

Exciting opportunities at Indo-Irish biotech start up CyGenica

Position : Research Associate (RA-1)

Post	Code	No. of position
Research Associate	RA-1	1

Location: 700 NIP, NCL Innovation Park, Dr Homi Bhabha Rd, Pashan, Pune, Maharashtra

Cancer is painful. The treatment chemotherapy makes it even more torturous. It makes life miserable for 18 million cancer patients worldwide. Every year we almost lose 50 % of them. As opposed to this imagine a world when cancer patients do not have to be hospitalized again and again to get multiple and massive doses of chemotherapy. That dream of reducing the pain of cancer patients keep us awake. We are working towards enabling safe and targeted delivery of cancer therapeutics (be it chemotherapy drugs or biological (genome editing) therapeutics).

In this journey we are seeking skilled professionals with **3 D's, DEPENDABILITY, DETERMINATION and DEDICATION** to join us in revolutionizing the development of truly transformative medicines to help patients around the world. If you believe that you have that transformative potential and you want to be part of a multicultural international dynamic team, please send your latest curriculum vitae (CV) and a letter of intent to info@cycaonco.com latest by 31st March 2022. CVs without a letter of intent will not be considered for selection.

Why CyGenica?

CyGenica, an Indo-Irish startup founded in 2017 & operate from Cork, Ireland and Pune, India. We have developed a novel programmable biomolecular nanomachine that delivers therapeutic molecules to the precise cellular target. This technology has received international attention and recognition most notably national award from honourable President of India and the most innovative product award by New Frontiers Program, Enterprise Ireland.

We aim to develop the world's safest molecular carrier for drug delivery leading to better patient outcome. This is the most exciting time of growth at CyGenica and you have a unique opportunity to contribute to the development of our innovative product and make the endless possibilities of CRISPR-Cas9 technology to positively impact human health especially in transformative cancer therapeutics development.

We are dedicated and continuously implementing strategies to build a welcoming and nurturing work place by empowering everyone to push the boundaries of science and pioneer the future of cancer therapy. This will lead to better outcome for millions of cancer patients suffering worldwide. And regardless of your job title you are adding to that ripple effect of that positive impact in patients quality of life.

We are committed to live by our values **CREDIBILITY, COMPASSION & a CAN DO attitude** – that guides our actions and decisions and brings us joy on a daily

Job Description



basis; patient centricity is at the heart and soul of our innovation. Empowerment, empowerment and empowerment - is at the heart of the culture that we are building. CyGenica is an equal opportunity employer.

Please find more about us at:

Website: www.cygenica.com Twitter: @CycaOncoSol <https://in.linkedin.com>

Position Summary:

CyGenica is seeking to hire a highly motivated research associate having demonstrated experience in mammalian cell culture and live cell imaging. The chosen candidate will prepare protein-drug conjugates and perform tissue culture based potency, cell viability assays and confocal fluorescence imaging experiments to assess the growth inhibition/cytotoxicity and cell uptake of protein/ protein-drug conjugates. Good understanding and expertise in various analytical methods, confocal fluorescence imaging techniques is a must. Good communication skills and an ability to collaborate across functional areas is essential. The candidate will contribute to the group wide deliverables and be required to work on several projects simultaneously presenting results and updates at group meetings. The successful candidate will design, perform, and analyse experiments for our preclinical programs under supervision. Additional experience in protein expression and purification will be preferred.

Responsibilities:

- Designing and executing a multitude of in vitro experiments in cell biology/mammalian cell culture and evaluation by fluorescence (confocal) imaging, flow cytometry, ELISA and other cell based assays
- Establishing and executing various mammalian cell-based viability and potency assays, using reporter cell lines, primary cells, or transformed mammalian cell lines
- Preparation of protein-drug conjugates
- Preparing solutions and culture media
- Maintenance of multiple cell lines
- Isolating cells, proteins, particles, or analytes from experimental tissues or cell cultures
- Collect, analyse and present experimental data
- Maintain clear and complete experiment records on a daily basis
- Drafting/revising protocols and standard operating procedures (SOPs)
- Ability to work well within the team and communicate effectively
- Read literature on relevant proteins drug conjugates, fluorescence (confocal) imaging, flow cytometry, ELISA and other cell based assays drug delivery systems in oncology and other relevant areas
- Support and foster a safe and efficient working environment within the Laboratory and ensure the safety of colleagues and visitors and adhere to all health and safety guidelines.

Job Description



- Standard lab management and routine maintenance and troubleshooting of scientific equipment.
- Any other task as and when required by company
- Adherence to company policies and instructions

Laboratory Management

- Support and foster a safe and efficient working environment within the Laboratory and ensure the safety of colleagues and visitors and adhere to all health and safety guidelines
- Identifying and sourcing equipment and consumables (ordering and stocking) necessary
- Routine maintenance and troubleshooting of scientific equipment
- Carry out administrative work associated with the program of research as necessary
- Performs any additional tasks or projects as required

Skills & Competencies

- Experience with cell biology techniques including cell culture, various cell based assays, ELISA and fluorescence/confocal microscopy is must
- Common chromatographic methods for protein purification, protein functionalization (Ion exchange, affinity, size exclusion (SEC) and preparative SEC), SDS-PAGE and western blot
- Collaborative, openness, can do attitude, proactive, ownership mindset
- Result oriented, organized, delivering progress toward our mission
- Demonstrated respectful attitude towards organization structure, culture and values for maintaining peaceful and motivated environment
- Track record of strong problem solving and troubleshooting skills, organized, ability to prioritize responsibilities, and remain flexible with changing needs
- Must be motivated and able to work under strict deadlines
- Strong written and oral communication skills
- Proficiencies in MS Office and relevant software

What is essential for the role?

- M Sc/M Tech degree in biotechnology/life science/chemistry/biology with 2-3 years of strong expertise in cell biology/mammalian cell culture and fluorescence (confocal) imaging, flow cytometry, ELISA and other cell based assays. In addition to this experience in protein expression and purification is a plus
- Strong understanding of analytical biochemistry and experience in protein characterization is desirable

What is desirable for the role?



Job Description

- Industry experience in mammalian cell culture, cell-based assays, and live cell imaging
- Experience in GLP certified lab

What's next?

- Are you already imagining yourself joining us? Good, because we are excited to hear from you.
- Are you ready to bring your skills and attitude to the table? Great! We have one seat available and we hope it's yours.
- If you're curious to know more then please reach out to Fazlul H Krishnan (fazlul@cygenica.com)