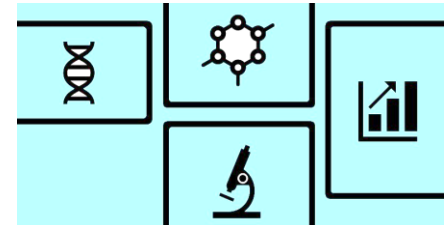


Training course on 'Methods in Cancer Biology Research'



The St. John's Research Institute (SJRI) at the St John's National Academy of Health Sciences (part of the CBCI Society for Medical Education) has had an ideal of excellence in academic courses as well as service to society with holistic approach to the problems of community health.

Theory sessions on:

Basics of cancer disease biology

Research methods:

- Gene expression and protein detection methods
- Cell line and animal model systems
- Clinical diagnostic tools

Gene expression analysis of formalin fixed tissues- basics of PCR and primer designing

Bioinformatics, Biostatistics and Bioethics

Practical/demo sessions on:

Nucleic acid extraction: DNA and RNA extraction from formalin fixed tissues

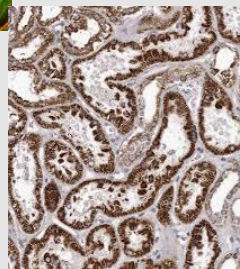
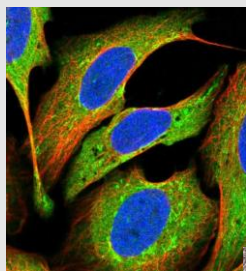
Gene expression analysis: cDNA conversion, real time PCR, normalization, and interpretation of results

Protein detection methods:

- Tissue and blood processing
- Immunohistochemistry and immunofluorescence on tissue and cell lines, imaging, and interpretation
- Basic flow cytometry assays

The molecular oncology lab at the Division of Molecular Medicine, SJRI has been involved in investigating the biological basis of breast cancer that are exaggerated in Indian women. The department is now inviting applications for a short-term training course on "Methods in Cancer Biology Research" comprising of theory and practical demo sessions.

The extensive sessions will be handled by senior faculty members/scientists with several years of experience in cancer biology research. Hard copy of certificate will be provided upon successful completion of the internship



Theory sessions: Virtual/online live theory classes will be conducted from 1st September 2021 to 8th September 2021. Total number of hours: 32 hours. The timings and details of faculty conducting the sessions will be communicated to the candidates after the selection procedure.

Course Fee: Rs.10000/-

Practical/demo sessions: Classes will be conducted from 20th September 2021 to 25th September 2021. Total number of hours: 25 hours. Venue: Division of Molecular Medicine, St John's Research Institute, Bengaluru.

Course Fee: Rs.7000/-

Eligibility:

Candidates who are pursuing and/or completed M.Sc in any branch of life sciences/M.tech biotechnology/ MBBS/MD/ B. Pharm/M. Pharm can apply. Selection is based on pre-screening and merit.

Interested candidates are encouraged to e-mail your brief CV and cover letter (specifying research interests and reasons for applying) to

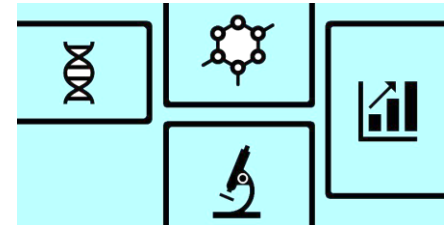
molecularoncologylab@sjri.res.in

on or before 11th August 2021. Late applications and personal correspondence are strictly not encouraged.

Accommodation facility with breakfast and lunch is available on campus for the duration of practical demo sessions for outstation candidates. Extra charges as applicable. Interested candidates may contact accomodations.molonc@gmail.com for further details.



Training course on 'Methods in Cancer Biology Research'



Theory sessions on:

- Basics of cancer disease biology
- Handling human biological material
- Basics of formalin-fixed, paraffin-embedded (FFPE) tissue, Immunohistochemistry and Tissue microarray (TMA)
- Basics of PCR
- q-PCR- Basics, Primer designing, Analysis of results
- Model systems as tools to decipher clinical questions:

Cell line and animal models

- Basics of Proteomics and Gene Sequencing
- Application of research methods at the clinic
- Bioinformatics, Biostatistics and Bioethics

Practical/demo sessions on:

- Nucleic acid extraction: DNA and RNA extraction from formalin fixed tissues and cell line
- Gene expression analysis: cDNA conversion, real time PCR, normalization, and interpretation of results
- Tissue and blood processing, H&E staining
- Protein detection methods: Immunohistochemistry and immunofluorescence on tissue and cell lines, imaging, and interpretation
- Basic flow cytometry assays

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