

# Stanford

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## Sharmili Roy

Postdoctoral Scholar, Oncology

### Bio

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#### PROFESSIONAL EDUCATION

- National Post Doctoral Fellow, Indian Institute of Technology, Guwahati , Biotechnology (2019)
- Ph.D, Brunei Universiti , Biotechnology (2017)
- Master of Science, Boras University , Industrial Biotechnology (2011)
- B.Tech, SRM University , Engineering in Biotechnology (2009)

#### STANFORD ADVISORS

- Hanlee Ji, Postdoctoral Faculty Sponsor
- Hanlee Ji, Postdoctoral Research Mentor

#### PATENTS

- Sharmili Roy, Minhaz Uddin Ahmed. "United States Patent US10889854B2 System and method for immobilization free electrochemiluminescence DNA detection using a luminophore dye for multi-species detection", Universiti Brunei Darussalam, Jan 12, 2021
- Sharmili Roy, Ibrahim Abdul Rahman, Minhaz Uddin Ahmed. "United States Patent US10465244B2 Electrochemical DNA biosensor using graphene biochip for species identification", Universiti Brunei Darussalam, Nov 5, 2019

### Publications

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#### PUBLICATIONS

- **A critical review on prospects of bio-refinery products from second and third generation biomasses** *CHEMICAL ENGINEERING JOURNAL*  
Goswami, L., Kayalvizhi, R., Dikshit, P., Sherpa, K., Roy, S., Kushwaha, A., Kim, B., Banerjee, R., Jacob, S., Rajak, R.  
2022; 448
- **Novel coronavirus (COVID-19) in environmental engineering perspective.** *Environmental science and pollution research international*  
Dehghani, M. H., Roy, S., Karri, R. R.  
1800
- **Recent nanobiotechnological advancements in lignocellulosic biomass valorization: A review.** *Journal of environmental management*  
Roy, S., Dikshit, P. K., Sherpa, K. C., Singh, A., Jacob, S., Chandra Rajak, R.  
2021; 297: 113422
- **COVID-19 transmission, vulnerability, persistence and nanotherapy: a review.** *Environmental chemistry letters*  
Khan, A. H., Tirth, V., Fawzy, M., Mahmoud, A. E., Khan, N. A., Ahmed, S., Ali, S. S., Akram, M., Hameed, L., Islam, S., Das, G., Roy, S., Dehghani, et al  
2021: 1–15
- **Immunotherapeutics for Covid-19 and post vaccination surveillance.** *3 Biotech*  
Sampath Kumar, N. S., Chintagunta, A. D., Jeevan Kumar, S. P., Roy, S., Kumar, M.

2020; 10 (12): 527

- **Diverse Molecular Techniques for Early Diagnosis of COVID-19 and Other Coronaviruses** *Diagnostic Strategies for COVID-19 and other Coronaviruses*  
Roy, S., et al  
Springer .2020: 135–159
- **Diagnostic Strategies for COVID-19 and other Coronaviruses** *Medical Virology: From Pathogenesis to Disease Control*  
edited by Roy, S., et al  
Springer .2020
- **Insights into Novel Coronavirus and COVID-19 Outbreak** *Diagnostic Strategies for COVID-19 and other Coronaviruses*  
Roy, S.  
Springer .2020: 1–17