Ph.D. Supervisors

<table>
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<tr>
<th>Role</th>
<th>Faculty</th>
<th>Academic Unit in IITD/Institute/University</th>
<th>Email ID (Official)</th>
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<tbody>
<tr>
<td>Supervisor 1</td>
<td>Dr. Shilpi Sharma</td>
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<tr>
<td>Supervisor 2</td>
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<td>Supervisor 3</td>
<td>Dr. Pascal Piveteau</td>
<td>UR OPAALE, Rennes, INRAE</td>
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## Project requirements (Student qualifications, experience required, etc)

- M. Tech / B.Tech. in Biotechnology / Plant Biotechnology / Agricultural Biotechnology
  OR
  M.Sc. in Plant Sciences / Botany / Microbiology / Agricultural Microbiology / Biotechnology
- **Experience required:** at least 6 months of experience in plant-microbe interactions / microbial ecology

## Source of fellowship/funding

( CSIR/UGC/DBT/ICMR/ICAR/NEET-PG/DST-INSPIRE/IRD/FITT Project details, if any)

CSIR/UGC/DBT/DST-INSPIRE JRF

## Role of Faculty Members involved:

**Dr. Shilpi Sharma** (DBEB, IITD) is an environmental microbiologist with expertise in analysis of soil microbial community composition, plant-microbe interaction and rhizosphere engineering. She has been working towards understanding the impact of various abiotic and biotic factors in **soil microbiome** and thereby on **soil health**.

**Dr Anil K Choudhary** (ICAR-CPRI) is an **agronomist**, specializing in **organic farming**, ecological footprinting, Integrated crop management, cropping system research, crop modeling & precision agriculture.

**Dr Pascal Piveteau** (Rennes, INRAE) is an expert in the detection and ecology of human pathogens in various ecosystems.

Integration of expertise in these three areas will ascertain the success of employing microbiomes / rhizosphere engineering for mitigation of pathogens in agricultural eco-system by drawing a holistic picture of the ecosystem.