



STEREOTAXIC SURGERY IN RODENTS: TECHNIQUES, ETHICS AND RESEARCH APPLICATIONS



Associate Professor
Paul Klosen, Ph.D.
(University of Strasbourg)



Professor
Ekkasit Kumarnsit, Ph.D.
(Prince of Songkla University)



Associate Professor
Yoshifumi OKOCHI, Ph.D.
(University of Osaka)



Associate Professor
Narawut Pakaprot, M.D. Ph.D.
(Mahidol University)



Professor
Nicholas A. Lesica, Ph.D.
(University College London)



Assistant Professor
Sukonthar Ngampramuan, Ph.D.
(Mahidol University)



LECTURE (LIMITED TO 30 SEATS)

DATE: 30 JUNE - 1 JULY 2026

TIME: 9.00 AM - 4.30 PM

VENUE: MASHARES 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



080 9814948



KAEWKLAO.BAN@MAHIDOL.AC.TH

GET IN
TOUCH NOW!





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. SUKONTHAR NGAMPAMUAN, PH.D.
10:15 - 10:30	COFFEE BREAK
10:30 - 12:00	ANESTHESIA AND ANALGESIA IN RODENTS: PRINCIPLES AND BEST PRACTICES ASSOC. PROF. PAUL KLOSEN, PH.D.
12:00 - 13:00	LUNCH
13:00 - 14:30	INTRODUCTION TO STEREOTAXIC APPARATUS AND BRAIN COORDINATE SYSTEM ASSOC. PROF. PAUL KLOSEN, PH.D.
14:30 - 14:45	COFFEE BREAK
14:45 - 16:15	STEP-BY-STEP PROCEDURE FOR STEREOTAXIC SURGERY IN RODENTS (VIDEO DEMONSTRATION) ASSOC. PROF. PAUL KLOSEN, PH.D.
16:15 - 16:30	Q&A AND DISCUSSION ASSOC. PROF. DR. PAUL KLOSEN, PH.D.

FOR MORE INFORMATION:

MS. KAEWKLAO BANJONG



080 9814948



KAEWKLAO.BAN@MAHIDOL.AC.TH

GET IN
TOUCH NOW!





STEREOTAXIC SURGERY IN RODENTS: TECHNIQUES, ETHICS AND RESEARCH APPLICATIONS

1 JULY 2026

DAY2

RESEARCH APPLICATIONS OF STEREOTAXIC SURGERY

9:00 - 9:15	INTRODUCTION TO STEREOTAXIC APPLICATIONS IN RESEARCH ASST. PROF. SUKONTHAR NGAMPAMUAN, PH.D.
9:15 - 10:00	STEREOTAXIC ELECTRODE IMPLANTATION FOR EEG RECORDING PROF. EKSIT KUMARSIT, PH.D.
10:00 - 10:45	STEREOTAXIC CANNULA IMPLANTATION FOR MICRO DIALYSIS ASSOC. PROF. PAUL KLOSEN, PH.D.
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 HOLLYWOOD INTERNATIONAL LTD.
12:30 - 13:30	LUNCH
13:30- 14:15	LARGE-SCALE SINGLE-UNIT RECORDING IN THE EARLY AUDITORY PATHWAY PROF. NICHOLAS A. LESICA, PH.D. (ONLINE SESSION)
14:15 - 14:30	COFFEE BREAK
14:30 - 15:15	STEREOTAXIC AAV DELIVERY TO THE MOUSE BRAIN: TECHNIQUES, ETHICS, AND APPLICATIONS ASSOC. PROF. YOSHIFUMI OKOCHI, PH.D. (ONLINE SESSION)
15:15 - 16:00	STEREOTAXIC CANNULA IMPLANTATION FOR DRUG INFUSION ASSOC. PROF. NARAWUT PAKAPROT, MD, PHD
16:00 - 16:30	PANEL DISCUSSION: IMPLEMENTING THE 3RS IN NEUROSURGICAL ANIMAL RESEARCH ASSOC. PROF. PAUL KLOSEN, PH.D. & ASST. PROF. SUKONTHAR NGAMPAMUAN, PH.D.
16:30 - 16:45	CLOSING LECTURE SESSION

FOR MORE INFORMATION:

MS. KAEWKLAO BANJONG



080 9814948



KAEWKLAO.BAN@MAHIDOL.AC.TH

GET IN
TOUCH NOW!



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. PAUL KLOSEN, PH.D.

HANDS-ON INSTRUCTOR:

1. ASSOC. PROF. PAUL KLOSEN, PH.D.
2. ASST. PROF. SUKONTAR NGAMPAMUAN, PH.D.
3. MS. NAMPHUENG THONGTHA
4. DUNGDOL NARASIRILRK, D.V.M.

FOR MORE INFORMATION:

MS. KAEWKLAO BANJONG

 080 9814948

 KAEWKLAO.BAN@MAHIDOL.AC.TH

GET IN
TOUCH NOW!

