

Symposium de l'Institut de la Main et de l'Épaule

PARIS

SEPTEMBER

26-27

2025

40^{ÈME}
ANNIVERSAIRE

**40 YEARS BACK,
40 YEARS AHEAD:**
Future Technologies
in Upper Limb Surgery

President of honor:
Alain Gilbert

Scientific committee:
Caroline Leclercq
Frédéric Teboul
Philippe Valenti

Organization Committee:
Lorenzo Merlini
Nadine Sturbois-Nachef
Omar Boughebri
Jean-Gabriel Delvaque



symposium-institutdelamain.com

GENERAL ORGANIZATION

QUINZE MAI
CONCEPTEURS D'ÉVÉNEMENTS



WELCOME MESSAGES

On the occasion of the 40th anniversary of the Institut de la Main, it is our great pleasure to invite you to celebrate this event with us in Paris, on September 26-27, 2025.

Looking back to the last 40 years, and onwards to the 40 years to come, the theme of the Symposium will be Future Technologies in Hand and Upper Limb Surgery. Our world is changing fast, and so is our surgical practice. Come and discover all the future developments of Hand and Upper Limb Surgery: robotics, augmented and virtual reality, assisted surgery, tissue replacement, artificial intelligence, machine learning, bio-materials, virtual teaching ...

Mark your calendars, and let us know if you want to contribute to the scientific program. More to come soon !

Alain Gilbert
Caroline Leclercq
Philippe Valenti

*Past, present, and future Presidents
of the Institut de la Main et de l'Épaule*



INSTITUT DE LA MAIN

PRESIDENT OF HONOR:

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SCIENTIFIC COMMITTEE:

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Omar Boughebri
Jean-Gabriel Delvaque

INSTITUT DE LA MAIN:

Caroline Leclercq
Philippe Valenti
Mathilde Gras
Lorenzo Merlini
Ahlam Arnaout
Alain Iserin
Choukry Dib
Stéphane Guero
Omar Boughebri
Nadine Sturbois-Nachef
Jean-Noël Goubier
Frédéric Teboul
Raoul Tubiana †
Alain Gilbert
Christophe Mathoulin

FACULTY LIST

ARNAOUT Ahlam, France
ASZMANN Oskar - Austria
ATLAN Mickael - France
BAHM Jörg - Germany
BARRERA Miguel - Spain
BEGUÉ Thierry, France
BOUGHEBRI Omar, France
BRAGA-SILVA Jefferson - Brazil
CHEIKH Mohamed - France
DAVID Romain - France
DELVAQUE Jean-Gabriel, France
DESCAMPS Jules - France
DE SOUSA SANTOS Nathalie - France
DUMONTIER Christian - France
FITOUSSI Frank - France
FLURIN Pierre-Henri - France
GALLEGO Sabrina, Colombia
GARCIA Carlos-José - Brazil
GATIN Laure, France
GAUCI Marc-Olivier - France
GERBER Christian - Switzerland
GHANEM Diane - USA
GIELE Henk, United-Kingdom
GILBERT Alain - France

GOUBIER Jean-Noël - France
GRAS Mathilde, France
GUERO Stéphane - France
HAERLE Max - Germany
HU Jingwen - Ireland
JEHANNO Pascal - France
LECLERCQ Caroline - France
LIVERNEAUX Philippe - France
MARES Olivier - France
MASQUELET Alain-Charles - France
MERLE Michel - Luxembourg
MERLINI Lorenzo, France
OBERG Kerby - USA
ONCIU Crina - Romania
REIN Susanne - Germany
ROS Maxime - France
ROSS Duncan - USA
SCHWAB Martin - Switzerland
SEYROL Charles - France
SIMMS Ciaran - Ireland
SOBRERO Diego - France
STURBOIS-NACHEF Nadine - France
TEBOUL Frédéric - France
TOSI Daniele - Italy
VALENTI Philippe - France
VALBUENA Sebastian, Argentina
VANDENDRIES Christophe - France
VIEL Eric - France
WERTHEL Jean-David - France

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7:15 **Registration**

7:50-8:00 **Welcome / C. LECLERCQ, PH. VALENTI**

8:00-9:00 **Moderators: C. LECLERCQ, PH. VALENTI**

- History of the Institut de la Main / **A. GILBERT, R. LISFRANC**
- VR virtual reality/ AR augmented reality / MR mixed reality / **M. ROS**
- What will we be missing in 40 years? / **C. GERBER**
- Discussion

9:00-10:40 **REPLACING THE SURGEON'S HAND**

Moderators: C.J. GARCIA, C. DUMONTIER

Navigation robots

- History of Navigation in shoulder surgery / **P.H. FLURIN**
- Navigation robots / **J.D. WERTHEL**

Surgical robots in upper limb surgery

- Around the shoulder
- Surgical robotic tendon transfers around the shoulder / **C.J. GARCIA**
- Around the hand
- Robotic hand surgery: current insights and future directions / **P. LIVERNEAUX**
- Discussion
- In microsurgery
- Is there room for robotics in microsurgery (literature review) / **J. BRAGA-SILVA**
- Automatic micro-sutures: a step forward / **J.N. GOUBIER**
- Robots in hand and lymphatic microsurgery / **M. ATLAN**
- Discussion

10:40-11:10 **Coffee Break and Exhibition Visit**

11:10-12:10 **REPLACING THE SURGEON'S EYE (I)**

Moderators: F. FITOUSSI, L. MERLINI

Bone and muscle imaging:

- CT based volumetric assessment of rotator cuff muscles / **J.D. WERTHEL**
- Cutting guides: 3D Osteotomy planning / **PH. VALENTI**
- Clinical cases / **P. JEHANNO** supra-condylar / **C. LECLERCQ** distal radius

Joint and ligaments imaging:

- The future of wrist arthroscopy / **M. HAERLE**
- Discussion

12:10-12:25 **Former fellows'session: my most memorable moment at the Institut de la Main**

12:30-14:00 **Lunch break and Exhibition visit**

12:30-12:55 **Industry workshop**

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14:00-16:00 REPLACING HUMAN TISSUES

Moderators: J. BRAGA-SILVA, F. TEBOUL

Tissue regeneration:

- Historics of stem cells / C. ONCIU

Nerves:

- Historics: Repairing Nerve defects: past and perspectives / A. GILBERT
- Enhancing Nerve Regeneration: attempts and disappointments / M. MERLE
- Enhancing fiber regeneration in the injured spinal cord: From the bench to the first successful clinical trial / M. SCHWAB
- Discussion

Skin:

- Advances in artificial skin: clinical application to Epidermolysis Bullosa / S. GUERO
- Fingertip regeneration in Vertebrates: what is possible in humans? / K. OBERG
- 3D printing human tissues / TBC
- Discussion

Joint:

- Gleno-humeral osteoarthritis: can understanding etiology lead to preventive treatment? / C. GERBER

Allogenic exosomes

- Past, perspectives and future / D. ROSS
- Discussion

16:00 Fellows'session Prize Winner

16:05 Group Photo

16:10-16:40 Coffee Break and Exhibition Visit

16:40-17:10 Moderators: O. ASZMANN, N. STURBOIS-NACHEF

Hand transplants:

- State of the art / C. DUMONTIER
- The challenges of macrografts / P. JEHANNO
- Discussion

17:10-18:15 REPLACING THE TEACHERS

Moderators: T. BÉGUÉ, A. ARNAOUT

- 3D hand models / D. TOSI
- Virtual library / M. ROS
- New bibliographic tools / J. DESCAMPS
- How will we replace animal models? / F. FITOUSSI
- Discussion

20:30 GALA DINNER Pre registration required

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8:30-9:45

REPLACING THE SURGEON'S EYE (2)

Moderators: S. VALBUENA, M. GRAS

Clinical assessment

- Single camera method for quantifying upper limb movement
 - Overview of the technical tool / **C. SIMMS**
 - Application to the Upper Limb / **J. HU**

Connected loupes

- State of the art / **M.O. GAUCI**

Peripheral nerves imaging

- Advances in peripheral nerve imaging, current indications and protocols / **C. VANDENDRIES**
- AVATAR software to plan nerve microsurgery, and future indications / **F. TEBOUL, N. STURBOIS-NACHEF**
- Sensory nerves: analyzing sensory nerve endings / **S. REIN**
- Discussion
- Round table: Brachial plexus imaging: Why are we still unable to detect if a root is functional or not? / **Moderator: J.N. GOUBIER**
A. GILBERT, J. BAHM, J.N. GOUBIER, C. SEYROL, C. VANDENDRIES

9:45-10:15

Moderators: M. HAERLE, J.G. DELVAQUE

The future of echo-surgery / **O. MARES**

The « digital twin » / **M.O. GAUCI**

10:15-11:05

REPLACING HUMAN INTELLIGENCE

Moderators: J.D. WERTHEL, J. DESCAMPS

Lecture: Integrating AI in orthopedic care and surgery / **D. GHANEM**

- The smart OR / **M.O. GAUCI**
- ChatGPT earns American board certification in hand surgery / **D. GHANEM**
- Discussion

11:05-11:30

Coffee Break and Exhibition Visit

11:30-12:10

INNOVATIVE TREATMENTS OF PAIN

Moderators: M. MERLE, L. GATIN

- Neuro-modulation techniques for Upper Limb pain: present achievements, future perspectives / **M. BARRERA**
- Botulinum Toxin and pain: a promising perspective ? / **E. VIEL**
- Cryoneurolysis and pain / **R. DAVID**
- Discussion

12:10-12:30

Moderator: C. LECLERCQ

Conference / **A.C. MASQUELET**: 40 years against 400 years...

12:30-13:30

NEW CONCEPTS IN HUMANITARIAN SURGERY

Moderators: S. GALLEGO, S. GUERO

- Sustainable anesthesia and Green Hospital / **N. DE SOUSA SANTOS**
- Distant teaching platforms / **Ph. VALENTI**
- IA and humanitarian surgery / **D. SOBRERO**
- Discussion

THE BIONIC MAN ...

Moderators: H. GIELE, O. BOUGHEBRI

- Targeted muscle reinnervation for prosthetic control / **O. ASZMANN**
- Bionic limb prosthesis / **O. ASZMANN**
- Discussion

13:30-13:45

Meeting closure / **PH. VALENTI, C. LECLERCQ**

GALA DINNER

September, Friday
26th

Musée des Arts Forains

53 avenue des Terroirs de France,
75012 Paris
starting from 8:00 PM

*In this magical and timeless venue,
join us for a convivial moment
centered around the passion
that unites us.*

Pre registration required



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FFF

Fédération Française de Football
87 Boulevard de Grenelle,
75015 Paris, France



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