



## Animal Tissue Culturing Summer Training

NTHRYS provides Animal Tissue Culturing Summer Training for interested candidates at its Hyderabad facility, Telangana. Please refer below for more details including Fee structures, Eligibility, Protocols and Modules etc.,. Please do call / message / whatsapp for more details on 9014935156 [India - +91]

**Eligibility:** BSc / BTech / MSc / MTech / MPhil / PhD in any Life Sciences studying or completed students

### Protocols / Techniques Covered

Animal cells are more difficult to culture than microorganisms because they require many more nutrients and typically grow only when attached to specially coated surfaces. Despite these difficulties, various types of animal cells, including both undifferentiated and differentiated ones, can be cultured successfully.

NTHRYS Biotech Labs has introduced Animal Tissue Culture Training in the year 2009 to interested students / scholars. Please refer below for complete details:

#### Animal Tissue Culture Training Module

Module	Protocols List
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Module - I	<p><b>Protocols covered under this Module - I:</b></p> <ol style="list-style-type: none"> <li>1. Preparation of Animal Tissue Culture Media <ol style="list-style-type: none"> <li>1. Stock Solutions</li> <li>2. Eagle's Base (10X)</li> <li>3. Amino Acid Mixture (100X)</li> <li>4. Vitamin Mixture (100X)</li> <li>5. Ferric Nitrate (1000X)</li> <li>6. DMEM (1X) - (Working Medium)</li> <li>7. PBS (Phosphate Buffered Saline)</li> </ol> </li> <li>2. Cultivation of Human Bone Marrow Stem Cells</li> <li>3. Cultivation of Human Umbilical Cord Blood Stem Cells</li> <li>4. Cultivation of Human Cardiomyocytes</li> <li>5. Cultivation of HeLa Cells</li> <li>6. Passaging</li> <li>7. Preparation and Use of Conditional Media [ Using Human Cardiomyocytes ]</li> <li>8. Staining <ol style="list-style-type: none"> <li>1. Acid Phosphatase Staining</li> <li>2. Staining using Periodic Schiff's Reagent</li> </ol> </li> </ol>
Module - II	<p><b>Protocols covered under this Module - II:</b></p> <ol style="list-style-type: none"> <li>1. Separation of Fetal Human Serum [FHS] from Cord Blood.</li> <li>2. Collection of Cardiomyocytes source and isolation of Cardiomyocytes.</li> <li>3. Preparation of conditional media from cardiomyocytes cultivation.</li> <li>4. Collection &amp; Cultivation of Human Bone Marrow stem cells.</li> <li>5. Utilization of Cardiomyocyte Conditional media to transform Bone Marrow stem cells to cardiomyocytes.</li> <li>6. Utilization of Cardiomyocyte conditional media to transform Cord blood stem cells to cardiomyocytes</li> <li>7. Qualitative analysis for confirmation of Cord Blood Stem cells</li> <li>8. Qualitative analysis for confirmation of Human Bone Marrow stem cells</li> <li>9. Qualitative analysis for confirmation of Cardiomyocytes</li> <li>10. Qualitative analysis for confirmation of Cardiomyocytes transformed from Cord blood stem cells</li> <li>11. Qualitative analysis for confirmation of Cardiomyocytes transformed from Human Bone Marrow stem cells</li> </ol>
Module - III	<p><b>Protocols covered under this Module - III:</b></p> <ol style="list-style-type: none"> <li>1. Collection, Cultivation &amp; preservation of Cord blood stem cells.</li> <li>2. Collection &amp; Preservation of Human Cord Blood.</li> <li>3. Isolation, Cultivation &amp; Confirmation of Human Liver Cell Lines</li> <li>4. Isolation, Cultivation &amp; confirmation of Human Pancreatic Cell Lines</li> <li>5. Isolation, Cultivation &amp; confirmation of Human Alveolar Cell Lines</li> <li>6. Isolation, Cultivation &amp; Confirmation of Green monkey kidney cell lines</li> <li>7. Isolation, Cultivation &amp; Confirmation of Human Neural Cells</li> <li>8. Isolation, Cultivation &amp; Confirmation of Organ specific stem cells <ol style="list-style-type: none"> <li>1. Neural Stem Cells</li> <li>2. Bone Marrow Stem Cells</li> </ol> </li> </ol>

### Durations & Fee Structures

5 Days Duration - Module - 1 [Protocols 1, 2, 6 & 8]

10 Days Duration - Module - 1 [Protocols 1, 2,3,4, 6 & 8]

20 Days Duration - Module - 1 [All Protocols] & Module - 2 [Protocols 1,2,3 & 4]

1 Month Duration - Module - 1 [All Protocols] Module - 2 [All Protocols]

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45 Days Duration - Module - 1 [All Protocols] Module - 2 [All Protocols], Module - 3 [All Protocols]

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Fee details in Rs per student					
Fee	5 Days	10 Days	20 days	1 Month	45 Days
Individual	11200	11800	14800	18300	21600
Group 2 - 4	10700	10700	14100	17500	20600
Group 5 - 7	10600	10600	14000	17300	20400
Group 8 - 10	10500	10500	13800	17100	20200