



**Reconstructive Microsurgery**  
*European School*

# International Master's Degree in Reconstructive Microsurgery

2-Year Educational Programme (78 ECTS)

## International Faculty:

Institut Gustave Roussy, Paris - France  
Gent University Hospital, Gent - Belgium  
European Institute of Oncology, Milan - Italy  
Helsinki University Hospital, Helsinki - Finland  
Queen Victoria Hospital, East Grinstead - UK  
Tokyo University Hospital, Tokyo - Japan  
Hospital de la Santa Creu i Sant Pau, Barcelona - Spain

**UAB**  
Universitat Autònoma  
de Barcelona

 **Fundació Doctor Robert  
UAB**



# Presentation

Microsurgery has become a standard part of all tissue transfer techniques and is an essential component in the most advanced reconstructive procedures, such as vascular anastomosis, lymphatic microsuture and neurorrhaphies. The exponential growth in the use of microsurgical techniques, over the last ten years, especially in plastic surgery, clearly indicates that a skilled microsurgical team is indispensable in all major hospitals.

This International Master in Reconstructive Microsurgery offers comprehensive, specific training in fields such as breast surgery, head and neck reconstruction, limb salvage, genitourinary and supermicrosurgery.

The programme includes specific training modules that cover both theoretical and practical aspects. The acquisition of high level skills is guaranteed to all trainees. This master's degree is officially recognised by the Universitat Autònoma de Barcelona. It is organized in association with a faculty of internationally renowned experts.

It is addressed to plastic surgeons, surgical specialists without experience in microsurgery, and experienced microsurgeons who want to widen their range of competences and learn new skills.

The training programme **will be individually tailored to the needs of each student**. A high level of performance is expected, and quality instruction is guaranteed.

The training centres are a state-of-the-art learning facility, designed and commissioned to meet the need of the modern healthcare professional and provide excellence as a facility for advanced surgical training.

Clinical immersion programme (module 10) is designed for surgeons who wish to increase their knowledge of a particular procedure in a specialised area such as head and neck, breast, limb and genitourinary microsurgical reconstruction in a more intimate environment. The majority of time is spent in the operating theatre observing and working with an expert in the chosen specialist area. New techniques and procedures are demonstrated and students are coached through complex dissections on a one-to-one basis.

An on-line campus has been established, articles, videos, formative evaluation tests, study cases, cross-fire debates are presented. It is designed to promote debate amongst a faculty of world renowned experts and the students discussing key subjects within their surgical speciality.

Master updated meeting will be held every 4 years to discuss complex and challenging clinical cases and new developments. Close interaction between trainees and faculty will be encouraged. The aim of this updating meeting is creating a wider clinical and scientific network that continues to engage in excellence in education and training in institutions throughout Europe.





## Programme contents

### MODULE 1

**Masterclass.** Essential concepts in microsurgery.  
• Paris- France

### MODULE 2

**Workshop.** Microvascular surgery training using a small animal model (rats).  
• Barcelona- Spain

### MODULE 3

**Workshop.** Flap dissection in fresh cadaver.  
• Paris-France

### MODULE 4

**Workshop.** Dissection techniques of perforator flaps and supermicrosurgery using a live animal model (pig).  
• Paris- France

### MODULE 5

**Clinical training** in head and neck microsurgical reconstruction.  
• Barcelona- Spain

### MODULE 6

**Clinical training** in breast microsurgical reconstruction.  
• Barcelona- Spain

### MODULE 7

**Clinical training** in microsurgical reconstruction of the limb.  
• Barcelona- Spain

### MODULE 8

**Clinical training** in genitourinary reconstruction.  
• Barcelona- Spain

### MODULE 9

**Clinical training** in supermicrosurgery.  
• Barcelona- Spain

### MODULE 10

**Clinical immersion programme.**

### ON-LINE CAMPUS

E-learning platform in microsurgery.

### ON-SITE EVALUATION

• Barcelona- Spain

## Learning outcomes

- Provide an environment in which a qualified and motivated student can gain advanced training in reconstructive microsurgery.
- Master and apply suture techniques in microvascular surgery and neurography.
- Analyse and determine the most suitable microsurgical technique for a particular case.
- Preoperatively plan all types of microsurgical flaps: myocutaneous flaps, muscular flaps, bone flaps, axial-cutaneous flaps and perforator flaps.
- Perform microsurgical techniques in all major fields: breast reconstruction, head and neck surgery, limb salvage, lymphedema surgery, genitourinary reconstruction and supermicrosurgery.
- Carry out postoperative follow up of microsurgical flaps: monitoring techniques.
- Approach and perform microsurgical flap salvage techniques.
- Resolve complications and sequelae of reconstructive procedures.
- Plan and perform limb replantation procedures.
- Learn and implement supermicrosurgery techniques.
- Analyze needs and indications for transplantation.

## Educational coordinators

### ■ **Cristina Garusi MD**

European Institute of Oncology, Milan - Italy

### ■ **Frederic Kolb MD, PhD**

Institut Gustave Roussy, Paris - France

### ■ **Isao Koshima MD, PhD**

Tokyo University Hospital, Tokyo - Japan

### ■ **Gemma Pons MD**

Hospital de Sant Pau, Barcelona - Spain

### ■ **T.C. Teo MD(Hons), FRCS(Ed), FRCS(Plast)**

Queen Victoria Hospital, East Grinstead - UK

### ■ **Sinikka Suominen MD, PhD**

Helsinki University Hospital, Helsinki - Finland

### ■ **Koenraad Van Landuyt MD, PhD**

Gent University Hospital, Gent - Belgium

## Who is it for

This Master is designed for plastic surgeons and other surgical specialists for whom microsurgery has become an essential component of their practice.

## Educational programme director

### ■ **Jaume Masia MD, PhD**

Hospital de Sant Pau (Universitat Autònoma de Barcelona).  
Barcelona, Spain.



# Education coordinators CV



Cristina Garusi, MD

**CURRENT APPOINTMENT:**

Senior Vice Direttore Chirurgia Plastica, Istituto Europeo Oncologico, Milano.

**MEDICAL EDUCATION:**

• Università degli Studi di Verona.

**TRAINING IN PLASTIC SURGERY**

• Università di Padova.  
• Università di Milano.  
• Canniesburn Hospital Glasgow.  
• Istituto Europeo di Oncologia.

**EXPERTISE FIELD**

• Breast reconstructive surgery.  
• Supermicrosurgery (lymphedema).



Frederik Kolb MD, PhD

**CURRENT APPOINTMENT**

Chief of the Plastic Department of the Institut Gustave Roussy, Villejuif, France.

**MEDICAL EDUCATION**

• Medical School Bichat, Paris VII.

**TRAINING IN PLASTIC SURGERY**

• Institut Gustave Roussy.

**EXPERTISE FIELD**

• Head and neck reconstruction.  
• Skull base surgery.  
• Breast oncology and reconstruction.  
• Limb reconstruction.  
• Oncologic dermatology.  
• Bioengineering.



Isao Koshima MD, PhD

**CURRENT APPOINTMENT**

Professor and Chief of Plastic and Reconstructive Surgery, Graduate School of Medicine, University of Tokyo.

**MEDICAL EDUCATION**

• Tottori University School of Medicine.

**TRAINING IN PLASTIC SURGERY**

• Tokyo Women's Medical School.  
• Tokyo University.  
• Tsukuba University.  
• Kawasaki Medical School.  
• Harvard Medical School.  
• Okayama University Medical School.  
• University of Tokyo.

**EXPERTISE FIELD**

• Free tissue transfers with supermicrosurgery (lymphedema).  
• Reconstruction for extremities.  
• Head and neck reconstruction.  
• Hand reconstruction.  
• Penis and urethral reconstruction.  
• Breast reconstruction.



Jaume Masià MD, PhD

**CURRENT APPOINTMENT**

Professor and Chief, Department of Plastic Surgery, Hospital de la Santa Creu i Sant Pau (Universitat Autònoma de Barcelona). Barcelona, Spain.  
Chief of the Breast Reconstructive and Lymphedema Unit. Clinica Planas, Barcelona.

**MEDICAL EDUCATION**

• Universitat de Barcelona.

**TRAINING IN PLASTIC SURGERY**

• Radcliffe Infirmary, Oxford University, UK.  
• Hospital de la Santa Creu i Sant Pau, Barcelona, Spain.  
• Hospital de la Vall d'Hebrón, Barcelona, Spain.  
• Institut Kaplan, Barcelona, Spain.  
• Canniesburn Hospital, Glasgow, UK.  
• Queen Victoria Hospital, East Grinstead, UK.

**EXPERTISE FIELD**

• Breast reconstruction.  
• Supermicrosurgery (lymphedema).  
• Genital reconstruction.  
• Head and Neck reconstruction.



Gemma Pons MD

**CURRENT APPOINTMENT**

Executive Chief of Microsurgery Unit. Department of Plastic and Reconstructive Surgery, Hospital de la Santa Creu i Sant Pau (Universitat Autònoma de Barcelona), Barcelona, Spain.

**MEDICAL EDUCATION**

• Universitat de Barcelona.

**TRAINING IN PLASTIC SURGERY**

• Hospital de la Santa Creu i Sant Pau, Barcelona, Spain.  
• Hospital de la Vall d'Hebrón, Barcelona, Spain.  
• Hospital Central de Asturias, Oviedo, Spain.  
• Universitair Ziekenhuis, Ghent, Belgium.  
• Charleston Memorial Hospital, Charleston, US.

**EXPERTISE FIELD**

• Breast reconstruction.  
• Supermicrosurgery (lymphedema).



T.C. Teo MD (Hons), FRCS (Ed), FRCS (Plast)

**CURRENT APPOINTMENT**

Plastic and Reconstructive Surgeon. Queen Victoria Hospital. East Grinstead, United Kingdom.

**MEDICAL EDUCATION**

• Aberdeen University, Scotland.

**TRAINING IN PLASTIC SURGERY**

• Harvard University, Boston, USA.  
• Chang Gung Memorial Hospital, Taipei, Taiwan.  
• Royal North Shore Hospital, Sydney, Australia.  
• Bradford University Hospital  
• Aberdeen Teaching Hospitals.  
• Queen Victoria Hospital, East Grinstead, UK.

**EXPERTISE FIELD**

• Limb reconstruction.  
• Supermicrosurgery.  
• Hand surgery.



Sinikka Suominen MD, PhD

**CURRENT APPOINTMENT**

Vice- Director Department of Plastic Surgery and Breast Surgery Unit. Helsinki University Central Hospital, Helsinki.

**MEDICAL EDUCATION**

• Helsinki University.

**TRAINING IN PLASTIC SURGERY**

• Helsinki University Central Hospital.  
• Chang-Gung Memorial Hospital, Taipei, Taiwan.

**EXPERTISE FIELD**

• Breast reconstruction.  
• Head and Neck reconstruction.  
• Genital reconstruction.  
• Supermicrosurgery (lymphedema).



Koenraad Van Landuyt MD, PhD

**CURRENT APPOINTMENT**

Associate professor at the Department of Plastic and Reconstructive Surgery. Gent University Hospital, Gent, Belgium.

**TRAINING IN PLASTIC SURGERY**

• Villain XIV Hospital, Maasmechelen&Sint-Jacobus.  
• Hospital, Tongerem. Belgium.  
• Gent University Hospital.  
• H.Hart Hospital, Oostende, Belgium.  
• Dijkzigt Hospital, Rotterdam, The Netherlands.

• Med. Hochschule Hannover, Germany.

**EXPERTISE FIELD**

• Breast reconstruction.  
• Pediatric surgery.  
• Lower limb reconstruction.  
• Supermicrosurgery (lymphedema).



# Master's degree

Candidates who successfully complete the full course will be awarded a Master's Degree recognised by the Universitat Autònoma de Barcelona. This degree is a 78 ECTS Master (ECTS: European Credits Transfer System) (1ECTS = 25 hours in student's work). To be awarded this Master's Degree, trainees must complete all the modules, pass the practical assessment and present a clinical practice report.

To obtain a Postgraduate Diploma in Reconstructive Microsurgery (42 ECTS), trainees must study M1 + M2 + M3 + M4 + M9 modules, plus M5 or M6 or M7 or M8.

Trainees who complete a single module will receive a Certificate.

|                                                          |         |                                                  |
|----------------------------------------------------------|---------|--------------------------------------------------|
| Master's Degree in Reconstructive Microsurgery           | 78 ECTS | M1 + M2 + M3 + M4 + M5 + M6 + M7 + M8 + M9 + M10 |
| Diploma in Head & Neck Reconstructive Microsurgery       | 42 ECTS | M1 + M2 + M3 + M4 + <b>M5</b> + M9               |
| Diploma in Breast Reconstructive Microsurgery            | 42 ECTS | M1 + M2 + M3 + M4 + <b>M6</b> + M9               |
| Diploma in Reconstructive Microsurgery of the Lower Limb | 42 ECTS | M1 + M2 + M3 + M4 + <b>M7</b> + M9               |
| Diploma in Genitourinary Reconstructive Microsurgery     | 42 ECTS | M1 + M2 + M3 + M4 + <b>M8</b> + M9               |



## Methodology

The face to face part of this Master's degree is given in nine modules, each consisting of five-day training courses held throughout the first year. The specific clinical immersion programme is held in set hospitals. However, it can be undertaken at the participant's own centre, and assessed by the faculty member directing the student educational itinerary. It is mandatory to carry out a clinical or experimental research project. This will facilitate participation in research projects at several hospitals.

Emphasis will be given to practical skills in microsurgical techniques, but will include diagnosis, therapeutic options, decision-making concerning techniques, and recognition and management of risks and complications.

Our educational programme delivers comprehensive professional development opportunities for every level of surgical experience. It puts world class training directly into the hands of those who strive for excellence.



# Programme teaching plan



## **MODULE M1. Masterclass: Essential concepts in microsurgery.**

Theoretical introduction to the basic concepts of microsurgery.

- History of microsurgery.
- Microscope and microsurgical instruments.
- Selection of suture material for microsurgical procedures.
- Basic skills in microsurgery.
- Advanced skills in microsurgery.
- Preoperative microsurgical planning.
- Microsurgical flap monitoring.
- Selection of right flap.
- Microsurgical flap salvage.
- Refinements in microsurgical reconstruction.

## **MODULE M2. Workshop: Microvascular surgery training using a small animal model (rats).**

Intensive training course on basic microsurgical skills using a small animal model (rat).

- Basic management of experimental animal, microscope and instrumentation.
- Microsurgical suture practice on surgical gloves.
- Epineural and perineural suture of the sciatic nerve.
- End-to-end suture of the carotid artery and femoral artery.
- End-to-end suture of the jugular vein and femoral vein.
- Aorto-iliac end-to-end suture.
- End-to-side suture between femoral artery and vein.
- Jugular vein graft to carotid artery.
- "In situ" groin flap.
- Distant groin flap to the neck.

**Lab Training Coordinator:** Dr. Susana López

## **MODULE M3. Workshop: Flap dissection in fresh cadaver.**

Flap dissection training using a fresh cadaver model.

### **Head and neck:**

- Submental flap.
- Temporo-parietal flap.
- Supraclavicular flap.

### **Upper limb and shoulder:**

- Lateral arm flap.
- Radial forearm flap.

### **Lower limb and pelvis:**

- Inferior gluteal artery perforator flap (IGAP).
- Superior gluteal artery perforator flap (SGAP).
- Thigh : anterolateral thigh flap (ALTF), medial thigh flap and gracilis flap.
- Internal saphenous perforator flap.
- Osteocutaneous peroneal artery perforator flap.
- Propeller flaps based on peroneal and tibial perforators
- Medial plantar flap.

### **Trunk:**

- Internal mammary fascio-cutaneous flaps.
- Intercostal flaps.
- Scapulo-dorsal flaps: latissimus dorsi, thoracodorsal artery perforator flap (TDAP), scapular flap, parascapular flap and chimeric flaps.
- Internal Iliac crest : Mc Gregor, superficial circumflex inguinal perforator flap (SCIP), iliac crest flap.
- Abdominal wall flaps: musculo-cutaneous rectus abdominis flap, deep inferior epigastric perforator flap (DIEP) and Taylor, superficial inferior epigastric artery flap (SIEA).



**MODULE M4. Workshop using a live animal model (pig): dissection techniques of perforator flaps and supermicrosurgery.**

Intensive course on dissection of perforator flaps in live animals (pig) and basic supermicrosurgical skills training.

- Perforator flap anatomy.
- Preoperative planning of perforator flaps.
- Dissection technique of perforator flaps.
- Fundamentals of microsurgical techniques.
- Head and Neck Reconstruction with Microsurgical Flaps.
- Perforator Flaps in Breast Reconstruction.
- Perforator Flaps in Limb reconstruction.
- Perforator Flaps in Trunk Reconstruction.
- “Hands on” Dissection Session:
  - Gluteal and dorsal perforator flaps.
  - Free style perforator flaps.
  - Transferring the flaps to the recipient vessels .
  - Super microsurgical flaps.
  - Lymphatic channel dissection.
  - Lymph node transfer.

**MODULE M5. Clinical training in head and neck microsurgical reconstruction.**

Head and neck microsurgical reconstruction procedures will be performed and students will attend in small groups. The programme will include live webcast surgery and students interactive participation will be encouraged.

- Oncological criteria in head and neck tumors.
- Reconstructive alternatives in head and neck surgery: form, function and aesthetics.
- Evaluation and indications for pedicled flap versus free flap.
- Selection of right flap and receptor vessels.
- Anterolateral thigh perforator flap (ALTF).
- Thoracodorsal artery perforator flap (TAP).
- Deep inferior epigastric perforator flap (DIEP) with Taylor extension.
- Free fibula flap and free osteocutaneous peroneal flap for bone reconstruction.
- Deep circumflex iliac artery perforator flap with iliac crest for bone reconstruction.
- Radial forearm flap.
- Microsurgery in facial palsy.
- Facial reanimation.







### **MODULE M6. Clinical training in breast microsurgical reconstruction.**

Small groups of students will attend microsurgical breast reconstruction procedures. Live webcast surgery will also be shown and students' interactive participation will be encouraged.

- Oncological management in breast tumors.
- Reconstructive planning in breast tumors.
- Breast reconstruction with implant vs autologous tissue reconstruction.
- Immediate and delayed reconstruction.
- Oncoplastic breast surgery: glandular and perforator flap techniques.
- Breast reconstruction:
  - DIEP flap.
  - SIEA flap.
  - TAP flap.
  - TUG miocutaneous flap.
  - SGAP flap.
  - IGAP flap.
  - fat grafting.
  - transverse myocutaneous gracilis flap (TMG).
- Partial breast reconstruction: oncoplastic and perforator flap techniques.

### **MODULE M7. Clinical training in microsurgical reconstruction of the limb.**

Small groups of students will have the opportunity to observe live microsurgical reconstruction of the limb. Live webcast surgery will be shown and interactive participation will be facilitated.

- Oncological management of limb tumors.
- Reconstructive alternatives in lower limb surgery: form, function and aesthetics.
- Reconstruction following high energy lower limb trauma.
- Reconstructive approaches in chronic osteomyelitis of the lower limb.
- Reconstruction of lower limb defects:
  - latissimus dorsi muscle flap.
  - ALT flap.
  - with TAP flap.
  - radial forearm flap.
  - osteocutaneous fibular flap.
  - SCIP flap.
  - propeller flaps.
- Microsurgical bone reconstruction in pseudoarthrosis of the extremities.
- Replantation.
- Reconstruction of the upper limb.
- Surgical anatomy of brachial plexus.
- Surgical approach to the peripheral nerve injuries.
- Avoiding complications in lower limb reconstruction.
- Allotransplantation
- Reconstruction with epiphyseal flaps and joint transfer.







**MODULE 8. Clinical training in genitourinary reconstruction.**

The students will attend live microsurgical reconstruction of external genitalia and functional bladder reconstruction.

- Anatomy and physiology of genitourinary system.
- Gender reassignment approach.
- Microsurgical techniques in penile reconstruction.
- Reconstruction of penile defects:
  - Radial forearm flap.
  - Ulnar forearm flap.
  - Sensate osteocutaneous fibula flap.
  - Lateral arm flap.
  - Combined flaps: forearm flap urethroplasty + local tube pedicle flaps (superficial external pudendal artery-abdominal flap, ALTF...).
- Refinements and resolution of complications after total phalloplasty.
- Penile prosthesis implantation after total phalloplasty.
- Bladder functional reconstruction.

**MODULE M9. Clinical training in supermicrosurgery.**

Small groups of students will have the opportunity to observe live microsurgical techniques in lymphedema treatment. Live webcast surgery will be shown and interactive participation will be facilitated.

- Anatomy and physiology of the lymphatic system.
- Assessment and surgical treatment of lymphedema.
- Vascularised lymphatic node transfer.
- Lympho-venous anastomosis.
- Combined surgical treatment for lymphedema.
- Lymphangiogenesis and the role of growth factors in lymphedema.
- Free vascularised nerve flaps.
- Microsurgical nanoflaps.

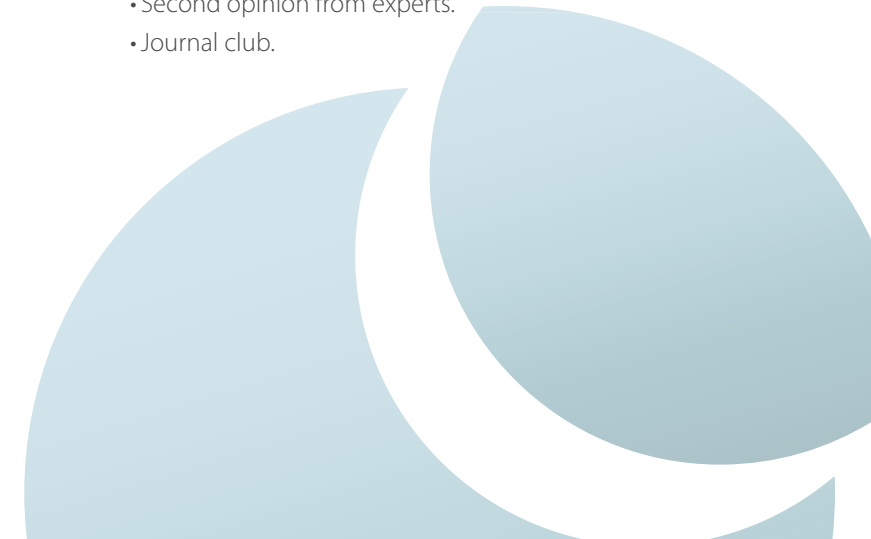
**MODULE M10. Clinical immersion programme.**

The programme includes a practical training module with feedback from facilitators. During this period, students will be involved in clinical cases involving reconstructive microsurgery. They will present cases to the other students and faculty to clarify doubts and evaluate the surgery.

- Joint review of the microsurgical technique.
- Presentation and discussion of complex clinical cases.
- Resolution of immediate and delayed post-surgical complications involving the flaps.
- Optimization of technique tailored to each student.

**ON-LINE CAMPUS: This e-learning area provides quality peer-reviewed information in a dynamic and interactive format.**

- Case review.
- Forum discussion to receive feedback from the faculty.
- Video surgery.
- Evaluation tests.
- Second opinion from experts.
- Journal club.



# Evaluation

## Clinical and practical assessments will be carried out.

Minimal requirements to be awarded the Master's Degree are:

- Attendance of at least 80% in scheduled classes.
- A grade of at least 70% of multiple choice exam of each module.
- Surgical efficiency and efficacy of at least 80 % through log book and portfolio review.
- A grade of at least 70% in the final exam involving a presentation of clinical cases.

- **Research skills:** clinical or experimental research projects and literature reviews will be encouraged to be published in a peer reviewed journal.

**Clinical immersion programme** will be assessed during the presential clinical immersion in module M10. Faculty will assess the therapeutic approach, the suitability of the chosen procedure and the quality of the oral presentation of clinical cases.



# Schedule

## Master's Degree

First academic year: October to March .

Second academic year: March to December .

## Diploma

October to March .

| MODULE                                                                                                               | LOCATION                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>M1</b> Masterclass: Essential concepts in microsurgery.                                                           | Paris - France                                                                                                                                        |
| <b>M2</b> Workshop: Microvascular surgery training using a small animal model (rats).                                | Barcelona - Spain                                                                                                                                     |
| <b>M3</b> Workshop: Flap dissection in fresh cadaver.                                                                | Paris - France                                                                                                                                        |
| <b>M4</b> Workshop: Dissection techniques of perforator flaps and supermicrosurgery using a live animal model (pig). | Elancourt - France                                                                                                                                    |
| <b>M5</b> Clinical training in head and neck microsurgical reconstruction.                                           | Barcelona - Spain                                                                                                                                     |
| <b>M6</b> Clinical training in breast microsurgical reconstruction.                                                  | Barcelona - Spain                                                                                                                                     |
| <b>M7</b> Clinical training in microsurgical reconstruction of the lower limb.                                       | Barcelona - Spain                                                                                                                                     |
| <b>M8</b> Clinical training in genitourinary reconstruction.                                                         | Barcelona - Spain                                                                                                                                     |
| <b>M9</b> Clinical training in supermicrosurgery.                                                                    | Barcelona - Spain                                                                                                                                     |
| <b>M10</b> Clinical immersion programme.                                                                             | Tokyo - Japan / Paris - France /<br>Gent - Belgium / Milan - Italy /<br>Helsinki - Finland / East Grinstead - UK /<br>London - UK / Barcelona - Spain |

# Faculty

■ **Joan Albanell MD, PhD**  
Hospital del Mar,  
Barcelona - Spain

■ **Agustí Barnadas MD, PhD**  
Hospital de Sant Pau,  
Barcelona - Spain

■ **Pere Arañó MD**  
Fundació Puigvert,  
Barcelona - Spain

■ **Helena Bascuñana MD, PhD**  
Hospital de Sant Pau,  
Barcelona - Spain

■ **Phillip Blondeel MD, PhD**  
Gent University Hospital,  
Gent - Belgium

■ **Enric Cáceres MD, PhD**  
Hospital del Mar,  
Barcelona - Spain

■ **César Casado MD, PhD**  
Hospital de La Paz,  
Madrid - Spain

■ **Jorge Caffaratti MD**  
Fundació Puigvert,  
Barcelona -Spain

■ **J.R. Escudero MD**  
Hospital de Sant Pau,  
Barcelona - Spain

■ **Manuel Fernández MD**  
Hospital de Sant Pau,  
Barcelona - Spain

■ **Cristina Garusi MD**  
European Institute of Oncology,  
Milan - Italy

■ **Isidre Gràcia MD**  
Hospital de Sant Pau,  
Barcelona - Spain

■ **Marco Innocenti MD, PhD**  
Ospedale Careggi,  
Florence - Italy

■ **Jian Farhadi MD, PD, FMH (Plast)**  
St. Thomas Hospital,  
London - UK

■ **Frederic Kolb MD, PhD**  
Institut Gustave Roussy,  
Paris - France

■ **Maija Kolehmainen MD, PhD**  
Helsinki Univ. Hospital,  
Helsinki - Finland

■ **Isao Koshima MD, PhD**  
Tokyo University Hospital,  
Tokyo - Japan

■ **Xavier León MD, PhD**  
Hospital de Sant Pau,  
Barcelona - Spain

■ **Manel Llusà MD, PhD**  
Hospital Vall d'Hebrón,  
Barcelona - Spain

■ **Susana López MD**  
Hospital de Sant Pau,  
Barcelona - Spain

■ **Andrea Marzetti MD**  
Ospedale San Carlo,  
Roma - Italy

■ **Jaume Masià MD, PhD**  
Hospital de Sant Pau,  
Barcelona - Spain

■ **Stan Monstrey MD, PhD**  
Gent Univ. Hospital,  
Gent - Belgium

■ **Antonio Moral MD, PhD**  
Hospital de Sant Pau,  
Barcelona - Spain

■ **Milomir Ninkovic MD, PhD**  
Hospital Bogenhausen,  
Munich - Germany

■ **Stefano Pompei MD, PhD**  
San Pertini Hospital,  
Roma - Italy

■ **Gemma Pons MD**  
Hospital de Sant Pau,  
Barcelona - Spain

■ **López Pousa MD, PhD**  
Hospital de Sant Pau,  
Barcelona - Spain

■ **Miquel Quer MD, PhD**  
Hospital de Sant Pau,  
Barcelona - Spain

■ **Eduard Ruiz- Castañé MD**  
Fundació Puigvert,  
Barcelona - Spain

■ **Sinikka Suominen MD, PhD**  
Helsinki Univ. Hospital,  
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■ **T.C. Teo MD (Hons), FRCS (Ed), FRCS (Plast)**  
Queen Victoria Hospital,  
East Grinstead - UK

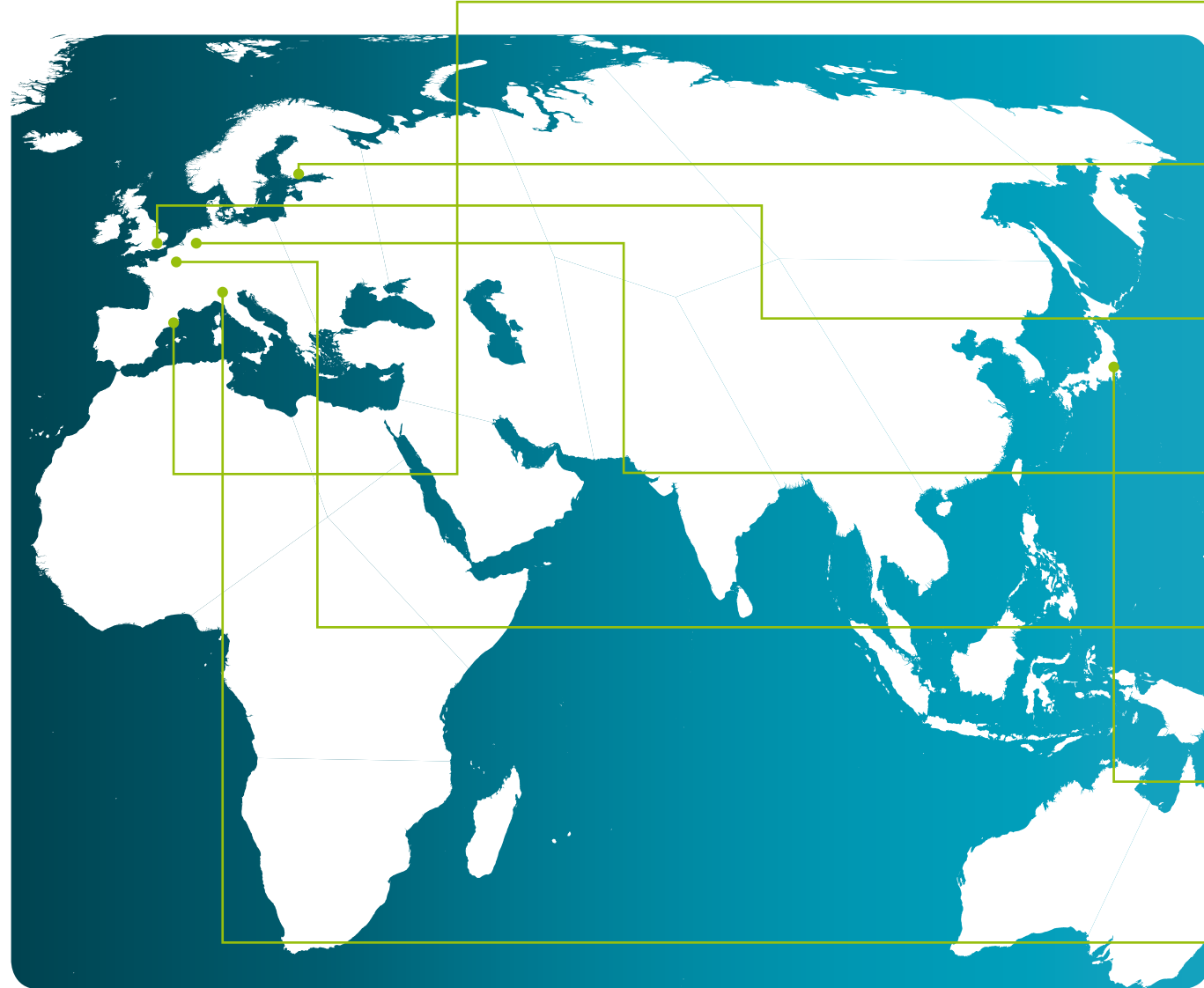
■ **Koenraad Van Landuyt MD, PhD**  
Gent Univ. Hospital,  
Gent - Belgium

■ **Carmen Vega MD**  
Hospital de Sant Pau,  
Barcelona - Spain

■ **Mar Vernet MD, PhD**  
Hospital del Mar,  
Barcelona - Spain



# Training locations



**Hospital de Sant Pau**  
C/ Sant Quintí 89 · Barcelona  
+34 932 91 90 00 · [www.santpau.es](http://www.santpau.es)



**Helsinki University Hospital**  
Fabianinkatu 24 · Helsinki · Finland  
+358 9 1911 · [www.helsinki.fi](http://www.helsinki.fi)



**Queen Victoria Hospital**  
Holtye Road · East Grinstead · UK  
+44 1342 414000 · [www.nhs.uk](http://www.nhs.uk)



**Gent University Hospital**  
De Pintelaan 185 · Gent · Belgium  
+32 9 332 21 11 · [www.uzgent.be](http://www.uzgent.be)



**Institut Gustave Roussy**  
39 Bis Rue Camille Desmoulins · Villejuif · Paris · France  
+33 1 45 21 61 19 · [www.igr.fr](http://www.igr.fr)



**Tokyo University Hospital**  
7-3-1- Hongo, Bunkyo-ku 113 · Tokyo · Japan  
+81 3 5800 8777 · [www.nmed/koshima/](http://www.nmed/koshima/)



**European Institute of Oncology**  
Via Giuseppe Ripamonti, 400 · Milan · Italy  
+39 02 574981 · [www.ieo.it](http://www.ieo.it)

## Number of students accepted

A maximum of 25 and a minimum of 9 students will be accepted to the Master Degree programme. The number of students admitted to the Diploma programme will depend on the number of students enrolled in the Master's Degree.

## Location

### ■ BARCELONA - SPAIN: M5, M6, M7 and M9

#### Hospital de Sant Pau

Universitat Autònoma de Barcelona  
C/ Sant Quintí 89 · 08041 Barcelona

### ■ SABADELL - SPAIN: M2

#### Centro de cirugía experimental de la Mútua Sabadellena

Corporació Sanitaria Parc Taulí · C/ Parc taulí 1 · 08028 Sabadell

### ■ PARIS - FRANCE: M1, M3

#### Université René Descartes

Faculté de Médecine Paris Descartes  
45 rue des Saints, Pères · 75006 Paris

### ■ ELANCOURT - FRANCE: M4

#### Covidien European Training Centre

2 rue Denis Diderot · 78990 Elancourt

### ■ BARCELONA - SPAIN: M8

#### Fundació Puigvert

C/ Cartagena 340 · 08025 Barcelona

Depending on student's preferences and availability of centres, the clinical immersion (M10) will take place at the following reference hospitals:

- Hospital de la Santa Creu i Sant Pau (Barcelona - Spain)
- Queen Victoria Hospital (East Grinstead - UK)
- Institut Gustave Roussy (Paris - France)
- European Institute of Oncology (Milan - Italy)
- Helsinki University Hospital (Helsinki - Finland)
- Gent University Hospital (Gent - Belgium)
- Tokyo University Hospital (Tokyo - Japan)
- St. Thomas Hospital (London - UK)

## Duration

2 years.

## Credits

A total of 78 ECTS (European Credits System Transfer) will be awarded. The ECTS is a student-centred system based on the student workload required to achieve the objectives of a programme. 1 ECTS is equivalent to 25 learning hours.

## Updating courses

Update sessions will be held every three years to discuss clinical cases, to stay abreast of current knowledge and to present new techniques and tools. The philosophy of these sessions is to establish a specialized working group with effective communication between former students and faculty.

## Registration

**Application deadline:** 30th April of the current year.

## Elegibility

- **For the Master Degree:** Specialists in plastic surgery and final-year plastic surgery residents.
- **For the Post-graduate Diploma:** Specialists in General Surgery, Gynaecology, Orthopaedics, ENT, Maxillofacial Surgery and Urologist.

### **Selection criteria will be based on:**

- Curriculum vitae.
- Two letters of reference are required.

## Tuition fees

**Master's Degree** 10,000 euros.

**Post-graduate diploma** 6,000euros.

The Master's degree fees are payable in two instalments of 6,000 euros and 4,000 euros.



*In search of excellence in Reconstructive Microsurgery*

Hospital de Sant Pau · Covidien European Training Centre · Université René Descartes





## Our partnerships

We are proud to partner with some of the world's most respected plastic surgery companies.

### Main partnership



# COVIDIEN

*positive results for life™*

### Other partnership



# BIOMET

# S&T

# Synovis

Surgical Innovations

# Leica

MICROSYSTEMS



## INFORMATION

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# Reconstructive Microsurgery

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