

Certificate Course
Hands-On Training on Basics of Laboratory Animal Handling (Mice) & Research
Tentative Program Schedule for Participants

	Module 1 (5days)				Module 2 (7 days)				Module 3 (10 days)			
Days	(10.00 am)	(10:30am-12:30pm)	(2:00:pm-4:00 pm)	(4.30pm- 5:30 pm)	(10.00 am)	(10:30am-12:30pm)	(2:00:pm-4:00 pm)	(4.30pm- 5:30 pm)	(10.00 am)	(10:30am-12:30pm)	(2:00 pm-4:00 pm)	(4.30pm- 5:30 pm)
Day 1	Registration Visit: (SAF) ABSL2 Lab visit.	Introductory Speech: Theory: Basics of Animal House Maintenance & Management, animal care with CPCSEA guidelines: -	Theory & Discussion : [RC] a) Animal Ethics, (As per CPCSEA Norms) b) Different Animal Models Introduction & Demonstration: [RC] a) Anesthesia b) Mice Handling, c) Mice Dissection, d) Tissue Harvesting		Registration Visit: (SAF) ABSL2 Lab visit.	Introductory session: Basics of Animal House Maintenance & Management, animal care with CPCSEA guideline: Theory	Theory & Discussion : [RC] c) Animal Ethics, (As per CPCSEA Norms) d) Different Animal Models Introduction & Demonstration: [RC] e) Anesthesia f) Mice Handling, g) Mice Dissection, h) Tissue Harvesting		Registration Visit: (SAF) ABSL2 Lab visit.	Introductory session: Basics of Animal House Maintenance & Management, animal care with CPCSEA guideline: Theory	Theory & Discussion : [RC] e) Animal Ethics, (As per CPCSEA Norms) f) Different Animal Models Introduction & Demonstration: [RC] i) Anesthesia j) Mice Handling, k) Mice Dissection, l) Tissue Harvesting	
Day 2		Theory: (SAF) ABSL1 & 2 Facility Training Theory: (SAF) a) Microscopy b) Different type of Staining c) Tissue Morphology	Theory: (SAF) Anatomy & Physiology & Different Routes of Administration	Hands On: Mice Handling [Practice Session]		Theory: (SAF) ABSL1 & 2 Facility Training Theory: (SAF) a) Microscopy b) Different type of Staining c) Tissue Morphology	Theory: (SAF) Anatomy & Physiology & Different Routes of Administration	Theory: (SAF) Molecular Tools & Techniques		Theory: (SAF) ABSL1 & 2 Facility Training Theory: (SAF) a) Microscopy b) Different type of Staining c) Tissue Morphology	Theory: (SAF) Anatomy & Physiology & Different Routes of Administration	Theory: (SAF) Molecular Tools & Techniques
Day 3	Visit: (TRC) Animal facility visit), & Visit: (RC) Common biology lab facility visit including Zebrafish lab,	Demonstration &/or Hands On: (RC) a) Mice handling & Maintenance. b) Different Routes of Administration & Dissection c) Dissection, Tissue Harvesting & Storing			Visit: (TRC) Animal facility visit), & Visit: (RC) Common biology lab facility visit including Zebrafish lab,	Demonstration &/or Hands On: (RC) a) Mice handling & Maintenance. b) Different Routes of Administration & Dissection c) Dissection, Tissue Harvesting & Storing			Visit: (TRC) Animal facility visit), & Visit: (RC) Common biology lab facility visit including Zebrafish lab,	Demonstration &/or Hands On: (RC) a) Mice handling & Maintenance. b) Different Routes of Administration & Dissection c) Dissection, Tissue Harvesting & Storing		

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Day 4		Theory: (SAF) Histopathology	Demonstration: (RC) Different Instruments in Use & Instrument Operation SOPs Hands On: Histopathology Techniques [Tissue Processing, Embedding & Tissue Sectioning. H & E and LFB			Theory: (SAF) Histopathology	Demonstration: (RC) Different Instruments in Use & Instrument Operation SOPs Hands On: Histopathology Techniques [Tissue Processing, Embedding & Tissue Sectioning. H & E and LFB			Theory: (SAF) Histopathology	Demonstration: (RC) Different Instruments in Use & Instrument Operation SOPs Hands On: Histopathology Techniques [Tissue Processing, Embedding & Tissue Sectioning. H & E and LFB	
Day 5		Hands On: Mice Dissection [Practice Session] IN SAF <hr/> Tea & Snacks (SAF) & Certificate Collection			Demonstration &/or Hands On: IHC			IN SAF <hr/> Tea & Snacks (SAF) & Photograph Session	Demonstration &/or Hands On: IHC			IN SAF <hr/> Tea & Snacks (SAF) & Photograph Session

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Days	(9.30 am)	(10:30am-12:30pm)	(2:00:pm- 4:00 pm)	(4.30pm- 5:30 pm)	(9.30 am)	(10:30am-12:30pm)	(2:00:pm-4:00 pm)	(4.30pm- 5:30 pm)	(9.30 am)	(10:30am-12:30pm)	(2:00 pm- 4:00 pm)	(4.30pm- 5:30 pm)				
Day 6	<div>End</div> <div>-----</div>				Demonstration &/or Hands On: RNA quantitation and gel electrophoresis: & DNA Isolation	Demonstration &/or Hands On: Western blot analysis:	Demonstration &/or Hands On: Western blot analysis:	Demonstration &/or Hands On: Western blot analysis:	Demonstration &/or Hands On: RNA quantitation and gel electrophoresis: & Genotyping	Demonstration &/or Hands On: Western blot analysis:	Demonstration &/or Hands On: Western blot analysis:	Demonstration &/or Hands On: Western blot analysis:				
Day 7					Demonstration &/or Hands On: Western blot analysis:	Demonstration &/or Hands On: Western blot analysis:	Hands On: Mice Dissection [Practice Session] & Certificate Collection		Demonstration &/or Hands On: Western blot analysis:	Demonstration &/or Hands On: Western blot analysis:	Theory: Bio analytical Tools & Technique: An Overview. AH & SDS	Interactive Session				
Day 8					<div>End</div> <div>-----</div>				Demonstration &/or Hands On: Epifluorescence microscopy.	Theory & Demonstration &/or Hands On: cDNA preparation and qRTPCR:						
Day 9									Theory & Demonstration &/or Hands On: Flow Cytometry:				Theory & Demonstration &/or Theoretical Analysis : In vivo Imaging			
Day 10													Hands On: Mice Dissection [Practice Session] & Certificate Collection			



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