



श्री चित्रा तिरुनाल आयुर्विज्ञान और प्रौद्योगिकी संस्थान, त्रिवेंद्रम, तिरुवनन्तपुरम - 695 011, केरल, भारत
SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY, TRIVANDRUM

THIRUVANANTHAPURAM - 695 011, KERALA, INDIA

(एक राष्ट्रीय महत्व का संस्थान, विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार)

(An Institution of National Importance, Department of Science and Technology, Government of India)

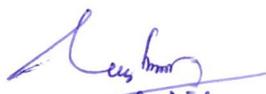
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MFCP SYLLABUS (Comprehensive)

SCIENTIFIC ASSISTANT (Lab) - PATHOLOGY

1. Histopathology techniques
 - a. Tissue processing for routine formalin-fixed paraffin-embedded tissue
 - b. Section cutting and microtomy, including cryomicrotomy for muscle biopsies
 - c. Artefacts related to section cutting and troubleshooting
 - d. Frozen section and squash smear preparation
2. Staining
 - a. Haematoxylin and eosin
 - b. Masson's trichrome
 - c. Verhoff van Gieson
 - d. Luxol fast blue
 - e. Lugol's iodine
 - f. Reticulin stain
 - g. Kulchitsky-Pal stain
 - h. Alcian blue
 - i. Ziehl-Neelsen stain
 - j. Grocott's methenamine silver
 - k. Periodic acid Schiff
 - l. Congo red
 - m. Perl's stain
3. Muscle enzyme histochemistry and immunohistochemistry
 - a. Modified Gomori's trichrome
 - b. Enzyme histochemistry for NADH-TR, SDH, COX-SDH and ATPase pH 9.4 and 4.6
 - c. Muscle immunohistochemistry on cryosections
4. Immunohistochemistry on formalin-fixed, paraffin-embedded tissue
5. Immunology tests:
 - ELISA (ANCA, APLA, dsDNA, Thyroglobulin, Thyroperoxidase, ACR, MUSK, Titin)
 - Indirect immunofluorescence tests (ANA, AQP4-MOG, VGKC, NMDA, Autoimmune encephalitis panel)
 - Immunoblots
 - Test for Oligoclonal bands: CSF & Serum


08/3/26
ADMINISTRATIVE OFFICER Gr. I (C)
SCTIMST