

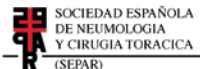
# SECOND International Joint Meeting on THORACIC SURGERY

Barcelona, 14<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup> November, 2012

[www.thoracicsurgery2012.org](http://www.thoracicsurgery2012.org)

## ■ ■ Venue

Auditorio Foment del Treball Nacional  
Via Laietana, 34, 08003 Barcelona (Spain)



7<sup>th</sup> International Meeting on General  
Thoracic Surgery

6<sup>th</sup> International Workshop on Surgical  
Exploration of the Mediastinum and  
Systematic Nodal Dissection

1<sup>st</sup> Meeting of the Thoracic Oncology,  
Thoracic Surgery and Techniques &  
Transplant Areas of the Spanish Society  
of Pneumology and Thoracic Surgery





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## ■ ■ Organizing and Scientific Committees ■ ■

### Organizing Committee \_\_\_\_\_

■ **Meeting Coordinators:**

Laureano Molins  
Ramón Rami-Porta  
José Belda-Sanchis

■ **Members:**

Rafael Aguiló  
Santiago Álvarez Alonso  
Carlos Bidegain  
Sergi Call  
Miguel Catalán  
Miguel Cuesta-Palomero  
Juan J. Fibla  
Josep María Gimferrer  
Abel Gómez-Caro  
José Luis Heredia

Manuela Iglesias  
Elisabeth Martínez  
José Manuel Mier  
Laureano Molins  
Ramón Rami-Porta  
Albert Rodríguez  
Roser Saumench  
Mireia Serra  
Gonzalo Vidal

### International Scientific Committee \_\_\_\_\_

Hisao Asamura  
José Belda-Sanchis  
Gerardo Bruno  
Stephen D. Cassivi  
Robert Cerfolio  
Frank Detterbeck  
Enriqueta Felip  
Raja M. Flores  
Peter Goldstraw

Haruhiko Kondo  
Douglas J. Mathisen  
Laureano Molins  
Silvia Quadrelli  
Ramón Rami-Porta  
Thomas Rice  
Valerie Rusch  
Paul Van Schil  
Mireia Serra

# ■ ■ Objectives and Background ■ ■

## Objectives

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This Second Joint Meeting has two principal goals: to provide the newest and the best evidence on several topics in thoracic surgery, and to review the most important details of both, time-honored and new procedures and surgical techniques.

The scientific programme will combine a series of short lectures with video forum sessions and educational seminars. Particular attention has been given to the discussion time of the topics in order to promote an active and rewarding participation.

The scientific programme will be designed to meet the needs of residents as well as young and senior specialists in thoracic surgery, pneumology, and oncology.

## Background

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**The International Meetings on General Thoracic Surgery** have been organized by the General Thoracic Surgery Unit of Sagrat Cor, University Hospital in Barcelona, in 1992, 1994, 1997, 1999 and 2002. International Faculty members have come from USA and Europe (H. Grillo, W.S. Payne, H. Ellis, P. Goldstraw, D. Mathisen, R. Landreneau, P. Pairolero, S. Hazelrigg, S. Cassivi, D. Lardinois, A. Patterson, D. Nuss, I. Vogt Moykopf, A. Lerut, E. Rendina, K. Naunheim, M.R. Mueller, and others) with a valuable contribution of the Spanish units in each of the meetings.

**The International Workshops on Surgical Exploration of the Mediastinum and Systematic Nodal Dissection** have been organized in Terrassa, Barcelona, Spain, in 1998, 2000, 2003 and 2006. Nearly 100 speakers from Spain and abroad have participated in these highly specific meetings. Their highlights have been the live surgery programmes featuring systematic nodal dissection and lung resection for lung cancer performed by Japanese thoracic surgeons (T. Naruke, R. Tsuchiya, T. Goya, H. Kondo, H. Nomori, and H. Asamura), and videomediastinoscopies, extended cervical videomediastinoscopies, video-assisted mediastinal lymphadenectomies, performed by staff thoracic surgeons and invited



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thoracic surgeons who developed these techniques (M. Huertgen, B. Witte, M. Zielinski, and J. Kuzdzal). Additionally, topics such as transbronchial needle aspiration and bronchial and oesophageal ultrasound with fine needle aspiration have been integrated into the programme due to its clinical relevance and utility.

**The Thoracic Oncology, Thoracic Surgery and Techniques & Transplant Areas** are multidisciplinary collaborative working groups of the Spanish Society of Pneumology and Thoracic Surgery (SEPAR) mainly composed by thoracic surgeons and pulmonologists but also by oncologists, radiologists, pathologists, nurses, etc. The number and quality of the scientific publications, guidelines and meetings testify to the long tradition and prestige of these working teams. Some of the most relevant works have been those of the Bronchogenic Carcinoma Cooperative Group I (GCCB-SEPAR-I) that registered data from nearly 3000 patients with lung cancer who had undergone surgical treatment from 1993 to 1997; from the analyses of the collected data, 31 publications in indexed journals have been already published; the Spanish Multicenter Study of Neuroendocrine Tumors of the Lung (EMETNE-SEPAR) with more than 5 publications in indexed journals specifically related to the treatment and prognosis of neuroendocrine lung tumors, the Spanish Group for Surgical Resection of Colo-rectal Pulmonary Metastases (GECMP-CCR-SEPAR) that has just finished the registration of data from more than 540 patients treated surgically; and the Bronchogenic Carcinoma Cooperative Group II (GCCB-SEPAR-II), specifically created to participate in the Prospective Lung Cancer Staging Project of the International Association for the Study of Lung Cancer, that has registered online more than 2000 patients.

In 2009, the leadership of these three long-standing initiatives joint their efforts in order to concentrate in a single meeting the updated information on several topics in the fields of general thoracic surgery and thoracic oncology. The result was the first International Joint Meeting on Thoracic Surgery that took place in Barcelona, Spain. National and International Faculty members from all around the world (P. Goldstraw, H. Asamura, A. Patterson, P. Van Schil, H. Kondo, S. Cassivi...) came to Barcelona to share knowledge and experience on relevant topics and novel aspects of the thoracic surgery. The successful result in terms of scientific quality and number of participants prompted us to promote the celebration of the second edition of the International Joint Meeting on Thoracic Surgery.

# ■ ■ Programme ■ ■

ALL SPEAKERS AND CHAIRPERSONS HAVE CONFIRMED THEIR PARTICIPATION, BUT THERE MIGHT BE MINOR CHANGES THAT WILL BE ANNOUNCED AT THE WEBSITE: [www.thoracicsurgery2012.org](http://www.thoracicsurgery2012.org)

## Wednesday, November 14<sup>th</sup>, 2012

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**06:30**

**Secretariat opens**

**07:00 - 07:35**

**Best posters**

**Chairpersons:** Carlos SIMÓN – Laureano MOLINS

- Transesophageal fine-needle aspiration with an ultrasound bronchoscope as a complementary method to endobronchial ultrasonography  
Zoran STOJANOVIC. Spain
- A multivariate analysis of factors predicting survival in patients with resected thymic carcinoma  
Masahiko HARADA. Japan
- Validation of selective mediastinal lymph node dissection for clinical n0 non-small cell lung cancer  
Taichiro ISHIZUMI. Japan
- The effect of microscopic residual disease at the bronchial resection margin on recurrence and survival after curative surgery for non-small cell lung cancer  
Geun Dong LEE. Korea
- Hilum vessels control in lung resection: stapler versus polymeric clips (hem-o-lock®)  
Cosimo LEQUAGLIE. Italia
- Uk lung cancer survival: where are we going wrong?  
Henrietta WILSON. United Kingdom

**07:40 - 07:55**

**OPENING CEREMONY**

**VIDEO FORUM 1 Surgery of the airway: Tricks for a successful operation**

**Chairpersons:** Douglas J. MATHISEN – Federico REA

**08:00 - 08:10**

**Robotic lobectomy**

Robert CERFOLIO



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- 08:10 - 08:20 Sleeve lobectomy  
Douglas J. MATHISEN
- 08:20 - 08:30 Sleeve pneumonectomy  
Federico REA
- 08:30 - 08:40 Sleeve broncho-angioplasty  
Abel GÓMEZ-CARO
- 08:40 - 08:50 Endotracheal procedures  
Josep Maria GIMFERRER
- 08:50 - 09:00 Resection of tracheal tumours  
Douglas J. MATHISEN
- 09:00 - 09:10 Our experience in tracheal transplantation  
Pierre DELAERE
- 09:10 - 09:25 Discussion

## SESSION 1

### Diagnosis and treatment of early lung cancer

Chairpersons: Douglas J. MATHISEN – Laureano MOLINS

- 09:30 - 09:40 Lung cancer & COPD  
Àlvar AGUSTÍ
- 09:40 - 09:50 What's "early" lung cancer?  
Stephen D. CASSIVI
- 09:50 - 10:00 CT diagnosis  
Marcelo SÁNCHEZ
- 10:00 - 10:10 Lung cancer screening: I-ELCAP-NLST  
Javier ZULUETA
- 10:10 - 10:20 Endoscopic diagnosis  
Antoni ROSELL
- 10:20 - 10:30 Pathologic diagnosis (Adeno/GGO)  
Josep RAMÍREZ
- 10:30 - 10:40 Which operation?  
Raja M. FLORES
- 10:40 - 11:00 Discussion
- 11:00 - 11:25 **Coffee break**



## SESSION 2

### Multimodality treatment for stage IIIA-N2 non-small cell lung cancer

Chairpersons: Stephen D. CASSIVI – Edurne ARRIOLA

11:30 - 11:40

Lessons learnt from clinical trials

Enriqueta FELIP

11:40 - 11:50

Need for proper restaging after induction treatment

Paul VAN SCHIL

11:50 - 12:00

When to operate on N2 disease?: The Japanese view

Shun-Ichi WATANABE

12:00 - 12:10

When to operate on N2 disease?: The North American view

Robert CERFOLIO

12:10 - 12:20

When to operate on N2 disease?: The European view

Paul DE LEYN

12:20 - 12:30

What to do with unexpected intraoperative N2

Frank DETTERBECK

12:30 - 13:00

Discussion

13:00 - 13:55

## SIMULTANEOUS LUNCH SESSIONS

### LUNCH SESSION 1

Conference Room 1

Sponsored by: PALEX

### How to start a robotic programme (lobectomy, thymectomy and oesophagectomy)

Robert CERFOLIO

### LUNCH SESSION 2

Conference Room 2

### Bioengineered lungs

Chairperson: Ramón MARRADES – Ramón FARRÉ

## VIDEO FORUM 2 Alternative treatments for early lung cancer

Chairpersons: Frank DETTERBECK – Manuela IGLESIAS

14:00 - 14:10

Stereotactic Body Radiation Therapy (SBRT)

Josep Maria SOLÉ i MONNÉ

14:10 - 14:20

Radio Frequency Ablation (RFA)

Alberto HIDALGO

14:20 - 14:30

PDT for endobronchial tumors

Pablo DÍAZ-JIMÉNEZ



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- 14:30 - 14:40 Wedge resections  
Bernward PASSLICK
- 14:40 - 14:50 Segmental resections  
Haruhiko KONDO
- 14:50 - 15:00 VATS Segmentectomy  
Raja M. FLORES
- 15:00 - 15:30 Discussion
- 15:30 - 15:55 **Coffee break**

## SESSION 3

### Basic molecular biology for thoracic surgeons

Chairpersons: Thomas RICE – Christian ROLFO

- 16:00 - 16:10 What is an oncogene?  
Alfons NAVARRO
- 16:10 - 16:20 What are driver and passenger mutations?  
Luis MONTUENGA
- 16:20 - 16:30 How does the TK pathway work and why to inhibit it?  
Noemí REGUART
- 16:30 - 16:40 How does a target therapeutic agent work?  
Enriqueta FELIP
- 16:40 - 16:50 Epigenetic signatures for prognosis in non small cell lung cancer  
Juan SANDOVAL
- 16:50 - 17:10 Discussion

## SESSION 4

### Pneumonectomy

Chairpersons: Jean DESLAURIERS – José BELDA-SANCHIS

- 17:15 - 17:25 Pneumonectomy after induction treatment  
Gilbert MASSARD
- 17:25 - 17:35 Quality of life after pneumonectomy  
Jean DESLAURIERS
- 17:35 - 17:45 Post-pneumonectomy syndrome  
José BELDA-SANCHIS

17:45 - 17:55      Indications for destroyed lung  
Souheil BOUBIA

17:55 - 18:05      Completion pneumonectomy  
Jean DESLAURIERS

18:05 - 18:30      Discussion

**EXTRAORDINARY  
LECTURE 1**

**Chairpersons:** Ramón RAMI-PORTA – Roser SAUMENCH

18:30 - 18:45      Prognosis of radiological non-invasive peripheral lung  
adenocarcinoma; results of prospective cohort study  
(JCOG0201)  
Masahiro TSUBOI

18:45 - 19:00      Indications of systematic nodal dissection in  
subcentimeter lung cancer  
Kenji SUZUKI

19:00 - 19:15      Discussion

19:30                **Secretariat closes**

19:45 - 20:45      **Official reception at Museo Picasso**



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Thursday, November 15<sup>th</sup>, 2012 \_\_\_\_\_

06:30

Secretariat opens

**SIMULTANEOUS BREAKFAST SESSIONS**

**BREAKFAST  
SESSION 1**

Auditorium

**Surgery for disorders of the autonomous nervous system**

Chairpersons: Laureano MOLINS

07:00 - 07:15

Surgery for facial flushing: importance of preoperative psychiatric consultation

Claudio SUÁREZ

07:15 - 07:30

Clipping versus cutting

Juan J. FIBLA

07:30 - 07:55

Discussion

**BREAKFAST  
SESSION 2**

Conference Room 1

**Extended resections for locally advanced lung cancer and chest wall tumours**

Chairpersons: Fernando A. ABDALA – Amaia OJANGUREN

07:00 - 07:15

Extended resection in Stage III-B Lung Cancer

Haruhiko KONDO

07:15 - 07:30

Extended resection of chest wall tumors

Angelo FERNANDES

07:30 - 07:55

Discussion

**VIDEO FORUM 3 Surgical staging and restaging of the mediastinum**

Chairpersons: Hisao ASAMURA – Ramón RAMI-PORTA

08:00 - 08:12

Cervical video-mediastinoscopy & extended cervical videomediastinoscopy

Sergi CALL

08:12 - 08:24

Video-assisted mediastinoscopic lymphadenectomy (VAMLA)

Martin HÜRTGEN

- 08:24 - 08:36** Transcervical extended mediastinal lymphadenectomy (TEMLA)  
Marcin ZIELINSKI
- 08:36 - 08:48** Mediastinal and pleuro-mediastinal exploration by VATS  
Antonio MARTÍN-UCAR
- 08:48 - 09:00** Remediastinoscopy  
Paul VAN SCHIL
- 09:00 - 09:25** Discussion

**SESSION 5** **The 7<sup>th</sup> edition of the TNM classification of lung cancer in practice**

Chairpersons: Valerie RUSCH – Mireia SERRA

- 09:30 - 09:42** Clinical implications  
Ramón RAMI-PORTA
- 09:42 - 09:54** Tips for a proper pathologic classification  
Peter GOLDSTRAW
- 09:54 - 10:06** The visceral pleura invasion: discrepancies in interpretation and prognostic value  
Hisao ASAMURA
- 10:06 - 10:18** Difficulties with the new regional lymph node map  
Haruhiko KONDO
- 10:18 - 10:30** Staging value of intraoperative pleural lavage cytology  
Eric LIM
- 10:30 - 11:00** Discussion

**EXTRAORDINARY LECTURE 2**

Chairperson: Ramón RAMI-PORTA

- 11:00 - 11:20** How to do a meta-analysis  
Eric LIM
- 11:20 - 11:30** Discussion
- 11:00 - 11:30** **Coffee break**



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## SESSION 6

### Lung cancer: regional nodal disease

Chairpersons: Ramón RAMI-PORTA – Paul VAN SCHIL

- 11:30 - 11:40 Frequency and prognostic impact of nodal micrometastases  
Bernward PASSLICK
- 11:40 - 11:50 Prognostic heterogeneity of N1 disease  
Pierre MORDANT
- 11:50 - 12:00 Prognostic heterogeneity of N2 disease  
Frank DETTERBECK
- 12:00 - 12:10 Frequency and prognostic impact of skip pN2 disease  
Pierre MORDANT
- 12:10 - 12:20 Relevance of the number of positive lymph nodes  
Hisao ASAMURA
- 12:20 - 12:30 The nodal zones: How to use them in clinical staging  
Valerie RUSCH
- 12:30 - 13:00 Discussion
- 13:00 - 13:55 **Lunch**
- 13:00 - 13:55 **LUNCH SESSION**

## LUNCH SESSION 3

Conference Room 1

### Osteosynthesis for flail chest and/or extended rib fractures

Gilbert MASSARD

## VIDEO FORUM 4 Intraoperative nodal assessment

Chairpersons: Frank DETTERBECK – Haruhiko KONDO

- 14:00 - 14:10 How to do it by VATS  
Raja M. FLORES
- 14:10 - 14:20 How to do it by robotics  
Robert CERFOLIO
- 14:20 - 14:30 Systematic nodal dissection for right-sided tumours  
Hisao ASAMURA
- 14:30 - 14:40 Systematic nodal dissection for left-sided tumours  
Hisao ASAMURA

- 14:40 - 14:50** Precise dissection of intrapulmonary and hilar lymph nodes: how to use the electrocautery  
Shun-Ichi WATANABE
- 14:50 - 15:00** Combined VAMLA & VATS  
Biruta WITTE
- 15:00 - 15:30** Discussion
- 15:30 - 15:55** **Coffee break**

**SESSION 7** **Present limitations and future directions in staging of thoracic malignancies**

*Chairpersons:* Peter GOLDSTRAW – José BELDA-SANCHIS

- 16:00 - 16:12** Lung cancer  
Ramón RAMI-PORTA
- 16:12 - 16:24** Mesothelioma  
Valerie RUSCH
- 16:24 - 16:36** Thymic malignancies  
Frank DETTERBECK
- 16:36 - 16:48** Oesophageal cancer  
Thomas RICE
- 16:48 - 17:10** Discussion

**SESSION 8** **Spanish contribution to the prospective phase of the IASLC Staging Project**

*Chairpersons:* Peter GOLDSTRAW – Mireia SERRA

- 17:15 - 17:27** Characteristics of the Bronchogenic Carcinoma Cooperative Group of the Spanish Society of Pneumology and Thoracic Surgery II (GCCB-S-II) and global description of their study  
Julio SÁNCHEZ DE COS ESCUÍN
- 17:27 - 17:39** Principal characteristics of the non-surgically treated patients  
Jesús HERNÁNDEZ HERNÁNDEZ



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- 17:39 - 17:51** Principal characteristics of the surgically treated patients  
Mireia SERRA
- 17:51 - 18:03** Concordance between clinical and pathologic classification  
Helena HERNÁNDEZ RODRÍGUEZ
- 18:03 - 18:25** Discussion

## EXTRAORDINARY LECTURE 3

Chairpersons: Laureano MOLINS – Ramón RAMI-PORTA

- 18:30 - 19:00** Medical ethics in the movies  
Silvia QUADRELLI
- 19:00 - 19:15** Interview  
Adolfo BLANCO
- 19:30** **Secretariat closes**



Friday, November 16<sup>th</sup>, 2012

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06:30

Secretariat opens

### SIMULTANEOUS BREAKFAST SESSIONS

#### **BREAKFAST SESSION 3**

Auditorium

#### **Tracheal stents and transplantation**

Chairpersons: Ramón RAMI-PORTA – Elisabeth MARTÍNEZ

07:00 - 07:15

New research in tracheal stenting

Olavo RIBEIRO RODRIGUES

07:15 - 07:30

Tracheal transplantation: State of the art

Pierre DELAERE

07:30 - 07:55

Discussion

#### **BREAKFAST SESSION 4**

Conference Room 1

#### **Induction therapy for locally advanced lung cancer**

Chairpersons: Núria VIÑOLAS – Albert RODRÍGUEZ

07:00 - 07:15

Rationale for induction chemo-radiotherapy in lung cancer

Silvia QUADRELLI

07:15 - 07:30

Rationale for increasing the dose of preoperative radiotherapy

Francesc CASAS

07:30 - 07:55

Discussion

#### **BREAKFAST SESSION 5**

Conference Room 2

Sponsored by: PENTAX

#### **Pitfalls of the EBUS-TBNA**

07:00 - 07:55

Pitfalls of the EBUS-TBNA

Felipe ANDREO

#### **VIDEO FORUM 5 Surgical techniques for advanced thoracic malignancies**

Chairpersons: Raja M. FLORES – Michael Rolf MUELLER

08:00 - 08:10

Resection of superior vena cava

Shun-Ichi WATANABE

08:10 - 08:20

Replacement of pulmonary artery

Abel GÓMEZ-CARO



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- 08:20 - 08:30 Thymic tumor with mediastinal invasion  
Federico REA
- 08:30 - 08:40 Extrapleural pneumonectomy for MPM  
Valerie RUSCH
- 08:40 - 08:50 Pleurectomy/Decortication for MPM  
Antonio MARTÍN-UCAR
- 08:50 - 09:00 Posterior mediastinal tumours:  
Resection of dumb-bell tumours  
Thomas RICE
- 09:00 - 09:25 Discussion

## SESSION 9 **Integrating ultrasound-guided endoscopies with FNA into clinical staging**

Chairpersons: Víctor CURULL – Eduard MONSÓ

- 09:30 - 09:40 What is “normal” in PET/CT  
Francisco LOMEÑA
- 09:40 - 09:50 EBUS-TBNA when the mediastinum is normal  
on CT and on PET  
Carles AGUSTÍ
- 09:50 - 10:00 EBUS-TBNA when the mediastinum is not normal  
on CT and on PET  
Eduard MONSÓ
- 10:00 - 10:10 EBUS-TBNA for restaging after induction therapy  
Artur SZLUBOWSKI
- 10:10 - 10:20 EUS-FNA for staging and restaging  
Àngels GINÉS
- 10:20 - 10:30 Combined EBUS-TBNA and EUS-FNA  
Artur SZLUBOWSKI
- 10:30 - 11:00 Discussion
- 11:00 - 11:25 **Coffee break**

11:30 - 13:30 **GECMP-CCR-SEPAR meeting**  
*V Reunión del Grupo de Cirugía de Metástasis  
Pulmonares de Carcinoma Colorectal*  
Room C

## **SESSION 10 (I) Hydatid disease**

Chairpersons: Souheil BOUBIA – Claudio SUÁREZ

- 11:30 - 11:37 Management when the great vessels are involved  
Semih H. HALEZEROGLU
- 11:37 - 11:44 Uncommon locations of the hydatid thoracic cysts  
Mohammed RIDAI
- 11:44 - 11:51 Indications and results of preoperative and postoperative medical treatment  
Semih H. HALEZEROGLU
- 11:51 - 11:58 Indications of VATS for hydatid disease of the lung  
Mohammed RIDAI
- 11:58 - 12:12 Discussion

## **SESSION 10 (II) Chest trauma**

Chairpersons: Tamás F. MOLNÁR – Jordi FREIXINET

- 12:15 - 12:25 Principles of management of blunt and open chest trauma  
Semih HALEZEROGLU
- 12:25 - 12:35 Principles of management of lung contusion  
Tamás F. MOLNÁR
- 12:35 - 12:45 Differential issues of war chest trauma  
Vlado Savo CVIJANOVIC
- 12:45 - 12:55 When to use osteosynthesis  
Guillermo CARRIQUIRY
- 12:55 - 13:05 Discussion
- 13:05 - 13:55 **Lunch**
- 13:00 - 13:55 **SIMULTANEOUS LUNCH SESSIONS**

## **LUNCH**

### **SESSION 4**

Conference Room 1

Sponsored by: TAKEDA

**Hemostasis, lung sealing and adhesion prophylaxis in thoracic surgery**

Michael Rolf MUELLER



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## LUNCH SESSION 5

Conference Room 2

Sponsored by: ETHICON ENDOSURGERY

### Single-port VATS surgery: Current possibilities and future directions

Antonio MARTIN-UCAR / Diego GONZALEZ-RIVAS

## VIDEO FORUM 6 Miscellaneous Surgical Techniques

Chairpersons: Thomas RICE – Raúl EMBÚN

- 14:00 - 14:10** Asymmetric chest wall deformities  
Mustafa YUKSEL
- 14:10 - 14:20** Pectus Carinatum: Minimally invasive approach  
José Ramón CANO
- 14:20 - 14:30** Unclipping and reversal of sympathectomy  
Juan J. FIBLA
- 14:30 - 14:40** Transcervical-subxiphoid-videothoroscopic maximal thymectomy  
Marcin ZIELINSKI
- 14:40 - 14:50** Lung transplant  
Stephen D. CASSIVI
- 14:50 - 15:00** VATS resection of 1<sup>st</sup> rib  
Miguel CONGREGADO
- 15:00 - 15:10** Unusual chest wall tumors  
Olavo RIBEIRO RODRIGUES
- 15:10 - 15:20** Chest wall tumors: What to do when the upper limb is involved  
Angelo FERNANDES
- 15:20 - 15:30** Discussion
- 15:30 - 15:55** **Coffee break**

## SESSION 11

### Mesothelioma

Chairpersons: Valerie RUSCH – Laureano MOLINS

- 16:00 - 16:10** Overview: Magnitude of the problem  
Raja M. FLORES
- 16:10 - 16:20** Early diagnosis: Is it possible?  
Felip CARDENAL

- 16:20 - 16:30** Pleurectomy/Decortication vs Pleuroneumonectomy  
Antonio MARTÍN-UCAR
- 16:30 - 16:40** Surgical definitions  
Valerie RUSCH
- 16:40 - 16:50** Modern treatments & research  
Christian ROLFO
- 16:50 - 17:10** Discussion

**SESSION 12** **Colorectal cancer metastases to the lung**  
Chairpersons: Tom TREASURE – Rafael AGUILÓ

- 17:15 - 17:25** Results of the Spanish Registry.  
Raúl EMBÚN
- 17:25 - 17:35** Influence of systematic nodal dissection  
Sergi CALL
- 17:35 - 17:45** How far should we go surgically in metastatic colorectal carcinoma?  
Lluís CIRERA
- 17:45 - 17:55** Surgical strategies  
Tamás F. MOLNÁR
- 17:55 - 18:05** The international implications of the Spanish Registry  
Tom TREASURE
- 18:05 - 18:30** Discussion
- 18:30 - 18:45** **Closing remarks**  
Laureano MOLINS  
Ramón RAMI-PORTA  
José BELDA-SANCHIS
- 19:00** **Secretariat closes**



# SECOND International Joint Meeting on THORACIC SURGERY

Barcelona, 14<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup> November, 2012

## ■ ■ Speakers and Chairpersons ■ ■

**Fernando A. ABDALA**, Sanatorio Los Arcos, Buenos Aires, Argentina

**Rafael AGUILÓ**, Thoracic Surgery Service, Hospital del Mar, Barcelona, Spain

**Àlvar AGUSTÍ**, Thorax Institute, Hospital Clínic, Barcelona, Spain

**Carles AGUSTÍ**, Pneumology Service, Hospital Clínic, Barcelona, Spain

**Santiago ÀLVAREZ ALONSO**, Thoracic Surgery Service, Consorci Sanitari de Terrassa, Terrassa, Barcelona, Spain

**Felipe ANDREO**, Pneumology Service. Hospital Germans Trias i Pujol, Badalona, Spain

**Eduarne ARRIOLA**, Oncology Service, Hospital del Mar, Barcelona, Spain

**Hisao ASAMURA**, Division of Thoracic Surgery, National Cancer Center Hospital, Tokyo, Japan

**José BELDA-SANCHIS**, Thoracic Surgery Service, Hospital Universitari Mútua Terrassa, Terrassa, Barcelona, Spain

**Carlos BIDEGAIN**, Thoracic Surgery Service, Hospital Universitari Mútua Terrassa, Terrassa, Barcelona, Spain

**Adolfo BLANCO**, A Contracorriente Films, Barcelona, Spain

**Souheil BOUBIA**, Thoracic Surgery Service, Centre Hospitalier Universitaire Ibn Rochd, Casablanca, Morocco

**Gerardo BRUNO**, Thoracic Surgery Service, Hospital Maciel, Montevideo, Uruguay

**Sergi CALL**, Thoracic Surgery Service, Hospital Universitari Mútua Terrassa, Terrassa, Barcelona, Spain

**Jose Ramón CANO**, Thoracic Surgery Service, Hospital Universitario Insular de Gran Canaria, Gran Canaria, Spain

**Felip CARDENAL**, Catalan Institute of Oncology, Barcelona, Spain

**Guillermo CARRIQUIRY**, Thoracic Surgery Service, Hospital Maciel, Montevideo, Uruguay

**Francesc CASAS**, Radiotherapy Service, Hospital Clínic, Barcelona, Spain

**Miguel CATALÁN**, Thoracic Surgery Service, Hospital Clínic, Barcelona, Spain

**Robert CERFOLIO**, Department of Cardiothoracic Surgery, University of Alabama at Birmingham, Birmingham, AL, USA

**Lluís CIRERA**, Oncology and Hematology Service, Hospital Universitari Mútua Terrassa, Terrassa, Barcelona, Spain

**Miguel CONGREGADO**, Thoracic Surgery Service, Hospital Virgen de la Macarena, Sevilla, Spain

**Miguel CUESTA-PALOMERO**, Thoracic Surgery Service, Hospital Universitari Mútua Terrassa, Terrassa, Barcelona, Spain

**Víctor CURULL**, Pneumology Service. Hospital del Mar, Barcelona, Spain

**Vlado Savo CVIJANOVIC**, Department of Thoracic Surgery, Military Medical Academy, Beograd, Serbia

**Stephen D. CASSIVI**, Department of Thoracic Surgery, Mayo Clinic, Rochester, MN, USA

**Paul DE LEYN**, Department of Thoracic Surgery, University Hospitals Leuven, Leuven, Belgium

**Pierre DELAERE**, Otolaryngology Department, University Hospitals Leuven, Leuven, Belgium

**Jean DESLAURIERS**, Centre de Pneumologie, Hôpital Laval, Quebec, Canada

**Frank DETTERBECK**, Department of Thoracic Surgery, Yale University, New Haven, CT, USA

**Pablo DÍAZ-JIMÉNEZ**, Pneumology Service, Hospital de Bellvitge, L'Hospitalet de Llobregat, Barcelona, Spain

**Raúl EMBÚN**, Thoracic Surgery Service, Hospital Universitario Miguel Servet, Zaragoza, Spain

**Ramón FARRÉ**, Biophysics and Bioengineering Unit, Facultat de Medicina, Universitat de Barcelona, Barcelona, Spain

**Enriqueta FELIP**, Oncology Service, Hospital Universitari Vall d'Hebron, Barcelona, Spain

**Angelo FERNANDES**, Department of Thoracic Surgery, University of São Paulo Medical School, São Paulo, Brazil

**Juan J. FIBLA**, Thoracic Surgery Service, Hospital Universitari Sagrat Cor, Barcelona, Spain

**Raja M. FLORES**, Thoracic Surgery Service, Mount Sinai Medical Center, New York, NY, USA

**Jordi FREIXINET**, Thoracic Surgery Service, Hospital Universitario de Gran Canaria Dr. Negrín, Las Palmas, Gran Canaria, Spain

**Josep Maria GIMFERRER**, Thoracic Surgery Service, Hospital Clínic, Barcelona, Spain

**Àngels GINÉS**, Department of Gastroenterology, Institut Clínic de Malalties Digestives, Hospital Clínic, Barcelona, Spain

**Peter GOLDSTRAW**, Department of Thoracic Surgery, Royal Brompton Hospital, London, United Kingdom

**Abel GÓMEZ-CARO**, Thoracic Surgery Service, Hospital Clínic, Barcelona, Spain

**Diego GONZÁLEZ-RIVAS**, Complejo Hospitalario Universitario de A Coruña, Spain

**Semih H. HALEZEROGLU**, General Thoracic Surgery, Faculty of Medicine Acibadem Maslak Hospital, Istanbul, Turkey

**José Luis HEREDIA**, Pneumology Service, Hospital Universitari Mútua Terrassa, Terrassa, Barcelona, Spain

**Jesús HERNÁNDEZ HERNÁNDEZ**, Pneumology Service, Hospital Nuestra Señora de Sonsoles, Ávila, Spain

**Helena HERNÁNDEZ RODRÍGUEZ**, Thoracic Surgery Service, Hospital Universitario de Canarias, La Laguna, Sta. Cruz de Tenerife, Canarias, Spain

**Alberto HIDALGO**, Servicio de Radiodiagnóstico, Hospital de la Santa Creu i Sant Pau, Barcelona, Spain

**Martin HÜRTGEN**, Thoraxchirurgie, Katholisches Klinikum, Koblenz, Germany

**Manuela IGLESIAS**, Thoracic Surgery Service, Hospital Universitari Mútua Terrassa, Terrassa, Barcelona, Spain

**Haruhiko KONDO**, Division of Thoracic Surgery, Kyorin University, Tokyo, Japan

**Eric LIM**, Thoracic Surgery Service, Royal Brompton Hospital, London, United Kingdom

**Francisco LOMEÑA**, Nuclear Medicine Service, Hospital Clínic, Barcelona, Spain

**Ramón MARRADES**, Pneumology Service, Hospital Clínic, Barcelona, Spain

**Antonio MARTÍN-UCAR**, Department of Thoracic Surgery, Nottingham University Hospitals, Nottingham, United Kingdom

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**Gilbert MASSARD**, Thoracic Surgery Service, Hôpitaux Universitaires de Strasbourg, Strasbourg, France

**Douglas J. MATHISEN**, Department of Thoracic Surgery, Massachusetts General Hospital, Boston, MA, USA

**José Manuel MIER**, Thoracic Surgery Service, Hospital Sagrat Cor, Barcelona, Spain

**Laureano MOLINS**, Thoracic Surgery Service, Hospital Clínic, Hospital Universitari Sagrat Cor, Barcelona, Spain

**Tamás F. MOLNÁR**, Department of Thoracic Surgery, University Medical School of Pécs, Pécs, Hungary

**Eduard MONSÓ**, Pneumology Service, Hospital de Sabadell, Sabadell, Barcelona, Spain

**Luis MONTUENGA**, Laboratory of Biomarkers, Oncology Division, Center of Applied Medical Research CIMA, University of Navarra, Pamplona, Spain

**Pierre MORDANT**, Thoracic Surgery Service, Hôpital Bichat-Claude Bernard, Université Paris, Paris, France

**Michael Rolf MUELLER**, Division of Thoracic Surgery, Otto Wagner Hospital, Vienna, Austria

**Alfons NAVARRO**, Unit of Human Anatomy and Embryology, Hospital Clínic, Barcelona, Spain

**Amaia OJANGUREN**, Thoracic Surgery, Hospital Universitari Arnau de Vilanova, Lleida, Spain

**Bernward PASSLICK**, Department of Thoracic Surgery, Albert-Ludwigs-University Freiburg, Freiburg, Germany

**Silvia QUADRELLI**, Hospital Británico, Buenos Aires, Argentina

**Ramón RAMI-PORTA**, Thoracic Surgery Service, Hospital Universitari Mútua Terrassa, Terrassa, Barcelona, Spain

**Josep RAMÍREZ**, Pathology Service, Hospital Clínic, Barcelona, Spain



# SECOND International Joint Meeting on THORACIC SURGERY

Barcelona, 14<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup> November, 2012

**Federico REA**, Department of Thoracic Surgery,  
University of Padua, Padua, Italy

**Noemi REGUART**, Oncology Service, Hospital  
Clínic, Barcelona, Spain

**Olavo RIBEIRO RODRIGUES**, Department of  
Thoracic Surgery, Universidad de Mogi das Cruzes,  
São Paulo, Brazil

**Thomas RICE**, Department of Thoracic &  
Cardiovascular Surgery, Cleveland Clínic,  
Cleveland OH, USA

**Mohammed RIDAI**, Thoracic Surgery Service,  
Centre Hospitalier Universitaire Ibn Rochd,  
Casablanca, Morocco

**Albert RODRÍGUEZ**, Thoracic Surgery Service,  
Hospital del Mar, Barcelona, Spain

**Christian ROLFO**, Oncology Department.  
University Hospital of Antwerp – UZA, Edegem,  
Belgium

**Antoni ROSELL**, Pneumology Service,  
Hospital de Bellvitge, L'Hospitalet de Llobregat,  
Barcelona, Spain

**Valerie RUSCH**, Department of Thoracic  
Surgery, Memorial Sloan-Kettering Cancer Center,  
New York, NY, USA

**Marcelo SÁNCHEZ**, Radiodiagnostic Service,  
Hospital Clínic, Barcelona, Spain

**Julio SÁNCHEZ DE COS ESCUÍN**,  
Pneumology Service, Hospital San Pedro de  
Alcántara, Cáceres, Spain

**Juan SANDOVAL**, Bellvitge Biomedical  
Research Institute, IDIBELL, Hospital Duran i  
Reynals, L'Hospitalet de Llobregat, Barcelona, Spain

**Roser SAUMENCH**, Thoracic Surgery Service,  
Hospital Universitari Mútua Terrassa, Terrassa,  
Barcelona, Spain

**Mireia SERRA**, Thoracic Surgery Service,  
Hospital Universitari Mútua Terrassa, Terrassa,  
Barcelona, Spain

**Carlos SIMÓN**, Thoracic Surgery Service,  
Hospital Gregorio Marañón, Madrid, Spain

**Josep M<sup>a</sup> SOLÉ I MONNÉ**, Department of  
Radiotherapy, Hospital General de Catalunya,  
Barcelona, Spain

**Claudio SUÁREZ**, Thoracic Surgery Service,  
Clínica Santa María, Santiago de Chile, Chile

**Kenji SUZUKI**, General Thoracic Surgery,  
Juntendo University School of Medicine,  
Tokyo, Japan

**Artur SZLUBOWSKI**, Department of  
Pneumology, Pulmonary Hospital, Zakopane, Poland

**Tom TREASURE**, Clinic Operational Research  
Unit, UCL, London, United Kingdom

**Masahiro TSUBOI**, Department of Thoracic  
Surgery, Kanagawa Cancer Center, Kanagawa, Japan

**Paul VAN SCHIL**, Department of Thoracic and  
Vascular Surgery, University Hospital of Antwerp,  
Edegem, Antwerp, Belgium

**Gonzalo VIDAL**, Thoracic Surgery Service,  
Hospital Sagrat Cor, Barcelona, Spain

**Núria VIÑOLAS**, Oncology Service, Hospital  
Clínic, Barcelona, Spain

**Shun-Ichi WATANABE**, Division of Thoracic  
Surgery, National Cancer Center Hospital,  
Tokyo, Japan

**Biruta WITTE**, Thoraxchirurgie, Katholisches  
Klinikum, Koblenz, Germany

**Mustafa YUKSEL**, General Thoracic Surgery,  
Marmara University Thoracic Surgery Department,  
Istanbul, Turkey

**Marcin ZIELINSKI**, Department of Thoracic  
Surgery, Pulmonary Hospital, Zakopane, Poland

**Javier ZULUETA**, Department of Pneumology,  
Universidad de Navarra, Pamplona, Spain



## ■ ■ Posters ■ ■

Abstracts of proffered papers will be considered for electronic poster display, only. Selected abstracts will be divided into three categories: a) general thoracic surgery; b) lung cancer staging and mediastinal lymph node dissection; and c) general topics on lung cancer. The presenters of the best 6 posters will have the opportunity to summarise their content in two minutes, that will be followed by a 3-minute discussion. Prospective presenters are kindly asked to prepare their posters in English. There will not be physical posters in this Joint Meeting. The presenters will be asked to submit their posters in a single Power Point slide. In the venue of the Joint Meeting, computers will be available to see the posters.

Abstracts of a maximum of 250 words should be uploaded into this website no later than July 15th, 2012.

The presenter of the poster **MUST** be registered in the Workshop.

The presenters of the posters will be informed of the decisions regarding the acceptance of the posters by September 7th, 2012.

The abstract must be informative and must include: a) objectives (with or without introduction), b) methods, c) results, and d) conclusions. Statements such as “the results will be presented” are unacceptable.

Send the abstract in Word format following these instructions:

- a. use font no smaller than 10 points;
- b. type title in capital letters;
- c. type single space;
- d. underline presenter’s name;
- e. organize the heading of the abstract as follows: title, authors’ names, institution, city and country, leaving one line between the heading and the body of the abstract.

Send the abstract to: [thoracic.surgery@actoserveis.com](mailto:thoracic.surgery@actoserveis.com)

# SECOND International Joint Meeting on THORACIC SURGERY

Barcelona, 14<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup> November, 2012

## ■ ■ Registration ■ ■

Registration fee	Before September 25 <sup>th</sup> , 2012	From September 25 <sup>th</sup> to October 31 <sup>st</sup> , 2012	After November 1 <sup>st</sup> , 2012 and on-site registration
Residents in thoracic surgery	400.00 €	450.00 €	500.00 €
One day registration	250.00 €	250.00 €	250.00 €
Other	600.00 €	650.00 €	700.00 €

### Registration fee includes

- Admission to all sessions and poster presentations
- Admission to exhibition area
- Meeting documentation and programme
- Coffee breaks and lunches
- Certificate of attendance
- Official Reception at City Hall

Registration documentation will be handed-out to the participants from the Meeting Secretariat.

Registration forms will be only processed when received before November 1st, 2012. After this date registration forms will be processed as on-site registrations.

### On-line registration

On-line registration is possible through the web site:

[www.thoracicsurgery2012.org](http://www.thoracicsurgery2012.org)

### Registration

Registration form is also available on this web site ready to be printed. Please send it by fax or post together with the corresponding payment to the Secretariat before November 1st, 2012. Late registration will be possible on-site. Registration forms received without the complete contact address or without payment will not be accepted. The fees should be paid in Euros by credit card or bank transfer or by bank cheque in Euros payable through a Spanish bank and made out to ACTO-SERVEIS THORACIC SURGERY. A confirmation letter will be sent by email. Participants must bring this letter to the registration desk as proof of their registration.

## **Cancellation policy**

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Any cancellation must be notified in writing and will be subjected to the following conditions: refund of fees, less a 25% administrative charge, will be applied to cancellations received up to October 31st, 2012. As of November 1st, 2012, no refund can be made.

## **Payment of Registration Fees**

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Registrations can only be validated and confirmed when accompanied by payment. Early rates only apply when registration and payment are received before September 25th . When registrations and payments are received after September 25th 2012, then the corresponding late fees will automatically apply.

Payment in EURO (€) should be made in advance by one of the following means:

### **1. Bank to bank transfer to ACTO SERVEIS in Euros**

**BANK:** CAIXA D'ESTALVIS DE CATALUNYA  
**ACCOUNT NUMBER:** 2013.0196.84.0201513431  
**IBAN:** ES11 2013 0196 8402 0151 3431  
**BIC:** CESCESBBXXX  
**REF.:** ACTO GESTIO – THORACIC SURGERY

Clearly mention name and/or registration number with the bank transfer. Remittance should be free of charge to the recipient.

### **2. Registration fees may be paid by credit card (ON-LINE REGISTRATION)**

## ■ ■ Accommodation ■ ■

### Hotel reservation

The Meeting Secretariat (ACTO SERVEIS) is in charge of hotel accommodation and will operate on a first-come first-served basis with the incoming requests. Due to heavy demand and to the fact that distribution of rooms is limited, accommodation cannot be guaranteed after SEPTEMBER 1st, 2012.

Hotel accommodation in various price categories and with special rates has been reserved in Barcelona.

### Official hotels :

Breakfast and VAT included. Prices are per room and nights.

Hotels	Double room for single use	Double room
<b>HOTEL COLON ****</b> Av/ Catedral, 7. 08002 Barcelona	152.25 €	191,20 €
<b>HOTEL HCC MONTBLANC ***</b> C/ Via Laietana, 61. 08003 Barcelona	135.70 €	135.70 €
<b>HOTEL GOTICO ***</b> C/ Jaime I, 14. 08002 Barcelona	165.20 €	194.70 €
<b>HOTEL RIALTO ****</b> C/ Ferran, 40-42. 08002 Barcelona	118,00 €	135.70 €

**Deadline for guaranteed hotel reservations:** 1 September 2012

*The Organisers strongly recommend that all participants request accommodation before 1 september 2012. After this date hotel accommodation cannot be guaranteed. A limited number of rooms have been booked for participants at special rates. The Technical Secretariat reserves the right to book another hotel/category if the desired one is fully booked. If this is necessary, participants will be notified as soon as possible.*

### On-line hotel request \_\_\_\_\_

On-line hotel request is possible through the web site:

[www.thoracicsurgery2012.org](http://www.thoracicsurgery2012.org)

### Hotel request \_\_\_\_\_

Hotel reservation form is available on this web site in Word format ready to be printed. Please send it by fax or post together with the corresponding payment to the Meeting Secretariat before 1st September 2012. Hotel forms received without the complete contact address or without payment will not be accepted. The total amount should be paid in Euros by credit card or by bank transfer or by bank cheque in Euros payable through a Spanish bank and made out to ACTO SERVEIS – THORACIC SURGERY 2012. A hotel voucher, stating the name and address of the hotel assigned, will be sent by email. Participants must bring this voucher to the hotel reception as proof of their reservation.

### Payment of acommodation \_\_\_\_\_

Payment in EURO (€) should be made in advance by one of the following means:

#### 1. Bank to bank transfer to ACTO SERVEIS in Euro

BANK: CAIXA D'ESTALVIS DE CATALUNYA  
ACCOUNT NUMBER: 2013.0196.84.0201513431  
IBAN: ES11 2013 0196 8402 0151 3431  
BIC: CESCESBBXXX  
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Clearly mention name and/or registration number with the bank transfer. Remittance should be free of charge to the recipient.

#### 2. Registration fees may be paid by credit card (ON-LINE REGISTRATION)



## SECOND International Joint Meeting on THORACIC SURGERY

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### Lower Cost Accommodation \_\_\_\_\_

Younger visitors and those looking for alternative forms of accommodation will find youth hostels, halls of residence, some of them open all year round. In short, accommodation for all tastes and at prices to suit every pocket.

Below you will find a list of the students' hall of residence. For more information about the city's hotels please check the website

[www.barcelonaturisme.com](http://www.barcelonaturisme.com) (where to sleep).

Contact them directly to consult prices for short stays and make the reservation.

### Cancellation Policy for Hotel Reservation \_\_\_\_\_

Cancellations must be notified in writing by mail, fax or e-mail to the Congress Office and are subject to the following conditions:

- Before 15 June 2012: 20% will be withheld as a fee for administration.
- Between 15 June and 15 September 2012: 50% of the reservation fees paid will be reimbursed.
- After 15 September 2012, no refunds will be issued.
- All reimbursements will be processed AFTER the Congress.

## ■ ■ City information ■ ■

Barcelona overlooks the Mediterranean and is located in a heavily populated area which is a hub of economic activity.

Barcelona enjoys a Mediterranean climate, with mild winters and warm summers. It is a coastal city and has over four kilometres of urban beaches and large areas of nearby forest. Although it is a large city, it is easy to get around on public transportation and on foot. You can reach any point in the city by metro, bus and taxi.

Barcelona is the capital of Catalonia. Its inhabitants are open and welcoming. The people of Barcelona speak Catalan, their own language, and Spanish. Many of them also understand a little English and French.

### Visa \_\_\_\_\_

Spain is part of the Schengen zone. This means that nationals from EU countries do not need a visa.

### Language \_\_\_\_\_

Most of Barcelona's inhabitants are bilingual and speak Catalan, their own language, and Spanish.

### Electricity \_\_\_\_\_

The voltage in Spain is 220 volts, 50 Hz. The plug types are C and F.

### Climate \_\_\_\_\_

The city has a typically Mediterranean climate and enjoys pleasant temperatures all the year round.

### Currency \_\_\_\_\_

The euro (€) is the official currency of the European Union and can be exchanged at savings banks and banks.

### Banks \_\_\_\_\_

Business hours differ between banks. Most banks are open from Monday to Friday from 08:15 to 14:15

### Customs \_\_\_\_\_

In Barcelona mealtimes are usually a little later than the rest of Europe. The city's shops have long opening hours.

### Shopping in Barcelona \_\_\_\_\_

Monday to Saturday, from 09:30 to 13:30 and from 16:30 to 20:00. Most of the department stores do not close at mid-day.

# SECOND International Joint Meeting on THORACIC SURGERY

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## ■ ■ Venue ■ ■



### How to get from Barcelona airport to the Meeting venue

Barcelona International Airport (airport code BCN) is located 12 km southwest of the city.

**By taxi:** TAXIS are available at an approximate cost of 35 € including the required supplements for leaving the airport and carrying luggage. They are yellow and black, and, when free, show a clearly visible green light on the roof of the vehicle.

**By bus:** **AEROBUS:** This special service is clearly signposted at the stops outside the terminal and it takes you to different parts of the city, the Plaza Catalunya stop is the closest to the Meeting Venue, 10 minutes walk approximately.

Monday to Saturday and public holidays: departures from airport, from 06:00 to 01:00; departures from Plaza de Catalunya, from 05:30 to 00:15. Buses run every 7 to 15 minutes, depending on the time of day.

For further information regarding timetables and fares, we recommend you visit the website: <http://www.emt-amb.com>.

Price: 5.30 € (Rates 2012)

**By train:** The station is located to the West of the terminal. Trains go to "Sants" Station and run approximately every 30 minutes to and from Barcelona airport to the city centre.

Length of journey: 17 minutes to Barcelona Sants station. Fare: 3.60 €.

Further information: [www.renfe.es](http://www.renfe.es).

From here you can take:

**Metro:** Take the green line metro (line 3) from "Sants Estació" to "Plaça Catalunya" Station (two stops). The rate for a single ticket is 2.00 €. Further information: [www.tmb.net](http://www.tmb.net).

**Bus:** Take bus number 43 and 17 which have stops in "Via Laietana". Buses run every 10-15 minutes. The rate for a single ticket is 2.00 €. Further information: [www.tmb.net](http://www.tmb.net).







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The Assessment of Teaching Activities Committee, Clinic Foundation-IDIBAPS

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■ ■ **TECHNICAL SECRETARIAT**

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