### UTokyo Amgen Scholars Program 2023
#### Host Laboratories & Project Topics

<table>
<thead>
<tr>
<th>Name of Faculty Member (Title)</th>
<th>TANOI Keitaro (Professor)</th>
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<tr>
<td>Name of Graduate School / Faculty / Institute</td>
<td>Graduate School of Agricultural and Life Sciences</td>
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<td>Research Topic &amp; Research Description</td>
<td>Ion transport assay of plant metal transporters using E.Coli.</td>
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#### 1) Prerequisite knowledge and/or specific skill and its proficiency
- DNA: extraction and purification; electrophoresis; Recombinant DNA technology (Gene Cloning);
- Polymerase Chain Reaction (PCR);
- UV/VIS Spectrophotometry.
- Bacteriology: Isolating and screening microorganisms; Bacterial culture identification.

#### 2) Required study field(s)
- Biotechnology, Bacteriology

#### 3) Academic background or research project experience to be considered at selection
- It is preferable if the person has a clear motivation what the person wants to do in my lab.
- It is better to have the experiences to perform PCR and E.Coli culture.

#### Lab Website
- [https://webpark1571.sakura.ne.jp/radioplantphys/](https://webpark1571.sakura.ne.jp/radioplantphys/)

#### Campus
- Hongo・Yayoi

#### Academic Research Areas
- Bioengineering
- Biotechnology
- Chemical and Biomolecular Engineering