TMDU'S COMMITMENT TO PIONEERING MEDICAL AND DENTAL RESEARCH

Tokyo Medical and Dental University aims to enhance its research capabilities through DYNAMIC COMMUNICATION achieved by integrating internal research organizations and collaborating with global institutions.

A small but integrated university located in Tokyo's historic district of Yushima, Tokyo Medical and Dental University (TMDU) is characterized by its flexible and efficient management, which mega-universities simply cannot offer.

TMDU's key strengths include its affiliations with two hospitals — the Medical Hospital and the Dental Hospital — that allows for the effective application of basic research to clinical medicine. For example, the Intractable Research to the Clinical Research actively applies the fruits of basic research to clinical medicine.

Tokyo Medical and Dental Hospital — that allows for the effective application of basic research to clinical medicine. Each year approximately 20 young researchers are selected with great care from within the university to carry out investigations into new fields of inquiry, independent of their affiliated departments and under the guidance of this special unit. TMDU's unmatched synthesis of basic research and clinical research makes it possible to provide unique environments for fostering human resources.

Graduate school education and overseas-satellite offices

The university established the Research Core Center to facilitate research activities both internally and with other universities and organizations. This center coordinates university-wide sharing of equipment and supports TMDU's basic and clinical research platforms.

Moreover, the university has created a next-generation researcher-training unit with instruction from top overseas academicians to nurture the growth of young researchers. Each year approximately 20 young researchers are selected with great care from within the university to carry out investigations into new fields of inquiry, independent of their affiliated departments and under the guidance of this special unit. TMDU's unmatched synthesis of basic research and clinical research makes it possible to provide unique environments for fostering human resources.

Strengthening multidisciplinary research and training

To bolster its priority research fields, TMDU launched in 2017 from the Division of Advanced Multidisciplinary Research, which in its first year has focused on the field of regenerative medicine. The division plans to expand its efforts to the fields of genomic medicine and inflammation/immunology. With the help of overseas advisors, TMDU's aim going forward is to communicate research results keenly attuned to international trends.

By leveraging its national study abroad programs, TMDU has seen many of its post-doctoral researchers working in laboratories in Harvard University; the University of California, San Francisco; Washington University; New York University, and North Carolina University, among others. Through various public relations activities, TMDU aims to strengthen alliances with overseas research institutes and promote information about its research achievements and programmes around the world. Using these approaches, TMDU aims to be one of the world’s best universities making the greatest impact in medical and dental research.

TMDU also utilizes Japan's national study abroad programmes to support young researchers going to research institutions in the United States and Europe. In the future, the university anticipates setting up TMDU research centres in those countries, thereby creating lasting alliances with those institutions.

Global communication and future prospects

By communicating the research results of TMDU's top researchers, the university aims to publicize their affiliation with TMDU and boost its profile on the global stage. Additionally, in research fields where TMDU has specific strengths — such as regenerative medicine, intractable diseases, and oral/dental diseases — the university aims to further increase research capabilities and dedicate greater efforts to fostering next-generation researchers.

Collaborative Research

TOKYO MEDICAL AND DENTAL UNIVERSITY is fostering collaborations through various joint international projects.

NUMBER OF DOMESTIC AND INTERNATIONAL COLLABORATING INSTITUTIONS (2012-2016)

<table>
<thead>
<tr>
<th>Year</th>
<th>Domestic</th>
<th>International</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>7044</td>
<td>1113</td>
</tr>
<tr>
<td>2013</td>
<td>11,132</td>
<td>2,604</td>
</tr>
<tr>
<td>2014</td>
<td>15,016</td>
<td>6,084</td>
</tr>
<tr>
<td>2015</td>
<td>16,984</td>
<td>6,390</td>
</tr>
<tr>
<td>2016</td>
<td>20,112</td>
<td>6,584</td>
</tr>
</tbody>
</table>

TOP 5 INTERNATIONAL COLLABORATORS (2011-2017)

1. Harvard University, USA
2. National Institutes of Health, USA
3. National University of Singapore, Singapore
4. University of Pennsylvania, USA
5. National Institute for Health and Medical Research, France

The TMDU is a private university in Japan, making it one of the world's top medical and dental universities. By strengthening alliances with overseas research institutes and promoting information about its research achievements and programmes around the world, TMDU aims to be one of the world's best universities making the greatest impact in medical and dental research.