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**INGURUMEN KUTSADURA ETA TOXIKOLOGIA
CONTAMINACION Y TOXICOLOGIA AMBIENTALES
ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY
GRADUONDOKO MASTERRA / MASTER DE POSTGRADO UPV/EHU**

Ref. MO2006-00749 ⁽¹⁾



**European Master of Science in
Marine Environment & Resources**

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JOINT EUROPEAN POSTGRADUATE STUDIES

Ref. MO2006-00744 ⁽²⁾

10TH INTERNATIONAL POSGRADUATE COURSE

HISTOLOGY AND HISTOPATHOLOGY OF AQUATIC ANIMALS *

March 22, April 4, 18-22 2016, Plentzia Marine Station – Univ. Basque Country (PiE-UPV/EHU)

Organized by: CTA and MER Masters (CTA & MER Doctorate Programs, UPV/EHU)
Dept Zoology and Cell Biology, Plentzia Marine Station, Univ Basque Country, Bilbao

Teaching Staff:

Dr Stephen Feist (CEFAS, Weymouth, UK)
Dr. Antonio Villalba (Xunta Galicia, Galicia)
Dr Miren P. Cajaraville (PiE-UPV/EHU)
Dr. Beñat Zaldibar ((PiE-UPV/EHU)
Dr. Urtzi Izaguirre ((PiE-UPV/EHU)
Dr. Larraitz Garmendia (PiE-UPV/EHU)
Dr Manu Soto (PiE-UPV/EHU) **Coordinator**
Dr Ionan Marigómez (PiE-UPV/EHU) **Coordinator**



Additional information:

MER & CTA Secretariat
Plentzia Marine Station (PiE-UPV/EHU)
Univ Basque Country, 48620 Plentzia, -Basque Country
TIn: 34 946018450
e-mailsonia.monreal@ehu.es

www.ehu.es/CTA

www.merconsortium.eu

* UPV/EHU Complementary Course (3 ECTS), and CTA and MER MSc Course (4 ECTS)

Supporting Institutions:

- University of the Basque Country (Vice-rectorate Graduate & Postgraduate Studies)

(1) Quality Award by Spanish Ministry of Education and Science (2005-2012)

(2) Erasmus Mundus Master Course 2012-2018

(3) Quality Award by Spanish Ministry of Education and Science (2008-2012)

PROGRAMME

APRIL 18th MONDAY: INTRODUCTORY REMARKS AND MOLLUSC HISTOLOGY

- 09:30-10:20; "Introduction to comparative histology of aquatic animals." M. Soto
10:30-11:20; "Introduction to comparative histology of aquatic animals." (cont.) M Soto

11:40-12:30; "Introduction to comparative histology of aquatic animals." (cont.) M Soto
12:40-13:30; "Normal histology of molluscs." I. Marigómez

15:00-16:00; "Normal histology of molluscs." (cont.) I Marigómez
16:20-18:00; "Practical session 1: Microscopical observation of molluscan tissues." M Soto & U Izagirre

APRIL 19th TUESDAY: MOLLUSC HISTOPATHOLOGY

- 09:30-10:20; "Biopathology and histopathology: basic concepts." I Marigómez
10:30-11:20; "General histopathology of molluscs." A. Villalba

11:40-12:30; "General histopathology of molluscs." (cont.) A. Villalba
12:40-13:30; "General histopathology of molluscs." (cont.) I. Villalba

15:00-16:00; "Toxicopathology in molluscs." MP Cajaraville
16:20-18:00; "Practical session 2: Microscopical observations on general molluscan histopathology."
A. Villalba & MP Cajaraville

APRIL 20th WEDNESDAY: MOLLUSC HISTOPATHOLOGY & FISH HISTOLOGY

- 09:30-10:20; "Neoplastic lesions in molluscs" A. Villalba
10:30-11:20; "Natural variability and temporal trends in histopathological lesions in molluscs." I Marigómez

11:40-12:30; "General normal histology of fishes." M Soto
12:40-13:30; "General normal histology of fishes." (cont.) M Soto

15:00-16:00; "Practical session 3: Microscopical observations on general molluscan histopathology (cont.) and identification of neoplastic lesions." A. Villalba
16:20-18:00; "Practical session 4: Microscopical observation of fish tissues." M Soto & S Feist

APRIL 21th THURSDAY: FISH HISTOPATHOLOGY

- 09:30-10:20; "Introduction of general histopathology in fish." S Feist
10:30-11:20; "Introduction of general histopathology in fish." (cont.) S Feist

11:40-12:30; "Mechanisms of chemical carcinogenesis in fish liver." MP Cajaraville
12:40-13:30; "Carcinogenic lesions in fish." S Feist

15:00-16:00; "Quantitative fish and shellfish histopathology." I Marigómez
16:20-18:00; "Practical session 5: Microscopical observations on fish histopathology." S Feist & M Soto

APRIL 22th FRIDAY: MOLLUSC AND FISH HISTOPATHOLOGY IN ECOSYSTEM HEALTH ASSESSMENT

- 09:30-10:20; "Fish and bivalve pathology in relation to pollution: quality assurance." S Feist
10:30-11:20; "Histopathology in marine ecosystem health assessment: Mussel Watch and Fish Disease Monitoring programmes." I Marigómez
11:40-13:30; "Practical session 6: Navigating through the web searching databases and images on histopathology of aquatic animals." M Soto

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