:</u> Department of Biotechnology	Kapoor; ReemaKhurana		2	12	15	J. No. 39/2015	Molecular Biology
35	Aminoquinoline Derivatives and Uses thereof <u>Co-Applicant:-</u> The Mclean Hospital Corporation (Us), University of Delhi (In)	Diwan S Rawat, Sunny Manohar, UmmadisettyChinna Rajesh, Deepak Kumar, Anuj Thakur, MohitTripathi, PanyalaLinga Reddy, ShamseerKulangaraKandi,Satyapa vanVardhini, Kwang-Soo Kim, Chun-Hyung Kim	India	661/DEL/2012	03/07/2012	Patent granted on 29-05-2017	Patent No. 283657	Department of Chemistry
			PCT	PCT/US2013/028329	28-2-2013	Published on 31-10-2013	Publication No. WO2013134047	
			USA	14/382,727	09/03/2014	Patent Granted on 14-02-2017	Patent granted No. US9567316	
			Europe	13758678	10/03/2014	Published on 14-01-2015	Publicatino No. EP2822936	
			USA (Divisional)	15/404,964	01/12/2017	Published on 27-07-2017	Publication No. US2017/0209441	
36	A Synergistic Herbal Composition for Prevention and Treatment of Diabetic Retinopathy and Cataract <u>Co-Applicant:</u> Promed Research Centre , Gurgaon Delhi Institute Of Pharmaceutical Sciences & Research; University of Delhi	Deepak Bahri; Shrikant Gaur; Suresh Kumar Gupta; Srinivasan, Bhartur, Parthasarathy; Ram Kumar Gupta; AshutoshAggarwal; Binit Kumar; SushmaSrivastava; RohitSaxena	India	3134/DEL/2011	11/03/2011	Published on 03-05-2013	Published in J. No.18/2013	Delhi Institute Of Pharmaceutical Sciences & Research (Dipsar)
			PCT	PCT/IB2012/056105	11/02/2012	Published on 10-5-2013	Publication No. WO2013065015	
			Eurasia	201490712	04/28/2014	Patent granted on 30-11-2017	Patent No. EA028459	
37	Polynucleotides Encoding Heat Shock Transcription Factor and Uses thereof	Khurana, Paramjit Harsh Chauhan; Jitendra Paul Khurana	India	1700/DEL/2011	06/15/2011	Published on 21-12-2012	Published in J. No. 51/2012	Department of Plant Molecular Biology

38	N-Protected Isatin Compounds <u>Co-Applicant:</u> Council of Scientific & Industrial Research	Balaram Ghosh; Virinder Parmar Singh; Ashok Kumar Prasad; Gaiinda Lal Sharma; Sakshi Balwani; Shashwath Malhotra; Seema Singh	India	1591/DEL/2011	06/03/2011	Published on 07-12-2012	Published in J. No. 49/2012	Department of Chemistry
39	Abiotic And Heavy Metal Stress-Inducible NBS-STRL Promoter from Rice <u>Co-Applicant:</u> Department of Biotechnology	Akhilesh Kumar Tyagi; Sanjay Kapoor; Swatimita Ray	India	1403/DEL/2011	05/12/2011	Published on 16-11-2012	Published in J. No. 46/2012	Department of Plant Molecular Biology
40	Abiotic and Heavy Metal Stress-Inducible NBS-STRL Promoter from Rice <u>Co-Applicant :</u> Department of Biotechnology	Akhilesh Kumar Tyagi; Sanjay Kapoor; Swatimita Ray	India	1404/DEL/2011	05/12/2011	Published on 16-11-2012	Published in J. No. 46/2012	Department of Plant Molecular Biology
41	A Process for Production of Fermentable Sugars from Lignocellulosic Substrate	Ramesh Chander Kuhad; Rishi Gupta	India	1348/DEL/2011	05/09/2011	Published on 27-09-2013	Published in J. No. 39/2013	Department of Microbiology
42	Tissue Specific Promoter and Uses thereof <u>Co-Applicant:</u> Department of Biotechnology, New Delhi	Sanjay Kapoor; Akhilesh Kumar Tyagi; Priyanka Deveshwar	India	1146/DEL/2011	04/19/2011	Published on 02-11-2012	Published in J. No. 44/2012	Department of Plant Molecular Biology
43	Coumarin Compounds for the Treatment of Mycobacterial Infections <u>Co-Applicant:</u> V P Chest Institute,	Virinder Singh Parmar; Ashok Kumar Prasad; Hanumantharao Guru Raj; Mridula Bose; Sunil Kumar Sharma; Rashmi Tandon;	India	983/DEL/2011	04/05/2011	Published on 19-10-2012	Published in J. No. 42/2012	Department of Chemistry

	Delhi	Anil Baghel; AbhaKathuria; Garima Gupta; NehaAggarwal	PCT	PCT/IN2012/0 00242	04/04/20 12	Publishe d on 13- 06-2017	WO2012/13722 4(A1)	
44	Spiro-(Indoline- Isoxazolidines) Compounds Having Inhibitory Effects on Cytokine-Induced Cell Adhesion Molecule Icam-1 Expression onto Human Endothelial Cells. <u>Co-Applicant:</u> Council of Scientific and Industrial Res.	BalaramGhosh; Virinder Singh Parmar; AshokKumar Prasad; Brajendra Kumar Singh; SakshiBalwani; ShashwatMalhotra	India	115/DEL/2011	01/17/20 11	Publishe d on 20- 07-2012	Published in J. No. 29/2012	Department of Chemistry
45	Optimized Process for Production of Alkaline Lipase Enzyme fromPseudomonas Sp. and Its Applications thereof	R.K. Saxena; Gautam Kumar Meghwanshi	India	89/DEL/2011	01/14/20 11	Publishe d on 30- 08-2013	Published in J. No. 35/2013	Department of Microbiology
46	ThionatedCinnamates and Process for Preparation thereof <u>Co-Applicant:</u> Council of Scientific and Industrial Research	BalaramGhosh; Virinder Singh Parmar; Ashok Kumar Prasad; BrajendraKumarsingh; Sarvesh Kumar	India	960/DEL/2010	04/21/20 10	Publishe d on 19-10- 2012	Published in J. No. 42/2012	Department of Chemistry
47	A Pcr- Based Kit for Detecting Chlamydia Trachomatis andNelsseriaGonorrhoeae <u>Co-Applicant:</u> Department of Biotechnology,	Daman Saluja; Uma Chaudhary; Mashook Ali; Poonam; AchchheLal Patel	USA	12/651819	01/04/20 10	Publishe d on 09-12- 2010	Publication No. US2010031104 9A1	Dr. B.R. Ambedkar Center for Biomedical Research (ACBR)
			USA	11/436,063	05/17/20 06	Publishe d on 28- 06-2007	Publication No. US2007/01486 59A1	

	(In)		India	3437/DEL/2005	12/22/2005	Patent Granted on 09-04-2010	Patent No. 239908	Dr. B.R. Ambedkar Center for Biomedical Research (ACBR)
48	A Method of Virus-Induced Gene Silencing in Rice Using a Vector Derived from a DNA Virus <u>Co-Applicant:</u> Department of Biotechnology, New Delhi	ArunimaPurkayastha; IndranilDasgupta	India	2476/DEL/2009	12/01/2009	Patent Granted on 15-12-2016	Patent No. 278167	Department of Plant Molecular Biology
49	Regioselective Acylation of Nucleosides <u>Co-Applicant :</u> Department of Biotechnology, New Delhi	Virinder Singh Parmar; Ashok Kumar Prasad; Rajendra Kumar Saxena; GauravShakya;	India	1855/DEL/2009	9/8/2009	Published on 11-03-2011	Published in J. No. 10/2011	Department of Chemistry
			PCT	PCT/IN2010/000594	09/07/2010	Published on 17-3-2011 Published on 17-11-2011	Publication No. WO2011030353 A3	
50	Polynucleotide Encoding Chloroplastic Small Heat Shock Protein (Shsp26) and Uses thereof	ParamjitKhurana; Harsh Chauhan; Jitendra Paul Khurana	India	1723/DEL/2009	08/20/2009	Published on 14-10-2011	Published in J. No 41/2011	Department of Plant Molecular Biology
51	Wheat Chloroplastic Small Heat Shock Protein (Shsp26) Promoter and Uses thereof	ParamjitKhurana; Harsh Chauhan; Jitendra Paul Khurana	India	1724/DEL/2009	08/20/2009	Published on 14-10-2011	Published in J. No. 41/2011	Department of Plant Molecular Biology
52	Alpha-Crystallin Based Immunization Against	Anil Kumar Tyagi; BappadiyaDey; Ruchi Jain;	India	473/DEL/2009	03/09/2009	Published on	Published in J. No. 38/2010	Department of Biochemistry

	Mycobacterium and Methods thereof. <u>Co-Applicant:</u> Department of Biotechnology, New Delhi	AparnaKhera; VadakkuppattuDevasenapathiRamanathan; UmeshDattaGupta;Vishwa Mohan Katoch				17-09-2010		
53	Recombinant BCG-A G85C Based Immunization Against Tuberculosis <u>Co-Applicant:</u> Department of Biotechnology	A. K. Tyagi; Ruchi Jain; BappadityaDey; NeerajDhar; VivekRao; Ramandeeep Singh; RamanathanVadakkuppattuDevase napati; UmeshDatta Gupta; Vishwa Mohan Katoch	India	2639/DEL/2008	11/21/2008	05/28/2010	Published in J. No. 22/2010	Department of Biochemistry
54	Symmetrically And Asymmetrically Substituted Tetraoxane Compounds, Method of Preparation and Uses thereof	Diwan S. Rawat; Nitin Kumar; Mukul Sharma	India	2103/DEL/2008	09/05/2008	04/23/2010	Published in J. No. 17/2010	Department of Chemistry
55	WithaniaSomenifera Plant Extract and a Method of Preparation thereof <u>Co-Applicant:</u> Indian Institute of Science, Bangalore & National Brain Research Centre, Manesar, Haryana	V. Ravindranath; Alok Gupta; NehaSehgal; S.C. Jain; Suman Thakur; Pankaj Khanna	India	1775/DEL/2008	28-07-2008	Published on 23-4-2010	Published in J.No. 17/2010	Department of Chemistry
			PCT	PCT/IN2009/00430	29-07-2009	Published on 04-02-2010	Publication No. WO2010013254	
			Australia	2009277963	29-07-2009	Published on 04-02-2010	Publication No. AU2009277963 (A1)	
			Canada	20092730709	1/13/2011	Published on 04-02-2010	Publication No. CA2730709A1	
			Europe	09787611	07/28/2009	Published on 11-05-2011	Publication No. EP2318025A2	
			Japan	20110520655	07/29/20	Published	Publication	

					09	d on 7-01- 2013	No. JP2013500236	
			USA	13/003758	06-06- 2011	Patent Granted on 9-07- 2013	Patent No. 8481087	
			China	CN200980123 889	25-05- 2011	Patent Granted on 17- 10-2012	Patent No. CN102076349 B	
56	Coumarin Compounds for the Treatment of Cardiovascular Diseases and Process for Preparing the Same. <u>Co-Applicant:</u> V.P. Chest Institute, Delhi	Virinder Singh Parmar; Hanumanthrao Guru Raj; Ashok Kumar Prasad; Subhash Chand Jain	India	1495/DEL/2008	23-06- 2008	Publishe d 23-04- 2010	Published in J. No. 17/2010	Department of Chemistry
			PCT	PCT/IN2009/0 00359	6/23/200 9	Publishe d on 13-12- 2009	Publication No. WO200915702 0 A1	
			USA	13/001031	11-04- 2011	Publishe d on 21-07- 2011	Publication No. US2011017816 8 A1	
57	Substituted Cyclohexane-1,2-Diamine Derivatives and Related Compounds as Antimicrobial Agents	Nilanjan Roy; Rajesh K Rohilla	India	1462/DEL/2008	06/19/20 08	Publishe d on 14- 09-2012	Published in J. No. 37/2012	Department of Chemistry
58	Dihydropyridimidinone Compounds for the Treatment of Cardiovascular Diseases and Process for Preparing the Same <u>Co-Applicant:</u> V.P. Chest Institute, Delhi	Parmar, Virinder Singh; Raj, HanumanthRao Guru; Prasad, Ashok Kumar	India	1414/DEL/2008	13-6- 2008	Publishe d on 20- 8-2010	Published in J. No. - 34/2010	Department of Chemistry
			PCT	PCT/IN2009/0 00344	15-06- 2009	Publishe d on 17-12- 2009	Publication No. WO200915066 8A1	
			USA	13/057247	05/02/20 11	Publishe d on 18-08-	Publication No. US2011020163 4	

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59	Method of Producing Alkalothermostable Xylanase from Bacillus Pumiius Strain MK001 by Solid State Fermentation <u>Co-Applicant:</u> Department of Biotechnology, New Delhi	Ramesh ChanderKuhad; Mukesh Kapoor	India	984/DEL/2008	04/16/2008	Patent Granted on 11-12-2015	Patent No. 270321	Department of Microbiology
60	Method for Producing and Optimizing the Production of Xylitol <u>Co-Applicant:</u> Tata Chemicals Limited, Andheri (E), Mumbai	R. K. Saxena; Pritesh Gupta; Swati Misra	India	945/MUM/2007	05/18/2007	Published on 13-02-2009	Published in J. No. 07/2009	Department of Microbiology
61	Process for Efficient Production of 1,3-Propanediol <u>Co-Applicant:</u> Tata Chemicals Limited, Andheri (E), Mumbai	R. K. Saxena; PinkiAnand; Jasmine Isar	India	573/MUM/2007	3/28/2007	Published on 28-11-2008	Published in J. No. 48/2008	Department of Microbiology
62	Rice Nucleic Acid Sequences Associated with Panicle Development <u>Co-Applicant :</u> Department of Biotechnology	Sanjay Kapoor; Akhilesh K. Tyagi; Rita Arora	India	157/DEL/2007	01/25/2007	Published on 12-09-2008	Published in J. No. 37/2008	Department of Plant Molecular Biology
63	Nucleic Acid Sequences Involved in Floral Transition in Rice and Uses thereof <u>Co-Applicant :</u> Department of Biotechnology	Paul JitendraKhurana; Akhilesh K. Tyagi; AashimaNijhawan; Pooja Sharma; Mukesh Jain	India	158/DEL/2007	01/25/2007	Published on 12-09-2008	Published in J. No 37/2008	Department of Plant Molecular Biology
64	Abiotic Stress Responsive Nucleic Acids from Rice and Uses thereof <u>Co-Applicant :</u>	Akhilesh K. Tyagi; Sanjay Kapoor; Jitendra Paul Khurana; Swatishmita Ray	India	159/DEL/2007	1/25/2007	Published on 12-09-2008	Published in J. No 37/2008	Department of Plant Molecular Biology

	Department of Biotechnology							
65	Rice Nucleic Acids Involved in Seed Development <u>Co-Applicant:</u> Department of Biotechnology	Akhilesh K. Tyagi; Sanjay Kapoor; Pinky Agarawal	India	160/DEL/2007	01/25/2007	Published on 12-09-2008	Published in J. No 37/2008	Department of Plant Molecular Biology
66	Topoisomerase 6 Genes from Rice for Conferring StreesTolerancein Plants	Mukesh Jain; Jitendra Paul Khurana; Akhilesh Kumar Tyagi	India	1844/DEL/2006	08/17/2006	Published on 04-04-2008	Published in J. No 14/2008	Department of Plant Molecular Biology
67	A Method of Optimization of the Production of Alkaline Protease from Bacillus Licheniformis and its Use in Dehairingof Animal Skins and Hides	R. K. Saxena; Saurabh Saran	India	1477/DEL/2006	6/22/2006	Published on 04-01-2008	Published in J. No. 01/2008	Department of Microbiology
68	A Process for the Preparation of a PH Responsive Polymer for Coating Micro/Macro Capsules	SubhoMozumdar; Dipak K. Majumdar; RichaTyagi; Anjali Yadav; D. HemaMalini; Shreya Chand	India	1372/DEL/2006	08-06-2006	Published on 30-06-2006	Published in J. No. 26/2006	Department of Chemistry
69	A Process for Extraction of Bioactive Psoralen Compound	VeenaAgrawal	India	998/DEL/2006	04/17/2006	Patent Granted on 04-01-2017	Patent No. 278934	Department of Botany
70	A Novel Composition For Dehairing of Hides and the Process for Preparing the Same. <u>Co-Applicant:</u> IIT Delhi & Panacea Ltd	Rani Gupta; PriyaRamnani; Suresh S Kumar; Rajni Singh; VikramSahai; V.S. Bisaria; SitaramPaikray Prasad	India	3294/DEL/2005	12/07/2005	Published on 02-10-2009	Published in J.No. 40/2009	Department of Microbiology
71	Lipase From a Novel LipolyticStarianBurkholderia Multivorans; Process for the Production of the Enzyme and	Rani Gupta; Namita Gupta; VikramSahai; V.S. Bisaria;	India	3251/DEL/2005	12/02/2005	Published on 02-10-2009	Published in J. No. 40/2009	Department of Microbiology

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72	A Process for Producing Organic/Polymeric and Inorganic/Metal Nanoparticles	SubhoMozumdar; AmitSaxena	India	2945/DEL/2005	11/03/2005	Published on 31-07-2009	Published in J. No. 31/2009	Department of Chemistry
73	A Novel Non-Catalytic Peptide Conferring Disulfide Reductase Activity to Proteases for Effective Keratinolysis	Rani Gupta; PriyaRamnani	India	2894/DEL/2005	10/28/2005	Published on 02-10-2009	Published in J. No. 40/2009	Department of Microbiology
74	A Novel Process for Preparation of AsavaandArishta Range of AyurvedicFormulations <u>Co-Applicant:</u> Dabur Research Foundation, Ghaziabad	N.B. Brindavanam; Y. VenkateshwaraRao; D.B.A. Narayanan; T. Satyanarayana; AshimaVohra; Sanjeev Kumar	India	2784/DEL/2005	10/18/2005	Published on 02-10-2009	Published in J. No. 40/2009	Department of Microbiology
75	PCR-Based Detection Method for Chlamydia Trachomatis <u>Co-Applicant:</u> Department of Biotechnology, New Delhi	Daman Saluja; Uma Chaudhury; Mashook Ali	India	1589/DEL/2005	08/17/2005	Published on 31-07-2009	Published in J. No. 31/2009	Dr. B.R. Ambedkar Center for Biomedical Research (ACBR)
			PCT	PCT/IN2006/00282	08/07/2006	Published on 22-02-2007	Publication No. WO2007/020656 A1	
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			USA	12/064143	09/17/2008	Published on 05-02-2009	Publication No. US20090035775A1	

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76	A Process for Producing Modified Reconstituted Sendai Viral Envelope Specific for Drug and OR Gene Delivery to Liver Cells <u>Co-Assignee:</u> National Research Development Corporation, New Delhi, India	Santosh K. Verma; Prashant Mani; Nishi Raj Sharma; Anuja Krishnan; Valluripally Vinod Kumar; Bathula Surendar Reddy; Arabinda Chaudhuri; Rajendra P. Roy; Debi P. Sarkar	India	1003/DEL/2005	21-04-2005	Published on 12-01-2007	Published in J. No. 02/2007	Department of Biochemistry
			PCT	PCT/IN2006/00061	24-02-2006	Published on 26-10-2006	Publication No. WO2006111982	
			USA	11/918841	24-02-2006	Published on 25-02-2010	Publication No. 20100047897	
			Europe	06728396	02/24/2006	Patent Granted on 17-10-2012	Patent No. EP1871889	
77	Improved Process for Expression, Purification and Enhanced Recovery of Mycobacterial Recombinant Proteins	Vijay Kumar Chaudhary; Amita Gupta; Anil Kumar Tyagi; Abhishek Kulshrestha	India	2077/DEL/2004	10/25/2004	Patent Granted on 19-11-2014	Patent No. IN263766	Department of Biochemistry
78	Rtbv Plant Promoter and Process thereof <u>Co-Applicant :</u> Department of Biotechnology, New Delhi	Indranil Dasgupta; Saloni Mathur	India	1422/DEL/2004	30-8-2004	Published on 14-7-2006		Department of Plant Molecular Biology
			PCT	PCT/IN2005/00285	19-8-2005	Published on 25-01-2007	Publication No. WO2007010545	
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			Japan	2007529143	19-08-2005	Patent Granted on 29-10-2010	Patent No. JP4615018 (B2)	
79	A Novel Cytoplasmic Male Sterility System for Brassica Species and its Use for Hybrid Seed Production in Indian Oilseed Mustard Brassica Juncea. <u>Co-Applicant:</u> National Dairy Development Board, Gujarat	Yashpal Singh ; Akshay Kumar Pradhan; Vibha Gupta; Neelakantan Arumugam; Jagdish Kumar Verma; Arundhati Mukhopadhyay; Deepak Pental	India	1610/DEL/2004	26-08-2004	Patent Granted on 01-03-2011	Patent No. IN246501	Department of Genetics
			PCT	PCT/IN2005/00278	22-08-2005	Published on 02-03-2006	Publication No. WO2006/02197 2	
			Canada	2005/25278187	02/26/2007	Patent Granted on 04-08-2015	Patent No. CA2578187	
			USA	US 11/660510	22-08-2005	Patent Granted on 04-10-2011	Patent No. US 8030548 (B2)	
			Australia	2005276075	08/22/2005	Patent Granted on 26-08-2010	Patent No. AU2005276075	
80	An Insulator Construct for	Arun Jagannath;	India	1327/DEL/200	07/19/20	Patent	Patent No.	Department of

	Controlling Leaky Expression of a Lethal Gene <u>Co-Applicant:</u> National Dairy Development Board, Gujarat	PanchaliBandyopadhyay; NeelkantanArumugam; Vibha Gupta; Pradeep Kumar Burma; Deepak Pental		4	04	Granted on 15-11-2010	IN244022	Genetics
81	A Method for the Detection of Chemical Adulterants in Synthetic Milk and Ready to Use Kit for the Detection of Synthetic Milk	Rani Gupta; Rajni Singh	India	711/DEL/2004	04/13/2004	Patent Granted on 29-04-2008	Patent No. IN218177	Department of Microbiology
82	Novel Amylopullulanase Enzyme from Novel Thermophile Bacteria, Geobacillus Thermoleovorans and Process of Preparing the Same	TulasiSatyanarayana; Syed Mohammed Noorwez; MunisamyEzhilvannan	India	566/DEL/2004	3/22/2004	Published on 26-05-2006	Published in J.No. 21/2006	Department of Microbiology
83	Novel Yeast Strains Having Accession Nos. Drf-Uds 004/Wf, Drf-Uds 016/Wf, andDrf-Uds 017/Wfand a Method for Propagation <u>Co-Applicant:</u> Dabur Research Foundation, Ghaziabad	N.B. Brindavanam; Y.VenkateshwaraRao; D.B.A. Narayana; T. Satyanarayan; AshimaVohra; Sanjeev Kumar	India	1609/DEL/2003	12/24/2003	Patent Granted on 18-11-2010	Patent No. IN 244100	Department of Microbiology
84	Mutants of Mycobacteria and Process thereof <u>Co-Applicant:</u> Indian Council Of Medical Research, New Delhi	A. K. Tyagi; Ramandeep Singh; VivekRamanathanRao; VadakkuppattuDevasenapathiRamanathan; ChinnambedyNainarappanParamasivan; Paranjiramaiyenger Narayanan; Yogendra Singh	India	882/DEL/2003	09-07-2003	Patent Granted on 19-3-2014	Patent No. IN259594	Department of Biochemistry
			PCT	PCT/IN2004/00203	09-07-2004	Published on 12-01-2005	Publication No. WO2005005639	
			Brazil	PI0411213	09-07-2004	Published on 18-07-	Publication No. BRPI0411213	

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			Japan	2006518498	09-07-2004	Published on 20-09-2007	Publication No. JP2007526753 (A)	
			USA	10/560605	23-03-2006	Patent Granted on 17-05-2011	Patent No. US7943361 (B2)	
85	A Process for the Isolation and Purification of Sesquiterpene Compounds from a Curcuma Plant	Pratibha Mehta Luthra; Rambir Singh	India	977/DEL/2003	08/07/2003	Patent Granted on 19-11-2008	Patent No. IN 225387	Dr. B.R. Ambedkar Center for Biomedical Research (ACBR)
86	A Method for Obtaining Improved Fertility Restorer Lines for Transgenic Male Sterile Crop Plants and a DNA Construct for Use in Said Method <u>Co-Applicant:</u> National Dairy Development Board, Gujarat	Naveen Chandra Bisht; Arun Jagannath; Vibha Gupta; Pradeep Kumar Burma; Deepak Pental	PCT	PCT/IN2003/00235	07/07/2003	Published on 13-01-2005	Publication No. WO2005/003361	Department of Genetics
			Austria	2003817344	07/07/2003	Patent Granted on 15-9-2009	Patent No. AT442449 (T)	
			Australia	2003247160	01/21/2005	Published on 03-03-2005	Publication No. AU2003247160 (A1)	
			India	121/DELNP/2006	06-01-2006	Patent Granted on 09-03-2010	Patent No. IN238973	
			Europe	03817344	4/12/2006	Patent Granted	Patent No. EP1644506	

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			USA	10/563571	6/8/2006	Patent Granted on 22-06-2010	Patent No. US7741541 (B2)	
87	The Use of Phenolic acetate Drugs to Enhance the Intracellular Nitric oxide Level in Human Platelets	H.G Raj; V.S Parmar; Pulkit Khurana	India	886/DEL/2003	7/11/2003	Patent Granted on 30-03-2009	Patent No. IN230916	Vallabhbai Patel Chest Institute & Chemistry Department, Du
88	A Process for the Preparation of PH Sensitive, Mucoadhesive Hydrogel Nanoparticles for Systemic Delivery of Water Soluble Drugs through Oral Route	Amarnath Maitra; Subho Mozumdar; Susmita Mitra; Drubajyoti Bharali	India	613/DEL/2003	4/16/2003	Patent Granted on 03-04-2008	Patent No. IN217609	Department of Chemistry
89	A Process of Preparing an Extract of Annona squamosa for the Treatment of Diabetes	Vibha Tandon; Geeta Watal; Ramesh Chandra; Rajesh Kumar Gupta; Achyut Narayan Kashari	India	21/DEL/2003	7-1-2003	Patent Granted on 10-04-2008	Patent No. IN 217681	Department of Chemistry
			PCT	PCT/IN2003/00228	20-6-2003	Published on 22-7-2004	Publication No. WO2004060383	
			Europe	03814526	20-6-2003	Published on 2-11-2005	Publication No. EP1589983 (A1)	
			Australia	2003249586	6/20/2003	Published on 29-7-2004	Publication No. AU2003249586 (A1)	

90	Development of Cytoplasmic Male Sterile Brassica Oleracea Plants and the Method of Producing Such Plants <u>Co-Applicant:</u> National Dairy Development Board, Gujarat	Jagdish Kumar Verma; Yashpal Singh Sodhi; Neelkantan Arumugam; Arundhati Mukhopadhyay; Akshay Kumar Pradhan; Vibha Gupta; Deepak Pental; Alka Srivastava	PCT	PCT/IN2003/00176	5-5-2003	Published on 26-11-2004	Publication No. WO2004098271	Department of Genetics
			Australia	2003231927	5/5/2003	Published on 26-11-2004	Publication No. AU2003231927	
91	A Process for the Synthesis of Bisbenzimidazoles and its Derivatives.	Akash Jain; Urmila Tawar; Ramesh Chandra; B. S. Dwarakanath; N. K. Chaudhury; Vibha Tandon	India	32/DEL/2003	9-01-2003	Patent Granted on 17-07-2010	Patent No. IN 241650	Dr. B.R. Ambedkar Center for Biomedical Research (ACBR)
			PCT	PCT/IN2003/00301	9/8/2003	Published on 29-07-2004	Publication No. WO2004063170	
			Australia	2003263586	9/8/2003	Published on 10-8-2004	Publication No. AU2003263586 (A1)	
			Europe	3815133	9/8/2003	Patent Granted on 27-04-2011	Patent No. EP 1590332 B1	
92	Novel Gene Osisap1 of Rice Confers Tolerance to Stresses and a Method thereof <u>Co-Applicant:</u> Department of Biotechnology, New Delhi	Akhilesh Kumar Tyagi; Aramb Mukhopadhyay; Shubha Vij	India	1317/DEL/2002	31-12-2002 (Provisional) 23-10-2003 (Complete)	Published on 9-04-2010	Published in J. No. 15/2010	Department of Plant Molecular Biology
			PCT	PCT/IN2003/0	12/23/20	Published	Publication No.	

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			Australia	2003288710	12/23/20 03	Publishe d on 22-7- 2004	Publication No. AU2003288710 (A1)	
			USA	10/540956	12/23/20 03	Patent Granted on 18-8- 2009	Patent No. US7576263 (B2)	
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			Europe	03780613	12/23/20 03	Patent granted on 10- 12-2008	Patent No. EP 1 578 790 (B1)	
93	Process for the Isolation and Purification of Higher Yield of Protein P17 of HIV-1(Subtype C)(A Non Living Protein	Vijay Kumar Chaudhary; Amita Gupta; KajalArora; Sanjay Gupta	India	808/DEL/2003	6/16/200 3	Patent Granted on 01- 12-2010	Patent No. IN244134	Department of Biochemistry
94	Lambda Phage Display System and the Process	Vijay Kumar Chaudhary; Amita Gupta; SankarAdhya; Ira Pastan	India	566/DEL/2002	20-5- 2002	Patent Granted on 5-3- 2007	Patent No. IN199578	Department of Biochemistry
			PCT	PCT/IN2003/0 0193	20-5- 2003	Publishe d on 27-11- 2003	Publication No. WO200309696 9	
			Australia	2003245036	20-5- 2003	Publishe d on	Publication No. AU2003245036	

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95	A Novel Polymerase Chain Reaction (PCR) Based Method for Rapid Determination of Flanking Sequences That Do Not Involve Initial Manipulation of Genomic DNA <u>Co-Applicant:</u> Department of Biotechnology, &ICGEB, New Delhi	Manu Agarwal; ChandanSahi; Anil Grover; M.K. Reddy; S. K. Sopory	India	39/DEL/2002	1/18/2002	Published on 30-11-2007	Published in J. No. 48/2007	Department of Plant Molecular Biology
96	A Non-Aggregating Derivative of HIV-1 P24 for Haemagglutination based Rapid Detection of Antibodies to HIV in Whole Blood	Vijay Kumar Chaudhary; Amita Gupta; Kajal Arora; Sanjay Gupta	India	1149/DEL/2001	11/13/2001	Published on 27-04-2007	Published in J. No. 17/2007	Department of Biochemistry
97	A Non-Aggregating Derivative Of Hiv-1 P24 for Haemagglutination based Rapid Detection of Antibodies to HIV in Whole Blood <u>Co-Applicant:</u> Department of Biotechnology, New Delhi	Vijay Kumar Chaudhary; Amita Gupta; Kajal Arora; Sanjay Gupta	India	1146/DEL/2001	11/13/2001	Published on 27-7-2007		Department of Biochemistry
98	Process of Entrapping Genetic Materials in Ultra-Low Size Nanoparticles of Inorganic Compounds to form Non-Viral Carriers	Amarnath Maitra; Subho Mozumdar; Susmita Mitra; Indrajit Roy	India	823/DEL/2001	8/1/2001	24-4-2004	Publication No. IN192520	Department of Chemistry
			USA	10/201247	7/24/2002	Patent Granted on 29-4-2003	Patent No. US6555376	

99	Multifunction Interface Device for Use, Inter Alia, in Laboratory Procedures	Pratibha Jolly; R. Vijayaraghavan; PrashantMehendru; MallikaVerma	India	793/DEL/2001	7/24/2001	Published on 27-02-2009	Published in J. No. 09/2009	(Dr. Pratibha Jolly) Physics Department, Miranda House College
			PCT	PCT/IN02/00150	7/15/2002	Published On 06-2-2003	Publication No. WO03010612	
			Australia	2002319900	7/15/2002	Published on 17-2-2003	Publication No. AU2002319900 (A8)	
100	A Process for Preparing a Recombinant Fusion Protein Used for the Detection of HIV Antibodies	Vijay Kumar Chaudhary; Amita Gupta; Sanjay Gupta	India	569/DEL/2001	5/14/2001	Patent Granted on 18-01-2007	Patent No. IN199888	Department of Biochemistry
101	Sustained Release Ophthalmic Formulations Comprising a Micelle Solution of a Random Block Copolymer and a Hydrophobic Drug <u>Co-Applicant:</u> V.P. Chest Institute, Delhi	AmarnathMaitra; Ajay Kumar Gupta; DipakMajumdar; SumitaMitra	India	0845/DEL/2000	18-9-2000	Patent Granted on 21-7-2009	Patent No. IN199515	Department of Chemistry
			Germany	10145910.6	9/18/2001	Published on 20-06-2002	Publication No. DE10145910	
			USA	09/954722 US 20020064513	18-09-2001	Patent Granted on 17-06-2003	Patent No. US6579519	
			Great Britain	0122606.9	09/18/2001	Patent Granted on 27-4-2005	Patent No. GB2369297	
102	Regulation of Lethal Gene Expression in Plants <u>Co-Applicant:</u> National Dairy Development Board,Gujrat,India	Deepak Pental; ArunJagannath; PanchaliBandyopadhyay; NeelakantanArumugam; Vibha Gupta; Pradeep Kumar Burma	PCT	PCT/IN2000/00058	30-05-2000	Published on 12-6-2001	Publication No. WO2001092544	Department of Genetics
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			USA	09/633274	04-08-2000	Patent Granted on 21-12-2004	Patent No. US6833494	
			Australia	6863700	12/11/2001	Published on 28-2-2002	Publication No. AU6863700	
103	Novel 'Oxy' CMS Brassica Napus Plant Corrected for Chlorosis using Hexaploid Bridging Material Generated through Protoplast Fusion and a Method of Producing the Plant <u>Co-Applicant:</u> National Dairy Development Board, Gujarat	Deepak Pental; ArundhatiMukhopadhyay; Vibha Gupta; NeelakantanArumugam; Yashpal Singh Sodhi; Jagdish Kumar Verma; Akshay Kumar Pradhan	PCT	PCT/2000/00006	28-1-2000	Published on 2-08-2001	Publication No. WO0154487	Department of Genetics
			Europe	00911237	28-1-2000	Published on 22-01-2003	Publication No EP1276367	
			Canada	2398273	2/25/2002	Published on 02-08-2001	Publication No. CA2398273	
			USA	10/206642	26-7-2002	Published on 12-06-2003	Publication No. US20030110538	
			Australia	33222/00	27-8-2002	Published on 7-8-2001	Publication No. AU3322200	
104	A Process for Preparing a Novel Anti-Fungal Drug Containing Amphotericin B or other Polyene Antibiotics	AmarnathMaitra; SusmitaMitra; Mona Sahni	India	1000/COL/1999	19-12-1999	Published on 09-08-2003	Publication No. IN190580 (A1)	Department of Chemistry
105	A Process for the Isolation and	Vijay Kumar Chaudhary; Sanjay	India	1478/DEL/199	11/12/19	Published	Publication No.	Department of

	Purification of Protein P17 of HIV-1 Subtype B <u>Co-Applicant:</u> Department of Biotechnology, New Delhi	Gupta; KajalArora; Amita Gupta		9	99	d on 29-11- 2003	IN191365	Biochemistry
106	A Process for the Preparation of Lipase from the Fungus Aspergillus Carneus	Rajendra Kumar Saxena; Rani Gupta; Winlet Sheba Davidson	India	1379/DEL/1999	10/15/1999	Published on 06-03-2004	Publication No. IN192176	Department of Microbiology
107	A Process for the Isolation Of Optically Pure S-Enantiomer of Cyanohydrin of M-Phenoxybenzaldehyde	Rajendra Kumar Saxena; Rani Gupta; Winlet Sheba Davidson	India	1378/DEL/1999	10/15/1999	Published on 06-03-2004	Publication No. IN192175	Department of Microbiology
108	Stable Cytoplasmic Male Sterile Brassica Campestris Plant which Contain "Polima" Cytoplasm and Method for Obtaining such Plants <u>Co-Applicant:</u> National Dairy Development Board, Gujrat, India	Jagdish Kumar Verma; Yashpal Singh Sodhi; Neelkantan Arumugam; Arundhati Mukhopadhyay; Akshay Kumar Pradhan; Vibha Gupta; Deepak Pental	PCT	PCT/IN99/00054	28-9-1999	Published on 04-05-2001	Publication No. WO2001022805	Department of Genetics
			EP	99962500	30-4-2001	Published on 10-07-2002	Publication No. EP1220601 (A1)	
			Canada	2385464	20-3-2002	Published on 05-04-2001	Publication No. CA2385464 (A1)	
			Australia	1889600	1/21/2005	Published on 3-3-2005	Publication No. AU1889600 (A)	
109	A Pharmaceutical Composition Based on Nanoparticles of Polymeric Michelles Containing Paclitaxel <u>Co-Applicant:</u> Dabur Research Foundation, India	Amarnath Maitra; Sanjeeb Kumar Sahoo; Prasanta Kumar Ghosh; Anand C. Burman; Rama Mukherjee; Dhiraj Khattar; Mukesh Kumar; Soumendu Paul	USA	09/401927	23-09-1999	Patent Granted on 27-11-2001	Patent No. US6322817	Department of Chemistry
			India	641/DEL/2000	11-7-2000	Patent Granted	Patent No. IN212068	

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110	Fertility Restorer Gene for "Polima" Cytoplasmic Male Sterility <u>Co-Applicant:</u> National Dairy Development Board, Gujrat, India	Deepak Pental; ArundhatiMukhopadhyay; Vibha Gupta; NeelakantanArumugam; Yashpal Singh Sodhi; Jagdish Kumar Verma; Akshay Kumar Pradhan	India	1230/DEL/1999	15-9-1999	Published on 1-8-2008	Publication J.No. 31/2008	Department of Genetics
			PCT	PCT/IN1999/00051	28-9-1999	Published on 5-4-2001	Publication No. WO2001022804	
			Canada	2385416	5-4-2001	Published on 20-3-2002	Publication No. CA2385416 (A1)	
			Europe	99962497	28-9-1999	Published on 10-07-2002	Publication No. EP1220600 (A1)	
			Australia	18893/00	04/30/2001	Published on 28-06-2001	Publication No. AU1889300	
111	A Process for the Preparation of Water based Stable Micro-Emulsion Formulation ofNeem Oil	AmarnathMaitra; Lalitesh Kumar Thakur; DibyenduSengupta	India	774/DEL/1999	24-05-1999	Published 23-08-2003	Publication No. IN190838 A1	Department of Chemistry
112	Process for the Preparation of Highly Mono-Dispersed Polymeric Hydrophilic Nano-Particles <u>Co-Applicant:</u> Department of Biotechnology, Delhi	AmarnathMaitra; Prashant Kumar Ghosh; Tapas K. De; Sanjeeb Kumar Sahoo	India	263/DEL/1999	17-2-1999	Published on 4-1-2003	Publication No. IN91203	Department of Chemistry
			USA	08/779904	7-1-1997	Patent Granted on 23-2-1999	Patent No. US5874111	
			Europe	97303127	8-5-1997	Patent granted on 12-9-	Patent No. EP0877033	

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			Japan	JPH10330406	12/15/1998	Patent Granted on 01-12-2006	Patent No. JP3887454	
113	An Enzymatic Method for Preparation of Bread	Rani Gupta; Rajendra Kumar Saxena; PareshGigras	India	3430/DEL/1998	11/17/1998	Published on 06-03-2009	Published in J. No. 10/2009	Department of Microbiology
114	Cloning Vectors for Amycolatopsis SP. and a Process for the Preparation thereof <u>Co-Applicant:</u> Department of Biotechnology, New Delhi	Rup Lal	Europe	97303126	08-05-1997	Published on 11-11-1998	Publication No. EP0877087A 1	Department of Zoology
			USA	08/853097	08-05-1997	Patent Granted on 16-11-1999	Patent No. US5985560A	
115	A Process For Preparing Monoclonal Antibodies Against GIIPand VIII Pof Filamentous Phage M13 <u>Co-Applicant:</u> Department of Biotechnology, New Delhi	Vijay Kumar Chaudhary	India	767/DEL/1994	06/17/1994	Patent Granted on 02-10-1999	Patent No. IN183198	Department of Biochemistry