



Memorandum of Understanding between
Indian Institute of Technology (IIT), Ropar
and
CSIR-Institute of Microbial Technology (IMTECH), Chandigarh

In the spirit of intellectual cooperation scholarly exchange, and the development of national partnership with leading institutions, Indian Institute of Technology Ropar and CSIR-Institute of Microbial Technology, Chandigarh, agree to establish a program of exchange and collaboration on related matters of mutual interest that may emerge over time.

1. The purpose of this MoU is to facilitate exchange of ideas, development of new knowledge, promote collaborative research and enhance high quality research acumen. **The objective of this collaboration is to carry out state of the art research in the areas of health care especially in projects and mission where both the institutes can significantly complement each other which shall include but not limited to areas of:-**
 - a. Microbial Technology and Environmental Bioremediation.
 - b. Biotherapeutics including Vaccines, Drugs, Protein Therapeutics and Diagnostics.
 - c. Biosensors and Nanotechnology Research Area.
 - d. Biochemical & Protein Engineering and Fermentation technologies.
 - e. Bioinformatics & Big Data Analytics and Artificial Intelligence applications in Health care.

2. The modes of cooperation will include:
 - a. Exchanges of faculty and students for the purpose of research and teaching. IIT Ropar and CSIR-IMTECH shall confer Adjunct Faculty status to each other's faculty and scientists;
 - b. Development and implementation of collaborative research projects, professional development programs, and capacity-building efforts;
 - c. Dissemination of findings through scholarly publications, white papers, and in the media;
 - d. Jointly protect and share intellectual property (IP) arising out of collaborative efforts and facilitate deployment of such IP for societal benefits and/or commercialization.
 - e. Joint sharing for inventors in publications and copyrights under collaborative projects and the priority in the authorship shall be decided on the basis of the extent of contribution in the

manuscript. Both the institutes shall jointly bear the publication charges where there are co-corresponding authors.

- f. Collaborative grant-writing efforts for any endeavors as listed above;
3. To achieve the goals of this collaboration, both parties will, in so far as the means of each allow,
 - a. Promote institutional exchange by inviting faculty and student researchers of the partner institution to participate in appropriate research and training activities;
 - b. Jointly organize symposia, conferences, and meetings on timely research issues;
 - c. Develop and carry out joint research programs and encourage researchers at both institutes to mutually share their expertise;
 - d. Exchange information pertaining to the agreed-upon research areas; and
 - e. Share research infrastructure, facilities and instrumentation as per institutional policy and statutory regulations wherever applicable.
4. Prior to the initiation of any particular project or activity, specific terms of collaboration for that project will be discussed and agreed upon in writing by the appropriate representatives of both institutions.
5. Financial arrangements for specific activities will be mutually agreed upon and will depend upon the source of funds. In addition, the scope of the activities will be subject to funds available at the institutions for the type of collaboration undertaken and any financial assistance that may be obtained by either from external sources.
6. Either party may propose specific individual research projects for collaboration. Such proposal may be made at any time and the parties will develop an agreement for each agreed-upon project. The protection and exploitation of any intellectual property arising out of a research project will be addressed in each individual project agreement separately.
7. Day to day implementation of this Agreement will be coordinated by Director, IIT Ropar and Director, CSIR-IMTECH, Chandigarh.
8. Each party agrees to release and hold the other harmless from and against any claims, damages, liability or costs, to the extent such claims damages, liability or costs do not arise from the negligent or willful acts or omission of the other party or any of its agents or employees in connection with their respective performance under this MoU.
9. The parties agree that in the course of implementing this MoU, they will not engage in unlawful discrimination on the grounds of race, gender, sexual orientation, age, religion, social class, national or ethnic origin or disability.
10. Amendments to this MoU may be made at any time by mutual agreement. Any such amendment will be in writing and signed by both parties.



11. This MoU will remain in force for a period of three (3) years from the date it is fully executed. The MoU can be suitably modified, as agreed to by both the parties, to reflect an increased scope, nature of engagement of activities including financial commitments, if any. Prior to the expiration date, the MoU may be reviewed for possible renewal. In addition, either party may terminate the MoU in advance of its normal expiration by providing the other with six months' prior written notice. In this case, persons already approved as exchange participants will be allowed to complete their exchange visits under the conditions specified at the time of their invitation to the host institution.

SO AGREED:


मनोज राजे, पीएच.डी. कार्यकारी निदेशक
Manoj Raje, Ph.D. Acting Director
भारतीय प्रौद्योगिकी संस्थान
Institute of Microbial Technology
(CSIR, Govt. of India)
संक्टर-35/ए, चण्डीगढ़ (भारत)
Sector 35-A, Chandigarh (India)

Director
CSIR-IMTECH, Chandigarh

Date: 26-09-2019


सरित क. दास / Sarit K. Das
निदेशक / Director
भारतीय प्रौद्योगिकी संस्थान रोपर
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Nangal Road, Rupnagar, Punjab-140001

Director
Indian Institute of Technology, Ropar

Date: 26/9/2019