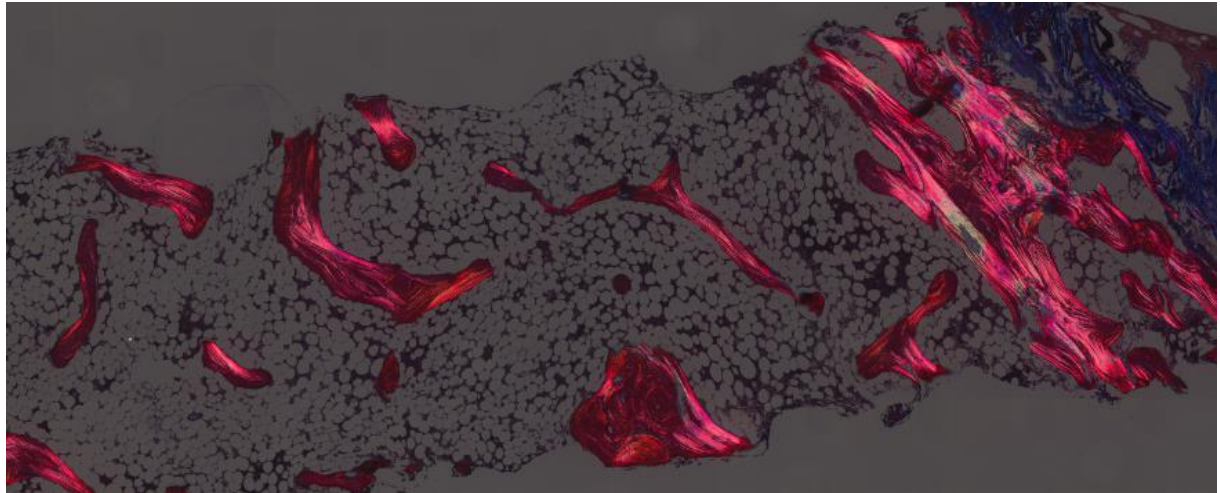


# 1<sup>st</sup> International hands-on course on bone Histology and histomorphometry

ISBM & EUROD

October 6-8, 2025



## PROGRAM

### Location:

University of Southern Denmark

Toften, Fioniavej 34, Odense M

Denmark

Website: [Events – MBH Lab](#)

## Organizing committee

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Monday, October 6

08:00 - 08:45

**Lecture 1: Introduction – Why bone histomorphometry and how to take a biopsy**

*PROF. THOMAS LEVIN ANDERSEN, ASSOCIATE PROF. NATHALIE BRAVENBOER & MD RENATE DE JONGH*

08:45 - 09:30

**Lecture 2: Fixation, decalcification & Micro-CT**

*PROF. THOMAS LEVIN ANDERSEN*

*PROF. JESPER SKOVHUS THOMSEN*

09:30 – 10:00

**BREAK**

10:00 – 12:00

**Group A**

**Workshop 1A:**

**How to take and handle bone biopsies**

*Focus on how to 1) take a biopsy and cut 2) plastic, 3) cryo and 4) paraffin sections*

*KAJA LAURSEN, SIGNE ANDERSEN, MALENE H. NIELSEN, RENATE DE JONGH*

**Group B**

**Lecture 3B:**

**How to perform histomorphometry**

*Focus on the methodology, stereology, parameters and nomenclature*

*PROF. THOMAS LEVIN ANDERSEN*

12:00 – 13:00

**LUNCH (SANDWICHES WILL BE SERVED)**

13:00 – 15:00

**Group B**

**Workshop 1B:**

**How to take and handle bone biopsies**

*Hands-on how to 1) take a biopsy and cut 2) plastic, 3) cryo and 4) paraffin sections*

*KAJA LAURSEN, SIGNE ANDERSEN, MALENE H. NIELSEN, RENATE DE JONGH*

**Group A**

**Lecture 3A:**

**How to perform histomorphometry**

*Focus on the methodology, stereology, parameters and nomenclature*

*PROF. THOMAS LEVIN ANDERSEN*

15:00 – 15:15

**BREAK**

15:00 – 16:00

**Lecture 4: Clinical histomorphometry (Case based)**

*PROF. PROF. NATHALIE BRAVENBOER*

18:00

**DINNER AT “STORMS PAKHUS” (AT OWN EXPENSE)**

8:00 – 12:00

**Group A**

**Workshop 2A:**

**How to stain plastic sections**

*Hands-on how to perform 1) goldner trichrome Staining, 2) TRAcP activity staining and 3) Immunostaining for TRAcP*

**KAJA LAURSEN, SIGNE ANDERSEN,  
MALENE H. NIELSEN, RENATE DE JONGH**

**Group B**

**Workshop 3B:**

**Exercise on how to perform histomorphometry (part 1)**

*Hands-on how to analyze the different parameters in scanned sections (download scans and software before)*

**PROF. THOMAS LEVIN ANDERSEN**

**Lecture 5B:**

**Clinical consequences**

*Focus on the clinical consequences of the clinical histomorphometry and pathology*

**MD DITTE HANSEN**

**MD RENATE DE JONGH**

**Lecture 6B:**

**Future opportunities using advanced molecular histology**

*Focus on how the biopsies can be used for advanced molecular histology, like spatially resolved transcriptomics*

**PROF. THOMAS LEVIN ANDERSEN**

12:00 – 13:00

LUNCH (SANDWICHES WILL BE SERVED)

13:00 – 17:00

**Group B**

**Workshop 2B:**

**How to stain plastic sections**

*Hands-on how to perform 1) goldner trichrome Staining, 2) TRAcP activity staining and 3) Immunostaining for TRAcP*

**KAJA LAURSEN, SIGNE ANDERSEN,  
MALENE H. NIELSEN, RENATE DE JONGH**

**Group A**

**Workshop 3A:**

**Exercise on how to perform histomorphometry (part 1)**

*Hands-on how to analyse the different parameters in scanned sections (download scans and software before)*

**PROF. THOMAS LEVIN ANDERSEN**

**Lecture 5A:**

**Clinical consequences**

*Focus on the clinical consequences of the clinical histomorphometry and pathology*

**MD DITTE HANSEN**

**MD RENATE DE JONGH**

**Lecture 6A:**

**Future opportunities using advanced molecular histology**

*Focus on how the biopsies can be used for advanced molecular histology, like spatially resolved transcriptomics*

**PROF. THOMAS LEVIN ANDERSEN**

18:00

DINNER AT ? (AT OWN EXPENSE)

Wednesday, October 8

8:00 – 12:00

**Group A**

**Workshop 4A:**

**How to stain cryo & paraffin sections**

*Hands-on how to perform 1) von Kassa Staining, 2) Masson trichrome staining and 3) Immunostaining for TRAcP*

**KAJA LAURSEN, SIGNE ANDERSEN,  
MALENE H. NIELSEN, RENATE DE JONGH**

**Group B**

**Workshop 5B:**

**Exercise on how to perform histomorphometry (part 2)**

*Hands-on how to analyse the different parameters in scanned sections  
(download scans and software before)*

**PROF. THOMAS LEVIN ANDERSEN**

12:00 – 12:30

**LUNCH (SANDWICHES WILL BE SERVED)**

12:30 – 16:30

**Group B**

**Workshop 4B:**

**How to stain cryo & paraffin sections**

*Hands-on how to perform 1) von Kassa Staining, 2) Masson trichrome staining and 3) Immunostaining for TRAcP*

**KAJA LAURSEN, SIGNE ANDERSEN,  
MALENE H. NIELSEN, RENATE DE JONGH**

**Group A**

**Workshop 5A:**

**Exercise on how to perform histomorphometry (part 2)**

*Hands-on how to analyse the different parameters in scanned sections  
(download scans and software before)*

**PROF. THOMAS LEVIN ANDERSEN**

16:30 – 17:00

**Lecture 7: EVALUATION & FINAL REMARKS FOR MAIN COURSE**

**PROF. THOMAS LEVIN ANDERSEN**

**ASSOCIATE PROF. NATHALIE BRAVENBOER**

18:00

**DINNER AT ? (AT OWN EXPENSE)**

Thursday, October 9 (*extra volunteer course on advanced bone histology*)

08:00 – 10:00

**Lecture 8: Lecture and exercise on multiplex immunostaining**

**PROF. THOMAS LEVIN ANDERSEN**

10:00 – 10:30

**BREAK**

10:30 – 12:00

**Lecture 9: Multiplex in situ hybridization**

**PROF. THOMAS LEVIN ANDERSEN**

12:00 – 12:30

**LUNCH (AT OWN EXPENSE)**