

**Filed Patents – 48 (India = 34 ; Foreign= 14 )**

<b>S. N</b>	<b>Country</b>	<b>Title</b>	<b>Application No.</b>	<b>Filing date</b>	<b>Inventors</b>
<b><u>2024-2025</u></b>					
1.	Indian	Aptamer-based Electrochemical Biosensor	202411082573	29/10/2024	Payal Gulati, Anil Kumar
2.	India	A Robust HUH7.VIL stable cell line over expressing ACE2 and TEMRSS2 and implementations thereof	202411072617	25/09/2024	Nimesh Gupta, Bhushan Nikam
3.	Singapore	Antibacterial Compounds, Method of Production and Use Thereof	10202401792P	19/06/2024	Bichitra Kumar Biswal
4.	US	Antibacterial Compounds, Method of Production and Use Thereof	18/748,576	20/06/2024	Bichitra Kumar Biswal
5.	India	Molecularly imprinted polymer-based electrochemical sensor for quantifying para-cresyl sulfate	202411041037	27/05/2024	Archana, Syed Zimad Husain Hashmi, Partima Solanki and Anil Kumar
	<b><u>2023-2024</u></b>				
6.	US	Methods and compositions for treating colorectal cancer with indoxyl sulphate	18/539,826	14/12/2023	Nishu Dalal and Anil Kumar

7.	US	Hexosamine compounds and methods thereof	18/248,503	10.04.2023	SampathkumarSG., Parashar S, Tasneem, A and Rautela J
<b><u>2022-2023</u></b>					
8.	India	Electrochemical sensor for quantifying trimethylamine(TMA)	202311001213	05/01/2023	Rekha Jalandra,GBVS Lakshmi,Pratima R Solanki and Anil Kumar
9.	US	Methods for decreasing resistance to chemotherapy	63/426,360	17/11/2022	S. Sengupta
10.	US	DNA damage dependent microrna signature for cancers, methods and uses related thereto	17/998,888	15/11/2022	S. Sengupta
11.	India	A method for engineering type I Polyketide synthase(PKS) for the bio-production of 8-acyl lactones	202211061834	31/10/2022	Rajesh S Gokhale, Vinay Nandicoori and Sonali Srivastava
12.	India	Itch mutants for the treatment of memory and learning defects	202211052973	16/09/2022	Sharma Pushkar and Chauhan Monika
13.	India	MiR449a as a therapeutic for neurodegenerative Disorders	202211052962	16/09/2022	Sharma Pushkar and Chauhan Monika
14.	India	A dengue virus follicular T helper cell specific peptide megapool and its thereof	202211046391	16.08.2022	Nimesh Gupta, Shilpa Sachan
<b><u>2021-2022</u></b>					

15.	US	Novel compound modulating GSK-3 activity	17/463,717	01/09/2021	Gupta S, Ahmed I, Nilakhe A and Upadhyay P
16.	US	Hydroxyethylamine-based piperazine compounds, and methods of producing and using the same for treating disease	17/347,720	15/06/2021	Rathi B, Kempaiah P, Singh AP, Singh S, Gupta Y, Sharma N, Poonam, Durvsula R
17.	US	A method of mimicking benefits of dietary restriction by transiently upregulating ER stress response	17/294,082	14/05/2021	Mukhopadhyay A, Chakraborty K and Matai L
18.	India	Formulation for modulating pain and inflammation and methods thereof	202111021028	10/05/2021	Gupta S and Upadhyay P
19.	US	Methods and compositions For Treating Viral Diseases Using Combination Of Drugs	17/241,130	27/04/2021	Majumdar T, Biswal BK, Tailor P
<b><u>2020-2021</u></b>					
20.	India	Gut microbiota derived Indoxyl Sulphate (IS) detection through molecularly imprinted polymer based sensor	202111006093	12.02.2021	Dalal N, Dhiman T, Lakshmi GBVS, Gupta S, Singh R, Solanki PS and Kumar A (2021)
21.	India	A novel method to evaluate the quality of antigen-specific t cells in infection and vaccination	202111003148	21/01/2021	Gupta N and Ansari A
22.	India	Expression and purification of RBD (Receptor Binding Domain) of Corona Virus.	202011056344	28.12.2020	Singhvi P, Srichandan S, Meena J, Verma J, Ahuja R, Panda AK

23.	India	Novel compound modulating GSK-3 activity	202011054435	15/12/2020	Gupta S, Ahmed I, Nilakhe A and Upadhyay P
24.	India	Method for purification of recombinant human sperm associated antigen 9	202011024536	11/12/2020	Suri AK
25.	US	Carboxylated osteocalcin for treatment of amyloidosis or diseases associated with abnormal protein folding.	17/051,272	29/10/2020	Vijayan V, Siddique IA, Gupta S
26.	India	Compositions having application against hyper-pigmentation	202011047316	29/10/2020	Sultan F, Kochar M, Bhosale RS, Natarajan VT and Gokhale RS
27.	India	Novel antiparasitic agents based on piperazine and uses thereof	202011043767	08/10/2020	Agam Singh
28.	India	A recombinant peptide or peptide conjugate of Clostridium perfringens	202011039302	11/09/2020	Amit Kumar Solanki, Sachin Kumar Deshmukh, Himani Kaushik, Bharti Bhatia, Lalit Garg
29.	India	Improved immunogenicity of recombinant protein based SARS COV-2 candidate vaccine using PLA nanoparticles	202011035557 filed on	18/08/2020	Jairam Meena, Mamta Singh, Sudeepa Srichandan, Priyank Singhvi, Amulya K. Panda
30.	India	Novel optical sensor for Antibiotic detection	202011030135	15/07/2020	Pratima Solanki, Reena Sajwan and Anil Kumar
31.	India	A novel SARS COV-2 conjugate vaccine comprising of RBD and non human like epitopes. filed on	202011029228	09/07/2020	Meena J, Srichandan S, Singhvi P, Verma J and Panda AK

32.	India	A novel glycoconjugate vaccine against streptococcus pneumoniae	202011028203	02/07/2020	Singh M, Meena J, Sori H,Ahuja R, Saxena S, Sehgal D and Panda AK
33.	India	A Process for promoting germinal centres using polymeric particle based immunization	202011026508	23/06/2020	Mamta Singh, Jairam Meena and Amulya Kumar Panda
34.	India	DNA damage dependent microrna signature for cancers, methods and uses related thereto	202011022661	29/05/2020	Sengupta S
<b><u>2019-2020</u></b>					
35.	India	A Novel Detection Method for Trimethyl N- Oxide.	201911044566	04/11/2019	Solanki P, Lakshmi GBVS and Kumar A
36.	India	Novel fluorescence-based toggle sensor for detection of antibiotics.	201911042412	18/10/ 2019	Solanki P, Sri S, Lakshmi GBVS and Kumar A
37.	India	A process for fabrication of transparent polymeric scaffold for tissue engineering applications	201911036223	09/09/2019	Singh A and Panda AK
<b><u>2018-2019</u></b>					
38.	India	A method for augmenting bacteria	201911010966	20/03/2019	Dalal N, Sharma GP, JalandraR, Sharma M, Solanki P, Makharia GK, Kumar A

39.	India	A method of mimicking benefits of dietary restriction by transiently upregulating ER stress response	201811047507	14/12/2018	Mukhopadhyay A, Chakraborty K and Matai L
40.	India	A Formulation for modulating immune response	201811036025	25/09/2018	Jha D, Kumar R, Panda AK
41.	India	BLM Mediated Reactivation of Fbw7 $\alpha$ Mutant in Cancer	201811022241	14/06/ 2018	Sengupta S
42.	India	Carboxylated osteocalcin for treatment of amyloidosis or diseases associated with abnormal protein folding	201811016306	30/04/2018	Vijayan V, Siddique IA and Gupta S
<b><u>2017-2018</u></b>					
43.	India	A chaperone family protein based malaria vaccine.	201811008326	07/03/ 2018	Singh AP, Singh H and Kumar JD
44.	SA	Herbal microbicide formulation for preventing HIV	PCT/IN2018/05 0056	03/02/2018	Polachira SK, Nair R, Jayalekha R, Gupta SK, Mishra NN and Agarwal A
45.	ARI PO	Herbal microbicide formulation for preventing HIV	PCT/IN2018/05 0056	03/02/2018	Polachira SK, Nair R, Jayalekha R, Gupta SK, Mishra NN and Agarwal A
46.	Indonesia	Herbal microbicide formulation for preventing HIV	PCT/IN2018/05 0056	03/02/2018	Polachira SK, Nair R, Jayalekha R, Gupta SK, Mishra NN and Agarwal A
<b><u>2016-2017</u></b>					

47.	India	Herbal microbicide formulation for preventing HIV	201741004017	3/02/2017	Polachira SK, Nair R, Jayalekha R, Gupta SK, Mishra NN and Agarwal A
<b><u>2014-2015</u></b>					
48.	● India	A method for efficient entrapment of water soluble antibiotics in polymer scaffold to be used for wound dressing	144/DEL/2015	16/01/2015	Panda AK and Prasad A