

Profile Page



Name : Dr Mahesh Kumar Sah

Designation : Assistant Professor

Department : Bio-Technology

Qualification : Ph.D (Integ.) Biotechnology and Medical Engineering (NIT Rourkela)
B.Tech Biotechnology (Bundelkhand University, Jhansi)

Address : Department of Biotechnology
Dr B R Ambedkar National Institute of Technology
Jalandhar, Punjab - 144011

Email : sahmk@nitj.ac.in

Phone : +91-7095044510

Research Interests :

Biomaterials for Tissue Engineering, Stem Cell Research, Nanotechnology, Biopolymers for Environmental Engineering, Waste Valorization, Computational Biology, Drug Delivery Systems

Other Profile Links :

Google Scholar Link :

Dr. Mahesh Kumar Sah [Click Here](#)

Journal Publications :

Year	Journal	Publication
2022	Journal of Polymer Engineering, De Gruyter, DOI: 10.1515/polyeng-2021-0315	Aakriti Aggarwal and Mahesh Kumar Sah*, Process optimization for extraction of avian eggshell membrane derived collagen for tissue engineering applications
2022	Journal of Environmental Health Science & Engineering, Vol. 31, pp. 1-19	Mahesh Kumar Sah*, Sunny Mukherjee, Bableen Flora, Naved Malek, Subha Narayan Rath, Advancement in “Garbage In Biomaterials Out (GIBO)” concept to develop biomaterials from agricultural waste for tissue engineering applications
2022	RSC Advances, Vol. 12(48), pp. 31004-31015	S. Mukherjee, S. Das, N. Sriram, S. Chakraborty*, Mahesh Kumar Sah*, In silico investigation of the role of vitamins in cancer therapy through inhibition of MCM7 oncoprotein
2022	3 Biotech, Vol. 12, Pp. 146. https://doi.org/10.1007/s13205-022-03207-1	Navneeth Sriram±, Sunny Mukherjee±, Mahesh Kumar Sah*, Gene expression profiling and protein–protein interaction analysis reveals the dynamic role of MCM7 in Alzheimer's disorder and breast cancer
2021	Molecular Biology Reports, Vol. 48, pp. 8227–8232	Navneeth Sriram, Mahesh Kumar Sah*, Regulatory insights into progression of cancer and Alzheimer's disorder from autophagy perspective

2021	bioRxiv	Sriram, Navneeth, Sunny Mukherjee, Mahesh Kumar Sah*, In silico study for decoding the correlated role of MCM7 gene in progression of breast cancer and Alzheimer's disorder
2019	Ceramics International, Vol.45 (10), pp. 12910-12919	U. K. Roopavath, M. K. Sah±, B. B. Panigrahi, S. N. Rath, Mechanochemically synthesized phase stable and biocompatible β -tricalcium phosphate from avian eggshell for the development of tissue ingrowth system
2019	Materials Today: Proceedings	Noor Salim Said AlBuraiki, BasmaAli Albadri, SalamaAlsheriqi, BalqisAlshabibi, SaifAl-Mammari, S.Premkumar, M.K.Sah, M.S.Sudhakar, Characterization of Catla catla and Oreochromis niloticus fish scales derived hydroxyapatite scaffolds for regenerative medicine
2017	Journal of Biomimetics, Biomaterials and Biomedical Engineering, Vol. 32, pp. 69-81	M. K. Sah, I. Banerjee, K. Pramanik, SEP cross-linked porous Silk Fibroin/PVA scaffolds for tissue regeneration: Fabrication, Characterization and Cyto-compatibility studies
2016	Materials Science & Engineering C, Vol. 67, pp. 807-821	M. K. Sah, S. N. Rath, Soluble Eggshell Membrane: A Natural Protein to Improve the Properties of Biomaterials used for Tissue Engineering Applications
2014	International Journal of Research in Environmental Science and Technology, Vol. 4(1), pp. 10-15	R. Roy, A. Mazumdar, M. K. Sah, S. S. Ray, Recent advancement in arsenic adsorbents: A mini review
2014	Journal of Applied Polymer Science, Vol. 131, pp. 40138	M. K. Sah, K. Pramanik, Soluble-eggshell-membrane-protein-modified porous silk fibroin scaffolds with enhanced cell adhesion and proliferation properties
2012	International Journal of Biomedical Engineering and Technology, Vol. 9(2), pp. 101-121	M. K. Sah, K. Pramanik, Surface Modification and Analysis of Natural Polymers for Orthopaedic Tissue Engineering: A Review
2011	African Journal of Biotechnology, Vol. 10(40), pp. 7878-7892	M. K. Sah, K. Pramanik, Preparation and Characterization and in vitro study of biocompatible Fibroin hydrogels for tissue engineering
2011	International Journal of Computer Application, Vol. 27(4), pp. 13-20	M. K. Sah, J. Sadanand & K. Pramanik, Computational Approaches in Tissue Engineering
2010	International Journal of Bioinformatics Research, Vol 2(2) 33-41	M. K. Sah, A. Kumar, K. Pramanik, The extraction of fibroin protein from Bombyx mori silk cocoon: Optimization of process parameters
2010	International Journal of Environmental Science and Development, Vol. 1(5), pp-404-408	M. K. Sah, K. Pramanik, Regenerated Silk Fibroin from B. mori Silk Cocoon for Tissue Engineering Applications
2009	Regenerative Medicine 4(6s):S271-S306	M. K. Sah, K. Pramanik, Preparation & characterization of porous silk fibroin scaffolds using salt leaching method for tissue engineering applications

Conference Publications :

Year	Conference	Publication
2022	Symposium for Biomaterials Online Conclave 2022 organized under MHRD-RUSA 2.0 "Biomaterials" project by the National Centre for Nanoscience and Nanotechnology, University of Madras in collaboration with SBAOI, STERMI and NGIS South Zone during 7-15 March, 2022	A. Aggarwal, M. K. Sah*, Avian eggshell membrane-derived collagen hydrogels for tissue engineering applications

2022	Symposium for Biomaterials Online Conclave 2022 organized under MHRD-RUSA 2.0 “Biomaterials” project by the National Centre for Nanoscience and Nanotechnology, University of Madras in collaboration with SBAOI, STERMI and NGIS South Zone during 7-15 March, 2022	S. Mukherjee, M. K. Sah*, Building a hydrogel-based antibiotic wound dressing from recycled biomaterials for the treatment of nail injuries
2022	International Conference on Current Advancements in Pharmaceutical Industry and Development (ICCAPID-2022) organized by Centre for Pharmaceutical Sciences, IST, Jawaharlal Nehru Technological University Hyderabad (JNTUH), India and Association of Pharmaceutical Research (APR) on 10-11 March, 2022	S. Mukherjee, M.K. Sah*, Extraction and characterization of keratin from waste human hair for the development of nanoparticles for drug delivery
2022	International Conference on Recent Advancements in Biosciences and Bioengineering (ICRABB-2022) organized by Department of Biotechnology, School of Engineering, SRM Institute of Science and Technology, Kattankulathur, during 23-25 February, 2022	S. Mukherjee, M.K. Sah*, Repurposing FDA approved antiviral drugs for cancer therapy (Best Oral Presentation Award)
2021	International Conference on Biomacromolecules and Cellular Interface (ICBCI-2021), Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab during 9-10 January 2021	B. Flora, A. Singh, M. K. Sah*, Chemical synthesis of hydroxyapatite and reduced graphene oxide composite with improved mechanical properties
2021	International Conference on Biomacromolecules and Cellular Interface (ICBCI-2021), Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab during 9-10 January 2021	A. Aggarwal, M. K. Sah, Cell laden nano-fibrous matrices modulated with electrospinning process optimization for bone tissue regeneration
2021	International Conference on Biomacromolecules and Cellular Interface (ICBCI-2021), Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab during 9-10 January 2021	NSS A Buraiki, B A Albadri, S Alsheriqi, B Alshabibi, M A Farsi, S A-Mammari, S. Premkumar, N A-Zeheimi, S A. Adham, M. K. Sah, M S Sudhakara, Hydroxyapatite Scaffolds Synthesized from the Scales of Endemic and Exotic Fishes- A Potential Biomaterial for Regenerative Medicine and Tissue Engineering
2021	International Online Conference on Materials Science and Technology (ICMT 2021) organized by Mahatma Gandhi University, Kottayam, Kerala, India & Gdansk University of Technology, Gdansk, Poland & Wroclaw University of Technology, Wroclaw, Poland during 12th - 14th November 2021	M. K. Sah, Eggshell: multi-layered composite material for hard and soft tissue engineering
2019	International Conference on Biomedical Engineering, Bioscience, Bioinformatics, Biochemistry Cancer Biology, Molecular Biology and Applied Biotechnology (BCM-2019), 12 January 2019, Krishi Sanskriti, Jawaharlal Nehru University, New Delhi, India	M. K. Sah, Partially De-Proteinized Human Hair: A Novel BioMaterial for Arsenic Remediation
2019	International Conference on Advanced Materials (ICAM-2019), 6-7 March 2019, Centre of Nanoscience and Nanotechnology, Jamia Milia Islamia, New Delhi, India	M. K. Sah, M. Badhan, R. Mane, B. B. Panigrahi, S. N. Rath, Calcified chitosan biopolymer matrix from crab shell supporting the proliferation of human umbilical cord blood derived mesenchymal stem cells

2019	International Conference on Materials and Manufacturing Methods (MMM-2019), 5-7th July, 2019, National Institute of Technology, Tiruchirappalli, India	N.A.L. Breikia, B.A. Albadria, S. Alsheriqi, B. Alshabibia, S. Al-Mammarib, S. Premkumar, M. K. Sah, M.S.Sudhakar Characterization of Catla catla and Oreochromis niloticus Fish Scales Derived Hydroxyapatite Scaffolds for Regenerative Medicine
2019	2nd International Conference on Emerging Trends in Traditional and Technical Textiles (ICETT-2019), 1-3rd November, 2019, Department of Textile Technology, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab	A. Aggarwal, M. K. Sah, Soluble eggshell membrane protein/PVA blend three-dimensional porous sponge as artificial skin model
2019	2nd International Conference on Application of Biotechnology in Industry and Society (ABIS-2019), November, 2019, Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab	A. Aggarwal, M. K. Sah, Tunable collagen hydrogel patches as artificial skin
2019	XXXVIII Annual Conference of Indian Council of Chemists (ICC), 26-28th December 2019, Jaipur National University, Jaipur, Rajasthan, India	M. K. Sah, The physical chemistry of biomolecules: new paradigm of studies relevant to life phenomena
2017	Tissue Engineering and regenerative medicine international society (TERMIS) European Chapter Meeting, 6 - 30 June, 2017, Davos, Switzerland	Uday K. Rooparth, M. K. Sah, S. N. Rath, A novel approach for the synthesis and fabrication of naturally derived biocompatible β -TCP scaffolds through mechanical stimulation
2016	India International Science Festival (IISF) Young Scientists' Conclave (YSC), Govt. of India, 8-11 December, 2016, New Delhi, India	M. K. Sah, Uday K. Rooparth, Bharat B. Panigrahi, S. N. Rath, Effect of pretreatment on Ultrasonic Assisted Extraction of Water Soluble Eggshell Membrane Protein
2016	World Biomaterial Congress-2016 (WBC2016), 23-27 May, 2016, Montreal, Canada	M. K. Sah, S. N. Rath, I. Banerjee, K. Pramanik, SEP cross-linked porous Silk Fibroin/PVA scaffolds for tissue regeneration: Fabrication, Characterization and Cyto-compatibility studies
2011	National conference on Tissue Engineering: Prospects & Challenges (TEPC-2011), 21-22 January, 2011, NIT Rourkela, India	M. K. Sah, K. Pramanik, Development, Characterization and Cyto-compatibility of Silk Fibroin/PVA scaffolds for bone tissue engineering
2010	International Conference on Biomaterials, Artificial Organs & Tissue Engineering (ICBAT 2010), 28th February to 1st March, 2010, SCMS Cochin, India	M. K. Sah, K. Pramanik, Biorelevant study of Silk Fibroin nHAP composite scaffolds for bone tissue engineering
2010	International conference on Biomedical Engineering and Assistive Technologies (BEATS-2010), 17-19 December, 2010, NIT Jalandhar, India	M. K. Sah, J. Sadanand, A. Kumar, Development and Biorelevant study of Salt Leached Polyvinyl Alcohol (PVA) Scaffolds
2009	National Conference on Biotechnology for Human Development (SBTI-2009), School of Biosciences Technology, 27-28 November, 2009, VIT University, India	M. K. Sah, A. Kumar, K. Pramanik, Use of Experimental Design Method to Investigate the extraction of Fibroin Protein from Bombyx mori Silk Cocoon
2009	World Conference on Regenerative Medicine (WRM-2009), 29-31 October, 2009, Leipzig, Germany	K. Pramanik, M. K. Sah, Preparation and Characterization of Porous Silk Fibroin Scaffolds using Salt Leaching Method for Tissue Engineering Applications
2008	International Conference on Medical Materials, devices & Regenerative Medicine (MMDRM-2008), organized by SBAOI & STERMI, College of Biomedical Engg. & Applied Sciences, November 23 -25, 2008, Kathmandu, Nepal	M. K. Sah, K. Pramanik, Surface Modification and Analysis of Natural Polymers for Orthopaedic Tissue Engineering

	International Conference on Biomacromolecules and Cellular Interface (ICBCI-2021), Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab during 9-10 January 2021	NSS A Buraiki, B A Albadri, S Alsheriqi, B Alshabibi, M A Farsi, S A-Mammari, S. Premkumar, N A-Zeheimi, S A. Adham, M. K. Sah, M S Sudhakara, Hydroxyapatite Scaffolds Synthesized from the Scales of Endemic and Exotic Fishes- A Potential Biomaterial for Regenerative Medicine and Tissue Engineering
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Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISSN No.	Year
Book	Natural Polymers in Wound Healing and Repair	ELSEVIER	Editors: Mahesh Kumar Sah, Naresh Kasoju, João F. Mano	978-0323905145	2022
978-0323905145	“Silk Fibroin and Silk Sericin in Skin Tissue Engineering and Wound Healing: Retrospect and Prospects”, In Mahesh Kumar Sah, Naresh Kasoju, João F. Mano (Eds.) Natural Polymers in Wound Healing and Repair	ELSEVIER	S. Mukherjee, RK Athira, N. Kasoju?, M. K. Sah?	978-0323905145	2022
Book Chapter	“Eggshell membrane in skin tissue engineering and wound healing”, In Mahesh Kumar Sah, Naresh Kasoju, João F. Mano (Eds.), Natural Polymers in Wound Healing and Repair	ELSEVIER	A. Aggarwal, M. K. Sah?	978-0323905145	2022
Book Chapter	“Innovative approaches and future perspectives of natural polymers in wound healing and repair”, In Mahesh Kumar Sah, Naresh Kasoju, João F. Mano (Eds.), Natural Polymers in Wound Healing and Repair	ELSEVIER	M. K. Sah?, N. Kasoju, J. F. Mano	978-0323905145	2022
Book Chapter	“Composite Biomaterials in Tissue Engineering: Retrospective and Prospects”. In B. Bhaskar, S. N. R. Parcha, N. Kasoju, V Nagarjuna, B. Rama Raju (Eds.) Biomaterials in Tissue Engineering and Regenerative Medicine	Springer Nature	C. Khanna, M. K. Sah?, B. Flora	978-981-16-0001-2	2021
Book Chapter	“Electrospun materials as scaffolds in tissue engineering and regenerative medicine” In Naresh Kasoju, Hua Ye (Eds.), Biomedical Applications of Electrospinning and Electrospraying	ELSEVIER	A. Aggarwal, M. K. Sah?	9780128224762	2021
Book Chapter	“IoT based solutions for smart healthcare” In Monika Mangla, Nonita Sharma, Poonam Mittal, Vaishali Mehta, Thirunavukkarasu, Shahnawaz Khan (Eds.), The Emergence of Technology for Automated Healthcare: IoT and DL Models	Wiley & Sons	Pankaj Jain, Sonia F Panesar, Bableen F. Talwar, M. K. Sah?	9781119791720	2021

Book	Proceeding of International Conference on Biomacromolecules and Cellular Interface (ICBCI-2021), 9-10 January 2021	Dr. B. R. Ambedkar National Institute of Technology Jalandhar	Editors: Dr. Mahesh Kumar Sah, Dr. Rohit Mehra, Dr. Asim K. Jana	978-93-5437-648-1	2021
Book Chapter	"Engineering biomaterials for the bioremediation: Advances in nano-technological approaches for heavy metals removal from natural resources", In Maulin Shah, Susana Rodriguez Couto, Sevinc Sengor (Eds.), Emerging Technologies in Environmental Bioremediation	ELSEVIER	MS Sudhakar, A Aggarwal, MK Sah	978-0-12-819860-5	2020
Book Chapter	"Biological Approaches for Intoxification of Aquatic System", In: Advances in Environmental Engineering	Excel India Publishers, New Delhi	M. K. Sah, R. Kaur, C. Bhattacharya, & K. Pramanik	978-93-80043-45-6	2009

Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
Principle Investigator	Seed Grant	Development of human hair keratin based matrix for arsenic removal from water resources	TEQIP Phase-III	03-12-18	02-12-19	2,00,000	Completed	Dr. Indu Chauhan
DBT-RA Fellow	Externally Funded Project	Development and scale up of Soluble eggshell membrane protein (SEP) impregnated in vitro tissue construct with induced bio-mineralization for bone tissue engineering	DBT (GOI)	01-01-2015	31-07-2016	10,0,0000	Completed	

Events Organized :

Category	Type	Title	Venue	From	To	Designation
Expert Talk	National	Talk by "Nalin Singh-Life Coach, Business Strategy consultant, Author & Entrepreneur"	NIT Andhra Pradesh, Tadepalligudem (A.P.)	24-03-2017	24-03-2017	Organizing Member

Workshop	National	TEQIP Workshop on Tissue Engineering: Biomaterials and stem cells for manufacturing of biological tissues	Indian Institute of Technology Hyderabad	20-03-2017	25-03-2017	Invited Instructor
Workshop	National	TEQIP Workshop on Biomaterials and stem cells for manufacturing of biological tissues	Indian Institute of Technology Hyderabad	18-07-2016	23-07-2016	Instructor
Seminar	National	Biomedical Instrumentation & Scope (BIS-2013)	Mahavir Institute of Engineering & Technology, Bhubaneswar, Odisha	13-09-2013	14-09-2013	Convener
FDP/STC	National	Recent Advancement in Biomaterials and Nanotechnology for Biomedical Applications	Dept. of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab	24-05-2019	28-05-2019	Course Coordinator
Expert talk	National	Patent, Design, and Trademark	Department of Biotechnology, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab	24-01-2020	24-01-2020	Convener
Expert talk	National	Ionic liquids as green solvent for processing and chemical modification of Biomaterials	Department of Biotechnology, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab	18-02-2020	18-02-2020	Convener
Webinar	National	Innovations against COVID-19: Start-up opportunities for medical informatics, biopharma, and biomedical products	Department of Biotechnology, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab	27-06-2020	27-06-2020	Convener
Online STC cum Workshop	National	Manufacturing technologies for Tissue Engineering and Drug Delivery Systems (MTTEDD2K20)	Department of Biotechnology, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab	03-10-2020	07-10-2020	Course Coordinator
Self-sponsored Online International Conference	International	International Conference on Biomacromolecules and Cellular Interface (ICBCI-2021)	Department of Biotechnology, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab	09-01-2021	10-01-2021	Secretary

Workshop	National	National workshop on Innovation, IPR and Commercialization (IIC-2021)	Innovation Club, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab	06-03-2021	07-03-2021	Coordinator
Workshop	National	Air Pollution and Health Hazards (APHH-2021)	Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab in association with Punjab Pollution Control Board (PPCB), Punjab State Govt., Punjab	31-03-2021	31-03-2021	Coordinator
Webinar	National	Webinar on Millets for a Healthy Life	Agribusiness and Entrepreneurship Cell, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab in association with Kheti Virasat Mission Punjab (NGO)	16-12-2021	16-12-2021	Coordinator

Professional Affiliations :

Designation	Organization
Founder Life Member	Indian Society of Nanomedicine, ISNM-LF-110, New Delhi since December 2017
Life Member	Society for Biomaterials and Artificial Organs (India), SBAOI, LM518, since November 2007
Reviewer	Materials Science and Engineering: C, Elsevier, ISSN: 0928-4931, since 2015
Reviewer	Journal of Applied Polymer Science, John Wiley & Sons Inc., Online ISSN: 1097-4628 since 2012
Reviewer	eXPRESS Polymer Letters, ISSN 1788-618X, Budepest University of Technology and Economics since 2013
Reviewer	Environmental Engineering Science, Mary Ann Libert Inc., ISSN:1092-8758 since 2016
Life Member	Asian Polymer Association (APA), LM-542, since March 2019
Member	IEEE Engineering in Medicine and Biology Society Membership since December 2020
Member	IEEE since December, 2020
Member	IEEE Young Professionals since December 2020
Reviewer	Journal of Biological Engineering, BioMed Central Ltd., ISSN: 1754-1611, since 2020
Reviewer	Journal of Nanomaterials, Hindawi, ISSN: 1687-4110, since 2021
Reviewer	Journal of Science: Advanced Materials and Devices, Elsevier, ISSN: 2468-2179 since 2021

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Mr. Siddhartha Dan	Biomaterials development for tissue regeneration	Ongoing	2022	--

Ms. Aakriti Aggarwal	Valorization of agro-waste materials and its applications in tissue engineering	Ongoing	2019	--
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PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Mr. Sunny Mukherjee	Synthesis, characterization, and the evaluation of anti-cancer activity of drug loaded keratin nanoparticles against MCF-7 human breast cancer cell line	Completed	2020-22	
Mr. Navneeth Sriram	Correlated regulatory mechanism involved in Breast Cancer and Alzheimer's Disease: An in-silico study	Completed	2019-21	

Patents :

Name	Reg./Ref. No.	Date of Award/Filing	Organization	Status
Mahesh K. Sah, Uday K. Roopavath, Subha N. Rath, Bharat B. Panigrahi, METHOD FOR EXTRACTION OF WATER SOLUBLE EGGSHELL MEMBRANE PROTEIN	201731017393	23-11-2018	Intellectual Property India (GOI)	Published
Mahesh Kumar Sah, SINGLE PIECE FULL BODY PPE COVER	Design no. 329225-001	22-02-2021	Intellectual Property India (GOI)	Granted
Mahesh Kumar Sah, A. Bhardwaj, Lalit K. Awasthi, BODY TORSO COVER	Design No. 332357-001	23-11-2022	Intellectual Property India (GOI)	Granted
Mahesh Kumar Sah, A. Bhardwaj, Lalit K. Awasthi, HEAD PPE MASK	Design No. 332812-001	16-02-2023	Intellectual Property India (GOI)	Granted
Mahesh Kumar Sah, A. Bhardwaj, Lakhwinder Pal Singh, Lalit K. Awasthi, INCINERATOR FOR BIOMEDICAL WASTE MANAGEMENT	Patent Application No. 202111000129	03-01-2021	Intellectual Property India (GOI)	Filed
Mahesh Kumar Sah, Nitesh Kashyap, ROBOTIC ARM FOR MEDICAL ASSISTANCE	Patent Application No. 202011055407	19-12-2020	Intellectual Property India (GOI)	Filed
Mahesh Kumar Sah, Sunny Mukherjee, DESALINATION SYSTEM FOR WATER TREATMENT	Patent Application No. 202111013356	26-03-2021	Intellectual Property India (GOI)	Filed
Sunny Mukherjee; Shubham Sadhya, Mahesh Kumar Sah, Kapil Goyal, AN AUTOMATED INDEPENDENT DIALYSIS MACHINE FOR PROTEIN PURIFICATION	Patent Application No. 202211054520	23-09-2022	Intellectual Property India (GOI)	Filed

Admin. Responsibilities :

Position Held	Organization	From	To
Faculty-in-charge, Innovation & Entrepreneurship Club	NIT Andhra Pradesh, Tadepalligudem (A.P.)	29-08-2017	06-01-2018
Faculty Adviser, Training and Placement	Dept. of Biotechnology, NIT Andhra Pradesh, Tadepalligudem (A.P.)	10-2017	06-01-2018
Faculty Adviser, Biotechnology Association (BA)	Dept. of Biotechnology, NIT Andhra Pradesh, Tadepalligudem (A.P.)	22-11-2016	31-05-2017
Technical Head, Dept. of Biotechnology	Cultural and Technical Fest, VULCANZY-2K17, NIT Andhra Pradesh	24-03-2017	25-03-2017
Member, Institutional R&D Committee	MIET, Bhubaneswar, Odisha	07-2013	12-2014
Member, Flying Squad Team for Regular Examination in Affiliated Institutions	Biju Patnaik University of Technology (BPUT), Odisha	04-2014	12-2014

Award and Honours :

Title	Activity	Given by	Year
Best Oral Presentation (Sunny Mukherjee) M. K. Sah*	International Conference on Recent Advances in Bioscience and Bioengineering 2022 (ICRABB-2022)	SRM Institute of Science and Technology Kattankulathur, Tamil Nadu, India	2022
Invited talk	Online STTP on Journey of Analytical Techniques in Chemical and Biological Sciences (JATCBS– 2022)	S. V. National Institute of Technology, Surat, Gujarat, India	2022
Best Oral Presentation (Aakriti Aggarwal) M. K. Sah*	Symposium for Biomaterials Online Conclave 2022	MHRD-RUSA 2.0 “Biomaterials” project by the National Centre for Nanoscience and Nanotechnology, University of Madras in collaboration with SBAOI, STERMI and NGIS South Zone	2022
Invited talk	International Online Conference on Materials Science and Technology (ICMT 2021)	Mahatma Gandhi University, Kottayam, Kerala, India & Gdansk University of Technology, Gdansk, Poland & Wroclaw University of Technology, Wroclaw, Poland	2021
Outstanding Researcher in Biomaterials and Tissue Engineering-2020	Contribution and achievement in the discipline of engineering	Venus International Foundation, India	2021
Invited talk	Workshop	TEQIP-III, Bundelkhand Institute of Engineering and Technology (BIET), Jhansi	2020
Invited Jury Member	International Conference on Chemical Sciences in Sustainable Technology and Development (IC2S2TD-2020)	S. V. National Institute of Technology, Surat, Gujarat, India	2020

Media Coverage	Developed "SINGLE PIECE FULLBODY PPE COVER" for COVID-19	Coverage by 10-05-2020: Hindustan, Deoghar, Jharkhand edition; 12-05-2020: Prabhat Khabar, Deoghar, Jharkhand edition; 01-06-2020: Dainik Jagran, Jalandhar, Punjab Edition	2020
I2OR National Eminent Young Researcher Award-2020	Innovative contribution for the COVID-19 management	International Institute of Organized Research (I2OR) India	2020
Invited Talk and Session Chair	XXXVIII Annual Conference	Indian Council of Chemists (ICC)	2019
Green ThinkerZ Preeminent Engineer Award-2019	Contribution to the field of biomaterials and tissue engineering	Green ThinkerZ - India in association with Centre for Modern Construction, Western Sydney University, Australia	2019
Media Coverage	Research work on "Mechanochemically synthesized phase stable and biocompatible β -tricalcium phosphate from avian eggshell for the development of tissue ingrowth system" in collaboration with IIT Hyderabad, India	NDTV India, The Hindu, IndiaToday, EconomicTimes, OdishaTV, ANI News, Dainik Bhaskar, Telugu News and many more during 15-17th August 2019	2019
Bharat Vikas Award -2017	Contribution to the field of tissue engineering	Institute of Self Reliance India (ISR India), Bhubaneswar, India, 19th November, 2017	2017
Developing Country Sponsorship Award-selected	Presentation in World Biomaterial Congress-2016 (WBC2016), 17-22 May, 2016, Canada	AccelLAB Inc., Quebec, Canada	2016
DBT-Research Associate (RA) Fellowship	Research at Dept. of Biomedical Engg., IIT Hyderabad	Dept. of Biotechnology (DBT), Govt. of India	2015-2016
Graduate Aptitude Test for Engineering (GATE)	PhD Fellowship	MHRD	2007
First Prize	National Level Essay Competition on "Bioremediation of Aquatic System"	Institute of Environmental & Developmental Studies, Bundelkhand University, Jhansi	2006
Third Prize for Rotary Cell Culture System Model	All India Engineering Projects Contest "Techtrix 2005"	Bundelkhand University, Jhansi	2005