

University of Hyderabad – List of Filed Patents (2019-2023)

S. No.	Application No. /Grant No.	Title	Year	Inventor	School
1.	202341031596	Variants of hydroxynitrile lyase and their use in diastereoselective synthesis of β -nitroalcohols	2023	Santosh Kumar Padhi, Ayon Chatterjee & Badipatla Vishnu priya	Department of Biochemistry, University of Hyderabad
2.	202341031597	(R) - Hydroxynitrile lyase variants and their application in enantioselective synthesis of optically active β - nitroalcohols	2023	Santosh Kumar Padhi & Badipatla Vishnu Priya	Department of Biochemistry, University of Hyderabad
3	202341005688	A recombinant hiv-1 associated topoisomerase ii ? Eta kinase and derived peptides as hiv vaccine candidate	2023	Prof. Anand K Kondapi	Department of Biotechnology & Bioinformatics, School of Life Sciences, University of Hyderabad
4	202341047813	Baliospermum montanum hydroxynitrile lyase in the 5- stereo selective synthesis of optically active β -nitroalcohols of one or more chiral centers	2023	Santosh Kumar Padhi	Department of Biochemistry, University of Hyderabad
6	202311039395	A method for tailoring of ultrashort infrared laser pulses for precise generation and control of an ultraviolet source for spectroscopic sensing	2023	Samuel Anurag N, Sree Harsha S and Prem Kiran P	Chairman DRDO & ACRHEM, University of Hyderabad

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1.	202241032453	Fabrication of microwave varactors on polymer substrates using low-temperature crystallized ferroelectric thin films	2022	Akhil Raman T S, Chedurupalli Shivakumar, K. C. James Raju	School of Physics, University of Hyderabad

2.	202141011672	NS2BNS3PRO antigen for diagnosis of Dengue virus infections	2022	Masturi Venkataramana, Chaitanya G, Lekha Gandhi & Deepti Maisnam	Department of Biotechnology & Bioinformatics, School of Life Sciences, University of Hyderabad
3.	202241020079	Environmentally benign glucose based Biscarbonate monomers synthetic process thereof	2022	Mithun Chakraborty & Tushar Jana	School of Chemistry, University of Hyderabad
4.	202241002216	Process for the synthesis of environmentally benign Diamines and Diisocyanates monomers	2022	Moumita Dhara, Prasannatha Banumelli, Billa Narasima Rao & Tushar Jana	School of Chemistry, University of Hyderabad
5.	202041030440	Method of pooling multiple reverse indexed DNA/RNA samples and adding single indexed forward primer and application thereof	2022	Sreenivasulu Kurukuti & Gautam Das	Department of Animal Sciences, School of Life Sciences, University of Hyderabad
6	202241016172	Molecular single-crystal photonic micro-resonators and method of fabricating thereof	2022	Vuppu Vinay Pradeep & Rajadurai Chandrasekar	School of Chemistry, University of Hyderabad

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1.	202141037103	Culture medium and methods for production of secondary metabolites by a probiotic bacterium Zooshikella Marina JC333T	2021	Eedara Veera Venkata Ramaprasad, Chintalapati Sasikala & Chintalapati Venkata Ramana	Department of Plant Sciences, University of Hyderabad & Centre for Environment, J.N. T. University

2.	AU2021106627A4	A Block-Chain Enabled Reference Architecture System for a Smart Learning Technology	2021	Anil GR & Salman Abdul Moiz	School of Computer & Information Sciences, University of Hyderabad
3.	202041020018	Thiazolyl-indole derivatives as fluorescence probes	2021	Rajagopal Nagarajan, Phanithi Prakash Babu, Ponnusamy Pon Sathieshkumar, Rahul Shankar Rao Rayilla & Anwita Mudiraj	Department of Biotechnology & Bioinformatics and School of Chemistry, University of Hyderabad,
4.	202041000153	Process for difference-based data aggregation and recovery	2021	Arun Avinash Chauhan & Dr. Siba Kumar Udgata	AI Lab, School of Computer & Information Sciences, University of Hyderabad
5.	202041000051	3D-printed droplet-based microreactor for synthesis of magnetic and metallic nanoparticles	2021	Vini Singh & Rajender Singh	School of Engineering Science & Technology & School of Physics, University of Hyderabad
6.	201941052617	SPOROTAN: A spore selective fluorescent dye for identification of cryptic bacterial spores	2021	N. Senthilnathan, Kumar Gaurav, Prof. Ch. Venkata Ramana & Prof. TP. Radhakrishnan	School of Chemistry & Department of Plant Sciences, University of Hyderabad
7.	202141012687	Non-invasive glucose level monitoring device using absorption spectroscopy with affordability	2021	Duvvuru Varshitha & Vimal Kumar RN	TIDE, UoH Science Complex, University of Hyderabad
8.	202141023786	A novel system based on random sample consensus (ransac) for iris recognition in non-ideal imaging conditions	2021	G R Anil and Dr. Dumala Anveshini et al.,	School of Computer and information Sciences, University of Hyderabad

9.	202141052653	Additive assisted perovskite single crystal growth method for optoelectronic applications.	2021	Murali Banavoth & Sarvani Jowhar Khanam	School of Chemistry, University of Hyderabad
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1.	201911022529	Process for preparation of multi-layer Graphene and nanocomposites thereof	2020	Swati Ghosh Acharyya, Gadde Ravi Kiran, Byram Chandu, Soma Venugopal, Tarak Nath De & Badiganti Veera Sekhar	University of Hyderabad & Advanced System Laboratory, Hyderabad
2.	201941012554	System and method for Binocular vision testing using a Virtual Reality Display	2020	Kavita Vemaury, Sai Srinivas Vuddagiri & Rishi Bhardwaj	IIT Hyderabad & University of Hyderabad
3.	201911012434	Indole-ynone mediated Benzoannulation process for the preparation of Carbazoles- Carbazomycin a, Calothrixin B and Staruosporinone	2020	Srihari Pabbaraja, Goverdhan Mehta, Ramesh Samineni & Shwetha Singh	IICT, Hyderabad & School of Chemistry, University of Hyderabad
4.	201941011582	Novel therapeutic uses of KISSPEPTINS in reversing aging-related neurodegenerative disorders	2020	Ushodaya Mattam & Naresh Babu V Sepuri	School of Life Sciences, University of Hyderabad
5.	16/051,409 & US10633412-B2	Preparation of Bile acids and intermediates thereof	2020	Achampeta Rathan Prasad, Roy A Swaringen Jr, John Gregory Reid, Robert M Moriarty & Akhila Kumar Sahoo	University of Hyderabad
6.	201841031942 & WO/2020/044213A1	Diphenylamino-Methylene Malononitrile based compounds as fluorescence probes	2020	Balamurugan R, Tamilarasan D, Bramanandam M & Lokesh Reddy	School of Chemistry & School of Life Sciences, University of Hyderabad

7.	202041021983	An Intelligent Device for Fever and Mental State Detection of Human-beings Under Medication Using Thermal Imaging Platform	2020	Siba K Udgata & Samrat L Sabat	School of Computer and Information Sciences & CASEST, University of Hyderabad
8.	202041019994	No-GPS and No-Internet Model for Selective and Restrictive Location Correspondence in Deterministic Environments	2020	Siba K Udgata, Mrutyunjay Anuroop & Pragyan Kodakunta	School of Computer and Information Sciences, University of Hyderabad

S. No.	Application No. /Grant No.	Title	Year	Inventor	School
1.	201941007633	Laser based method to crystallize ferroelectric thin film at sub 300 c temperatures for tunable microwave devices	2019	J. Pundareekam Goud,S. Ramakanth, K.Sandeep Sharma,Ajeet Kumar,K. C. James Raju	School of Physics, University of Hyderabad
2.	201941000211	Method for Difference Based Data Aggregation and Recovery	2019	Arun Avinash Chauhan and Siba K Udgata	School of Computer and Information Sciences, University of Hyderabad

University of Hyderabad – List of Granted Patents (2019-2023)

S. No.	Application No. /Grant No.	Title	Year	Inventor	School
1.	3973/CHE/2015 & 432327	A novel biomarker for detection of pulmonary and extra-pulmonary tuberculosis	2023	Sharmistha Banerjee, Mani Harika Vemula, Sumanlatha Gaddam, Ramya Sivangala	Department of Biotechnology & Bioinformatics, School of Life Sciences, University of Hyderabad
2	201941014858 & 433631	Design, synthesis and evaluation of B4N (DUHSLBTMV16072018-1) and T4N (DUHSLBTMV16072018-2), the derivatives of Nordihydro Guaietic Acid (NDGA) as potential inhibitors of Dengue virus protease	2023	Musturi Venkataramana, Chaitanya G, Lekha Gandhi, RaviKumar YS & Naresh Babu Sepuri	Department of Biotechnology & Bioinformatics, School of Life Sciences, University of Hyderabad
3	201741017576 & 439803	"Novel formulation containing native Or recombinant apotranferrin or lactoferrin nanoparticle loaded with biological alone or in combination with chemotherapeutic agent for targeted delivery"	2023	Anand Kondepi	Department of Biotechnology & Bioinformatics, School of Life Sciences, University of Hyderabad

S. No.	Application No. /Grant No.	Title	Year	Inventor	School
1.	202041016938 & 408304	Chitosan-based multifunctional liquid bio-fertilizers and methods of preparation thereof	2022	Apparao Podile, Sravani Ankati & Eedara Veera Venkata Ramaprasad	School of Life Sciences, University of Hyderabad
2.	202241022258 & 412755	Process for the synthesis of Butacene with the control over iron content	2022	Mutyalanaidu Ganivada, Sourav Jana & Tushar Jana	Advanced Centre of Research in High energy Materials (ACHREM), University of Hyderabad

3.	3471/CHE/2013 & 396483	A novel abrasive free chemical mechanical planarization (AFCMP) of non-polar and semi polar III-V Nitride surfaces	2022	Dibakar Das, S Vijayalakshmi, Arnab Bhattacharya, A Azizur Rahman & Nirupam Hatui	School of Engineering Sciences and Technology, University of Hyderabad
4.	202141017396	Method for separation and purification of multifunctional proteins Bowman-Birk and Kunitz inhibitors	2022	Mariyamma Gujjarlapudi, Bharti Kotarya, MK Arunasree & Kollipara Padmasree	Department of Biotechnology & Bioinformatics, School of Life Sciences, University of Hyderabad
5.	4657/CHE/2011 & 387706	Nanoparticles of Lactoferrin and a method of preparing nanoparticles of Lactoferrin	2022	Anand Kondepi	Department of Biotechnology & Bioinformatics, School of Life Sciences, University of Hyderabad
6.	201911046786 & 405780	Scalable and cost-effective process for the synthesis of 4,10-Dinitro-2,6,8,12-Tetraoxa-4,10-Diazatetracyclo [5.5.0.05,903,11] Dodecane (TEX)	2022	Koorella Rajasekhar, Ramkoti Gugulothu & Raatalu Nayudu	Chairman, DRDO & ARCHEM, University of Hyderabad
7.	201911050240 & 389248	Novel compound 1,2,4,4-Tetranitropyrazolidine-3,5-Dione (ACRAJONE) and process for its synthesis	2022	Koorella Rajasekhar, Raatalu Nayudu & Ramkoti Gugulothu	Chairman, DRDO & ARCHEM, University of Hyderabad
8.	201911050232 & 389240	Process for preparing energetic salts of Nitro and/or Nitramino derivatives of Pyrrole	2022	Vikranth Thaltiri, Kurumurthy Chavva & Pradeepta Kumar Panda	Chairman DRDO & ACRHEM, University of Hyderabad
9.	201911034180 & 398686	A facile high-yield synthesis of N-Methyltetranitropyrrrole (NMTNP)	2022	Vikranth Thaltiri, VShanmugapriya & Pradeepta Kumar Panda	Chairman DRDO & ACRHEM, University of Hyderabad
10.	2506/CHE/2014 & 390972	Sintered in-situ titanium carbide based boronized ceramic cutting tool and method of making the same	2022	Prof.K Anantha Padmanabhan, Dr.S.Balasivanandha Prabu & Soundararajan Madhavan	School of engineering, sciences and technology (SEST), University of Hyderabad and Department of Mechanical Engineering, Anna University
11.	201811038261	Process for the synthesis of Ferrocenyl-Alkyl-Thiol and its grafting with Hydroxy	2022	Bikash Kumar Sikder & Tushar Jana	DRDO, ACRHEM, University of Hyderabad

		Terminated Polybutadiene (HTPB)			
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1.	201741017390& 385140	Novel anti-HIV-1 heteroaromatic compounds targeted to HIV-1 associated Topoisomerase II Beta Kinase	2021	Anand Kumar Kondapi & Kammari Kurumurthy	School of Life Sciences, University of Hyderabad
2.	202011023126	Novel Fluoro-nitrato energetic plasticizer compound for high energy applications and a process of preparation thereof	2021	Balaka Barkakaty, Kumar Harish Keerthi & Saheli Dey	DRDO & ACRHEM, University of Hyderabad
3.	201641015363 & 383457	High active Antiretroviral combination drugs loaded Lactoferrin nanoparticles for first-line and second-line therapy	2021	Anand Kumar Kondapi	School of Life Sciences, University of Hyderabad
4.	201811047535& 380856	Process for the synthesis of 4-(Dimethylsilane)-Alkylferrocene	2021	Bikash Kumar Sikder & Tushar Jana	DRDO & ACRHEM, University of Hyderabad
5.	201811035164& 380348	A process for the manufacture of high purity Ammonium Dinitramide (ADN)	2021	Rajanna Gugulothu & Anuj A Vargeese	DRDO & ACRHEM, University of Hyderabad
6.	201911023066& 378225	An efficient process for the synthesis of N-substituted Tetranitropyrrole	2021	Vikranth Thaltiri, V Shanmugapriya & Pradepta Kumar Panda	DRDO & ACRHEM, University of Hyderabad
7.	201941024295& 377565	Heterocyclic compounds as Lipoxygenase inhibitors	2021	Pallu Reddanna, Kakularam Kumar Reddy, Nooruddin Khan, Harshavardhan Dattarao Bhuktar & Manojit Pal	DRILS, Hyderabad & School of Life Sciences, University of Hyderabad
8.	201811049604& 371289	Green synthetic method for the synthesis of Bis(Fluoroalkyl) Carbonate	2021	Blaka Barakakaty, Saheli Dey & Nitesh Singh	DRDO & ACRHEM, University of Hyderabad
9.	201941010293 & 420353	Method for controlling transport and for measuring electric dipole moment of metallo-dielectric particles in liquid crystals	2021	Surajit Dhara & Dinesh Kumar Sahu	School of Physics, University of Hyderabad
10.	201941033594 & 419393	Methods and compositions for increasing antibiotic uptake in pathogenic bacteria by	2021	Arunasree MK, YN Gajapati Varma & G	Department of Animal Biology, School of Life

		using NSAID co-crystals		Srinivasa Rao	Sciences, University of Hyderabad
11.	4879/CHE/2015/ & 382531	Histone deacetylase inhibitory oxadiazoles linked with Glycine/Alanine	2021	Pidugu Vijaya Rao, Nagendra Sastry Yarla, Srinivasa Rao Pedada & Kalle M Aruna Sree	Department of Animal Biology, School of Life Sciences, University of Hyderabad

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1.	201741001472& 346112	Solution grown organic single crystal N-Benzyl-2-Methyl-4-Nitroaniline and a method of growing thereof for TERAHERTZ applications	2020	Dr. S. Brahadeeswaran, K. Thirupugalmani, M Venkatesh & Dr. A.K. Chaudhary	University College of Engineering, Anna University & ACRHEM, University of Hyderabad
2.	201711019900& 333215	Hydroxy Terminated Polybutadiene (HTPB) Based Polyurethanes	2020	Bikash Kumar Sikder, Moumita Dhara & Tushar Jana	Advanced Centre of Research in High Energy Materials (ACRHEM), DRDO Centre of Excellence, University of Hyderabad
3.	201741034005 & 416277	Biopesticide compositions comprising stable harpin _{pss} -loaded chitosan nanoparticles and methods thereof	2020	Apparao Podile & N. Sravana Sandhya Rani	Department of Plant Sciences, School of Life Sciences, University of Hyderabad

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1.	3593/CHE/2011 & 321056	A process for synthesizing Higher Chain Chito Oligosaccharides (CHOS)	2019	Appa Rao Podile & P. Purushotham	Department of Plant Sciences, School of Life Sciences, University of Hyderabad
2.	4196/CHE/2012 & 306342	A process for extraction of Neurosporene from a novel phototrophic bacterium <i>Rhodobacter viridis</i> JA 737 and utilization thereof	2019	Eedara Veera Venkata Ramaprasad, Chintalapati Sasikala & Chintalapati Venkata Ramana	Centre for Environment, J.N. T. University & School of Life Sciences, University of Hyderabad
3.	4961/CHE/2012 & 306335	A microbiological method using marine water for the production of Neurosporene from a marine bacterium <i>Rhodovulum</i> sp. JA756T and compositions containing the said pigment and process for making the same	2019	Eedara Veera Venkata Ramaprasad, Chintalapati Sasikala & Chintalapati Venkata Ramana	Centre for Environment, J.N. T. University & School of Life Sciences, University of Hyderabad