

Stanford



Sharmili Roy

Postdoctoral Scholar, Oncology

Bio

PROFESSIONAL EDUCATION

- Bachelor of Technology, Unlisted School (2009)
- Master of Science, Unlisted School (2013)
- Doctor of Philosophy, Unlisted School (2017)
- 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

PUBLICATIONS

- Single-cell multi-gene identification of somatic mutations and gene rearrangements in cancer. *NAR cancer*
Grimes, S. M., Kim, H. S., Roy, S., Sathe, A., Ayala, C. I., Bai, X., Almeda-Notestine, A. F., Haebe, S., Shree, T., Levy, R., Lau, B. T., Ji, H. P.
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- A critical review on prospects of bio-refinery products from second and third generation biomasses *CHEMICAL ENGINEERING JOURNAL*
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Dehghani, M. H., Roy, S., Karri, R. R.

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- **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.
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- **COVID-19 transmission, vulnerability, persistence and nanotherapy: a review.** *Environmental chemistry letters*
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- **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.
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- **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