

Granted Patents : - Total Grant Patents- 46(Indian- 33 and Foreign – 13)

S.N.	COUNTRY	PATENT NO.	TITLE	GRANT DATE	FILING DATE	INVENTOR
<u>2023-2024</u>						
1.	US	11820764	Novel compound modulating GSK-3 activity	21/11/2023	01/09/2021	Gupta S, Ahmed I, Nilakhe A and Upadhyay P
<u>2022-2023</u>						
2.	India	420761	A novel typhoid vaccine comprise of conjugate of Vi polysaccharide flagellin	07.02.2023	25/04/2016	Meena J and Panda AK
3.	India	420141	A composite scaffold and method of preparation thereof	01.02.2023	09/10/2019	Singh A, Verma J, Ahuja R, Panda AK
4.	India	413180	Depletion of M. tuberculosis GlmU from Infected Murine Lungs Effects the Clearance of the Pathogen	30.11.2022	01/10/2015	Nandicoori VK, Soni V, Yogeewari P and Sriram D
5.	US	11447534	Peptide complex with immunomodulatory and anti-	20.09.2022	29/10/2020	Vijayan V, Gupta S

			inflammatory function.			
6.	India	401243	Composition useful for the treatment of inflammatory disease or disorders	13/07/2022	19/11/2010	A. Surolia -NII, Pasi Shweta, Gupta Sarika
7.	India	397563	Development of secretory expression based DNA vaccine against ϵ -toxin of <i>Clostridium perfringens</i>	25/05/2022	5/04/2012	Sharma N, Deshmukh SK, Kaushik H, Rupa P, Mathur DD and Garg LC
8.	India	397527	Recombinant zona pellucida (zp) proteins, vaccine compositions and method of producing said vaccines	24/05/2022	25/04/2013	Gupta SK- NII, Gupta N- NII, Chakrabarti K- NII, Prakash K- NII, Wadhwa N- Gupta T
<u>2021-22</u>						
9.	India	393755	Peptide complex with immunomodulatory and anti-inflammatory function	31-03-2022	30/04/2018	Vijayan V and Gupta S
10.	India	366231	“recombinant subunit vaccine against beta toxin of <i>clostridium perfringens</i> ”	06-05-2021	08-01-2014	Garg LC

<u>2020-21</u>						
11.	India	362277	“recq14/recq14 variant - p53 complex for altered mitochondrial function in rothmund-thomson syndrome”	20-03-2021	10/11/2009	Sagar Sengupta
12.	India	358332	“a sortase-click reaction suite for defined protein dendrimer assembly: synthetic example of a multivalent vaccine”	11-02-2021	1-11-2011	R.P. Roy
13.	India	344554	"recovery of bioactive protein from bacterial inclusion bodies using trifluoroethanol as solubilization agent"	20/08/2020	18/12/2014	AK Panda
14.	India	343601	“development of membrane bound expression based dna vaccine against ϵ -toxin of clostridium perfringens”	07-08-2020	11-05-2012	LC Garg
15.	India	341670	development of cytosolic expression based dna vaccine	15/07/2020	11-5-2012	LC Garg

			against e-toxin of clostridium perfringens			
16.	India	341662	development of cytosolic expression based dna vaccine against e-toxin of clostridium perfringens	15/07/2020	11-5-2012	LC Garg
17.	India	339506	“development of membrane bound expression based dna vaccine against e-toxin of clostridium perfringens”	26/06/2020	11-05-2012	. LC Garg
18.	India	339437	"hemoglobin receptor as novel vaccine for leishmaniasis"	25/06/2020	15/05/2013	A Mukhopadhyay
19.	India	337799	“a novel typhoid vaccine eliciting memory antibody response from single dose immunization”	02-06-2020	30/05/2011	AK Panda
20.	India	337612	"a process for production of tag-free recombinant fusion protein encompassing promiscuous t cell epitope of tetanus toxoid and dog zona pellucida	29/05/2020	24/04/2012	SK Gupta

			glycoprotein-3 and its use as contraceptive vaccine"			
<u>2019-2020</u>						
21.	India	333416	"development of vaccine against epsilon toxin of clostridium perfringens using peptides corresponding to immunodominant epitopes of epsilon toxin"	28/02/2020	05-04-2012	L C Garg
22.	India	332055	"design and developments of nanoparticles based carbohydrate vaccines against streptococcus pneumoniae"	14/02/2020	07-09-2012	AK Panda
23.	US	10500283	"vaccine composition capable of inducing memory antibody	10-12-2019	29/5/2012	AK Panda

			response from single point immunization"			
24.	India	328267	"synthetic peptides and random copolymers for the treatment of autoimmune disorders "	27/12/2019	05-05-2011	Sarika Gupta
25.	India	320958	"novel bioconjugates as therapeutic agent and synthesis thereof"	20/09/2019	22/03/2006	R P Roy
26.	India	319556	"recombinant non-toxic protein vaccine against clostridium perfringens infection and epsilon toxin intoxications"	30/08/2019	05-07-2010	L C Garg
27.	India	318710	"monoclonal antibody specific to hemagglutinin form influenza virus h1-subtype and uses thereof"	22/08/2019	23/12/2011	SK Gupta
<u>2018-2019</u>						
28.	India	309378	"heterologous booster based dna vaccine against	18/03/2019	05-04-2012	L C Garg

			epsilontoxin toxin of clostridium perfringens”			
29.	India	295616	"novel cancer associated antibodies and their use in cancer therapy"	09-04-2018	07-10-2004	Anil Suri
<u>2017-2018</u>						
3	India	286707	"immunotherapeutic composition"	28/08/2017	07/02/2007	Anil Suri
31.	India	288726	“spray dried formulation of antigen containing alum or antigen entrapped polymer particles with surface coated of alum”	25/10/2017	21/09/2010	AK Panda
32.	US	9764015	"hemoglobin receptor as novel vaccine for leishmaniasis"	19/09/2017	11-04-2014	A. Mukhopadhyay
33.	India	284087	"novel immunotherapeutic method for treatment of cancer"	08-06-2017	07-02-2007	Anil Suri
34.	Europe	2100970	"ig genes specific oligonucleotides and uses thereof"	13/04/2017	13/03/2009	D. Sehgal

2016-2017

35.	India	280165	" Ig genes specific oligonucleotides and uses thereof "	13/02/2017	13/03/2008	D. Sehgal
36.	India	278769	"a vaccine composition comprising polymeric nanoparticles and microparticles for inducing th1 and th2 response "	30/12/2016	28/03/2007	AK Panda
37.	US	9408900	"recombinant vaccine against clostridium perfringens infection and epsilon toxin intoxication"	09-08-2016	01-07-2011	LC Garg

2013-14

38.	India	257434	"sirna useful in inhibiting cellular growth/proliferation of cancerous tissues"	01-10-2013	02-03-2005	Anil Suri
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2012-2013

39.	Europe	2139513	"polymer particle based vaccine"	29/10/2012	28/03/2008	AK Panda
40.	US	8227591	"novel nucleotide sequences"	24/07/2012	02-03-2006	Anil Suri
41.	Australia	200529099 7	"novel cancer associated antibodies & antigens and their use in cancer diagnosis"	20/12/2012	07-10-2005	Anil Suri
42.	Europe	1796723	"novel cancer associated antibodies & antigens and their use in cancer diagnosis"	12-10-2012	07-10-2005	Anil Suri
43.	US	8268342	"bioderadable polymer scaffold and process for preparation thereof"	18/09/2012	23/10/2008	AK Panda
44.	India	367079	"Development of vaccine against epsilon toxin of clostridium perfringens employing LTB-epsilon toxin epitopesin translational fusion with LTB"	11/05/2012	20/05/2021	LC Garg

2011-2012

45.	US	8143007	" Ig genes specific oligonucleotides and uses thereof "	27/03/2012	13/03/2009	D. Sehgal
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2009-2010

46.	Europe (UK)	1861496	"inhibition of spag9 expression with sirnas"	16/09/2009	02-03-2006	Anil Suri
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