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Research in one sentence

Green chemistry for making the environment better.

What is your uniqueness in your research?

I work on sustainable chemistry and the green chemistry, and we are thinking about how we can make the environment better. Furthermore, I believe that my uniqueness is that how we can motivate the students to do the research work because it's a long journey of five years.

Background of joint research with Japanese Co-PI

My Co-PI is Prof. Hayato Tsurugi from Osaka University and our topic of joint research is Atom Economic Hydroboration of C X Unsaturated Bonds as Green Method for Organic Synthesis.

This is a long story because I have completed my postdoctoral research in Japan as a JSPS Postdoctoral Fellow. He was the assistant professor, and we started our career almost at the same time. Connection would be made in the past and that continues almost every year. We had discussed how to exchange students and make bilateral relationships. That was our start of collaboration.

What are the tips to have collaborated with Co-PI for so long?

To make long-term relationships or bilateral collaborations, first, we have to have a proper understanding. One good thing for me is what I have learned in Japan in the past and how to approach a problem. Of course, collaboration should be dynamic and very honest about the objectives we have so that we can deliver the objectives on time.

What are benefits from collaboration with Japanese Co-PI?

This is a kind of joint venture. The most important benefit is that we can take this research forward by utilizing strengths from both sides. For students, they can get a very good opportunity to expose themselves to Co-PI's lab and know how to develop their connections.

Prospects regarding India-Japan collaboration

We have developed various catalysts which can make a biodegradable polymer. This can be a single point, but if the industry can be interested and we get their support, we can really explore those possibilities in the market.

Do you recommend JICA Research Grant under FRIENDSHIP 2.0 to the other faculty members?

Yes, this is a very good one to initiate collaboration. If you have mutual support and a good relationship, it helps collaboration long-lasting. Collaboration through this grant will strengthen your research, build a good relationship, and make your activities more sustainable.

