| S.N. | Country | Patent No. | Title | Grant Date | Filing Date | Inventor |
|------|----------------|---------------|---|---------------|----------------|---------------------------|
| 1 | India | 366231 | Recombinant subunit vaccine against beta toxin of Clostridium perfringens | 06/05/2021 | 08/01/2014 | Dr. LC Garg |
| 2 | US | 8227591 | Novel nucleotide sequences | 24/07/2012 | 02/03/2006 | Dr. Anil K Suri |
| 3 | India | 284087 | Novel immunotherapeutic method for treatment of cancer | 08/06/2017 | 07/02/2007 | Dr. Anil K Suri |
| 4 | US | 8143007 | Nested primer sets for amplifying mouse immunoglobulin variable gene segments | 27/03/2012 | 13/03/2009 | Dr. Devinder Sehgal |
| 5 | US | 8148321 | Bioconjugates as therapeutic agents and synthesis thereoff | 03/04/2012 | 19/09/2008 | Dr. RP Roy |
| 6 | Singapor e | 135339 | Inhibition of SPAG9 expression with siRNA | 15/06/2010 | 02/03/2006 | Dr. Anil K Suri |
| 7 | India | 257434 | siRNA useful in inhibiting cellular growth/proliferation of cancerous tissues | 01/10/2013 | 02/03/2005 | Dr. Anil Suri |
| 8 | India | 280165 | Ig genes specific oligonucleotides and uses thereof | 13/02/2017 | 13/03/2008 | Dr. Devinder Sehgal |
| 9 | India | 320958 | Novel bioconjugates as therapeutic agent and synthesis thereof | 20/09/2019 | 22/03/2006 | Dr. RP Roy |
| 10 | India | 278769 | A vaccine composition comprising polymeric nanoparticles and microparticles for inducing Th1 and Th2 response | 30/12/2016 | 28/03/2007 | Dr. AK Panda |
| 11 | Europe (UK) | 1861496 | Inhibition of SPAG9 expression with siRNA | 16/09/2009 | 02/03/2006 | Dr. Anil K Suri |
| 12 | Europe | 2139513 | Polymer particle based vaccine | 29/10/2012 | 28/03/2008 | Dr. AK Panda |
| 13 | Europe | 2100970 | Ig genes specific oligonucleotides and uses thereof | 13/04/2017 | 13/03/2009 | Dr. Devinder Sehgal |
| 14 | India | 309378 | Heterologous booster based dna vaccine against epsilontoxin toxin of Clostridium perfringens | 18/03/2019 | 05/04/2012 | Dr. LC Garg |
| 15 | India | 333416 | Development of vaccine against epsilon toxin of Clostridium perfringens | 28/02/2020 | 05/04/2012 | Dr. LC Garg |

| | | | using peptides corresponding to immunodominant epitopes of epsilon toxin" | | | |
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| 16 | India | 337612 | A process for production of tag-free recombinant fusion protein encompassing promiscuous t cell epitope of tetanus toxoid and dog zona pellucida glycoprotein-3 and its use as contraceptive vaccine | 29/05/2020 | 24/04/2012 | Dr. SK Gupta |
| 17 | India | 341662 | Development of cytosolic expression based DNA vaccine against e-toxin of Clostridium perfringens | 15/07/2020 | 11/5/2012 | Dr. LC Garg |
| 18 | India | 343601 | Development of membrane bound expression based DNA vaccine against ε-toxin of <i>Clostridium</i> perfringens | 07/08/2020 | 11/05/2012 | Dr. LC Garg |
| 19 | India | 341670 | Development of cytosolic expression based DNA vaccine against e-toxin of Clostridium perfringens | 15/07/2020 | 11/5/2012 | Dr. LC Garg |
| 20 | India | 339506 | Development of membrane bound expression based DNA vaccine against etoxin of <i>Clostridium</i> perfringens | 26/06/2020 | 11/05/2012 | Dr. LC Garg |
| 21 | India | 328267 | Synthetic peptides and random copolymers for the treatment of autoimmune disorders | 27/12/2019 | 05/05/2011 | Dr. Sarika Gupta |
| 22 | India | 337799 | A novel typhoid vaccine eliciting memory antibody response from single dose immunization | 02/06/2020 | 30/05/2011 | Dr. AK Panda |
| 23 | India | 339437 | Hemoglobin receptor as novel vaccine for leishmaniasis | 25/06/2020 | 15/05/2013 | Dr. A Mukhopadh yay |
| 24 | Australia | 2011275 507 | Recombinant nontoxic protein vaccine against Clostridium perfringens infection and epsilon toxin intoxications | 14/07/2016 | 01/07/2011 | Dr. LC Garg |

| 25 | India | 319556 | Recombinant non-toxic protein vaccine against <i>Clostridium perfringens</i> infection and epsilon toxin intoxications | 30/08/2019 | 05/07/2010 | Dr. LC Garg |
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| 26 | Europe | 2591108 | Recombinant nontoxic protein vaccine against Clostridium perfringens infection and epsilon toxin intoxications | 11/03/2015 | 05/07/2010 | Dr. LC Garg |
| 27 | US | 9408900 | Recombinant vaccine against <i>Clostridium</i> perfringens infection and epsilon toxin intoxication | 09/08/2016 | 01/07/2011 | Dr. LC Garg |
| 28 | India | 367079 | Development of cytosolic expression and heterologous booster based dna vaccine against ε -toxin of Clostridium perfringens | 20/05/202 | 11/05/201 | Dr. LC Garg |
| 29 | US | 9764015 | Hemoglobin receptor as novel vaccine for leishmaniasis | 19/09/2017 | 11/04/2014 | Dr. A Mukhopadh yay |
| 30 | India | 332055 | Design and developments of nanoparticles based carbohydrate vaccines against <i>Streptococcus pneumoniae</i> | 14/02/2020 | 07/09/2012 | Dr. AK Panda |
| 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 | Dr. AK Panda |
| 32 | US | 8268342 | Bioderadable polymer scaffold and process for preperation thereof | 18/09/2012 | 23/10/2008 | Dr. AK Panda |
| 33 | Europe | 1796723 | Novel cancer associated antibodies & antigens and their use in cancer diagnosis | 12/10/2012 | 07/10/2005 | Dr. Anil KSuri |
| 34 | Singapor e | 156619 | Novel cancer associated antibodies & antigens and their use in cancer diagnosis | 13/07/2012 | 07/10/2005 | Dr. Anil K Suri |
| 35 | Australia | 2005290 997 | Novel cancer associated antibodies & antigens and their use in cancer diagnosis | 20/12/2012 | 07/10/2005 | Dr. Anil K Suri |

| 36 | India | 295616 | Novel cancer associated antibodies and their use in cancer therapy | 09/04/2018 | 07/10/2004 | Dr. Anil K Suri |
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| 37 | South Africa | 2010/036 91 | Biodegradable polymer scaffold and process for preparation thereof | 03/04/2012 | 24/05/2010 | Dr. AK Panda |
| 38 | Europe | 2207577 | Biodegradable polymer scaffold and process for preparation thereof | 19/12/2014 | 23/10/2008 | Dr. AK Panda |
| 39 | Australia | 2.01E+09 | Biodegradable polymer scaffold and process for preparation thereof | 25/05/2014 | 23/10/2008 | Dr. AK Panda |
| 40 | Europe | 2398922 | RECQL4, the DNA helicase mutated in rothmubd- thomson syndrome, regulated mitochondrial function | 29/04/2015 | 08/11/2010 | Dr. Sagar Sengupta |
| 41 | US | 1050028 | Vaccine composition capable of inducing memory antibody response from single point immunization | 10/12/2019 | 29/5/2012 | Dr. AK Panda |
| 42 | India | 358332 | A sortase-click reaction suite for defined protein dendrimer assembly: synthetic example of a multivalent vaccine | 11/02/2021 | 01/11/2011 | Dr. RP Roy |
| 43 | India | 362277 | RECQL4, the DNA helicase mutated in rothmubd- thomson syndrome, regulated mitochondrial function | 20/03/2021 | 10/11/200 9 | Dr. Sagar Sengupta |
| 44 | India | 344554 | Recovery of bioactive protein from bacterial inclusion bodies using trifluoroethanol as solubilization agent | 20/08/2020 | 18/12/2014 | Dr. AK Panda |
| 45 | India | 318710 | Monoclonal antibody specific to hemagglutinin form influenza virus H1- subtype and uses thereof | 22/08/2019 | 23/12/2011 | Dr. SK Gupta |