



STEREOTAXIC SURGERY IN RODENTS: TECHNIQUES, ETHICS AND RESEARCH APPLICATIONS



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(Mahidol University)



LECTURE (LIMITED TO 30 SEATS)

DATE: 30 JUNE - 1 JULY 2026 TIME: 9.00 AM - 4.30 PM

VENUE: MAHARES CO-WORKING SPACE @ MB



WORKSHOP (LIMITED TO 10 SEATS)

DATE: 2 JULY 2026 TIME: 9.00 AM - 4.30 PM

VENUE: INSTITUTE OF MOLECULAR BIOSCIENCES BUILDING



REGISTRATION FEE

LECTURE ONLY (2 DAYS) 2,000 THB

LECTURE & WORKSHOP (3 DAYS) 5,000 THB

FOR MORE INFORMATION:

MS. KAEWKLAO BANJONG



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STEREOTAXIC SURGERY IN RODENTS: TECHNIQUES, ETHICS AND RESEARCH APPLICATIONS

30 JUNE 2026

DAY1

FOUNDATIONS OF ETHICAL AND TECHNICAL PROCEDURES

9:00 - 9:15	OPENING REMARKS AND WORKSHOP OVERVIEW
9:15 - 10:15	ETHICAL PROCEDURES AND REGULATORY REQUIREMENTS FOR BRAIN SURGERY IN LABORATORY ANIMALS ASST. PROF. DR. SUKONTHAR NGAMPRAJUAN, PHD
10:15 - 10:30	COFFEE BREAK
10:30 - 12:00	ANESTHESIA AND ANALGESIA IN RODENTS: PRINCIPLES AND BEST PRACTICES ASSOC. PROF. DR. PAUL KLOSEN, PHD, HDR
12:00 - 13:00	LUNCH
13:00 - 14:30	INTRODUCTION TO STEREOTAXIC APPARATUS AND BRAIN COORDINATE SYSTEM ASSOC. PROF. DR. PAUL KLOSEN, PHD, HDR
14:30 - 14:45	COFFEE BREAK
14:45 - 16:15	STEP-BY-STEP PROCEDURE FOR STEREOTAXIC SURGERY IN RODENTS (VIDEO DEMONSTRATION) ASSOC. PROF. DR. PAUL KLOSEN, PHD, HDR
14:45 - 16:15	Q&A AND DISCUSSION ASSOC. PROF. DR. PAUL KLOSEN, PHD, HDR

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1 JULY 2026

DAY2

RESEARCH APPLICATIONS OF STEREOTAXIC SURGERY

9:00 - 9:15	INTRODUCTION TO STEREOTAXIC APPLICATIONS IN RESEARCH ASST. PROF. DR. SUKONTHAR NGAMPAMUAN, PHD
9:15 - 10:00	STEREOTAXIC ELECTRODE IMPLANTATION FOR EEG RECORDING PROF. DR. EKSIT KUMARSIT, PHD
10:00 - 10:45	STEREOTAXIC CANNULA IMPLANTATION FOR MICRO DIALYSIS ASSOC. PROF. DR. PAUL KLOSEN, PHD, HDR
10:45 - 11:00	COFFEE BREAK
11:00 - 11:45	STEREOTAXIC IMPLANTATION FOR TELEMETRY RECORDING ADINSTRUMENTS SOUTH ASIA (INDIA) PRIVATE LIMITED
11:45 - 12:30	STEREOTAXIC APPLICATIONS IN OPTOGENETICS HOOLLYWOOD HOLLYWOOD INTERNATIONAL LTD.
12:30 - 13:45	LUNCH
13:45 - 14:30	LARGE-SCALE SINGLE-UNIT RECORDING IN THE EARLY AUDITORY PATHWAY PROF. NICHOLAS A. LESICA, PH.D.
14:30 - 14:45	COFFEE BREAK
14:45 - 15:30	STEREOTAXIC CANNULA IMPLANTATION FOR DRUG INFUSION ASSOC. PROF. DR. NARAWUT PAKAPROT, MD, PHD
15:30 - 16:15	PANEL DISCUSSION: IMPLEMENTING THE 3RS IN NEUROSURGICAL ANIMAL RESEARCH ASSOC. PROF. DR. PAUL KLOSEN, PHD, HDR ASST. PROF. DR. SUKONTHAR NGAMPAMUAN, PHD
16:15 - 16:30	CLOSING LECTURE SESSION

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STEREOTAXIC SURGERY IN RODENTS: TECHNIQUES, ETHICS AND RESEARCH APPLICATIONS

2 JULY 2026

DAY3

HANDS-ON PRACTICAL TRAINING

9:00 - 9:30

SAFETY BRIEFING AND SURGICAL PREPARATION
RODENT ANESTHESIA AND ANALGESIA TECHNIQUES

09:30 - 11:30

STEREOTAXIC SURGERY PRACTICE (BRAIN LOCALIZATION AND INJECTION)
PERFUSION TECHNIQUES

11:30 - 12:30

STEREOTAXIC SURGERY PRACTICE (BRAIN LOCALIZATION AND INJECTION)

12:30 - 13:30

LUNCH

13:30 - 14:30

STEREOTAXIC SURGERY PRACTICE (BRAIN LOCALIZATION AND INJECTION)

14:30 - 15:30

STEREOTAXIC SURGERY PRACTICE (BRAIN LOCALIZATION AND INJECTION)
BRAIN DISSECTION AND TISSUE PREPARATION

15:30 - 15:45

COFFEE BREAK

15:45 - 16:30

DISCUSSION, TROUBLESHOOTING, AND CERTIFICATE PRESENTATION

SPEAKER: ASSOC. PROF. DR. PAUL KLOSEN, PHD, HDR

HANDS-ON INSTRUCTOR:

1. ASSOC. PROF. DR. PAUL KLOSEN, PHD, HDR
2. ASST. PROF. DR. SUKONTHAR NGAMPAMUAN, PHD
3. MS. NAMPHUENG THONGTHA
4. DR. DUNGDOL NARASIRILRK, D.V.M.

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