

**SEDE****I Portici Hotel**

Via dell'Indipendenza, 69  
40121 Bologna

**MODALITÀ DI PARTECIPAZIONE**

Questo evento formativo si terrà esclusivamente  
in forma residenziale

**ISCRIZIONI**

L'iscrizione al corso è gratuita, potrà avvenire  
esclusivamente attraverso procedura online sul nostro sito:  
[www.mitcongressi.it](http://www.mitcongressi.it) selezionando il corso dal catalogo.

**NON SARÀ GARANTITA LA POSSIBILITÀ DI ISCRIVERSI  
PRESSO LA SEDE CONGRESSUALE**

**SEGRETERIA ORGANIZZATIVA  
PROVIDER n. 1509**



**MI&T Centro Direzionale Bolomnia**  
Via Guelfa, 5 - 40138 Bologna  
[info@mitcongressi.it](mailto:info@mitcongressi.it)  
[www.mitcongressi.it](http://www.mitcongressi.it)

**FACULTY**

**Luca Aldrighetti** Milan  
**Francesco Ardito** Rome  
**Pedro Baptista** Zaragoza ES  
**Giammauro Berardi** Rome  
**Ugo Boggi** Pisa  
**Alberta Cappelli** Bologna  
**Matteo Cescon** Bologna  
**Umberto Cillo** Padua  
**Alessandro Cucchetti** Bologna  
**Luciano De Carlis** Milan  
**Francesco De Cobelli** Milan  
**Fabrizio Di Benedetto** Modena  
**Giorgio Ercolani** Forlì  
**Giuseppe Maria Ettore** Rome  
**Massimo Fedi** Pistoia  
**Alessandro Ferrero** Turin  
**Felice Giuliante** Rome  
**Gian Luca Grazi** Florence  
**Enrico Gringeri** Padua  
**Salvatore Gruttadauria** Palermo  
**Francesco Izzo** Naples  
**Elio Jovine** Bologna  
**Marcello Maestri** Pavia  
**Paolo Magistri** Modena  
**Vincenzo Mazzaferro** Milan  
**Riccardo Memeo** Bari  
**Federico Mocchegiani** Ancona  
**Cristina Mosconi** Bologna  
**Karl J. Oldhafer** Hamburg DE  
**Francesca Ratti** Milan  
**Matteo Ravaioli** Bologna  
**Renato Romagnoli** Turin  
**Fabrizio Romano** Milan  
**Gianluca Rompianesi** Napoli  
**Nadia Russolillo** Turin  
**Erik Schadde** Zurich CH  
**Matteo Serenari** Bologna  
**Carlo Sposito** Milan  
**Giuseppe Tisone** Rome  
**Guido Torzilli** Milan  
**Roberto Troisi** Naples  
**Giovanni Vennarecci** Naples  
**Marco Vivarelli** Ancona  
**Giacomo Zanus** Padua



**I GROWtoH**

Italian Group of Regenerative and  
Occlusive Worldwide-used  
Techniques Of hepatic Hypertrophy

**1st I GROWtoH meeting**

# LIVER REGENERATION AND HYPERTROPHY TECHNIQUES IN LIVER SURGERY: CLINICAL AND BIOLOGICAL INSIGHTS OF AN EVOLVING SCENARIO

**JANUARY 25, 2024 BOLOGNA  
I PORTICI HOTEL**

MEETING CHAIRS:

**ELIO JOVINE, LUCA ALDRIGHETTI**

SCIENTIFIC COMMITTEE:

**MATTEO SERENARI, FRANCESCA RATTI**

Liver surgery is the mainstay treatment of many primary and secondary liver tumors and has become increasingly safer due to technical, technological and perioperative advances. In this scenario, patient's condition and characteristics of the future liver remnant, including volume and functional reserve, may determine the risk of post-hepatectomy liver failure which still remains the most severe and potentially life-threatening complication after major liver surgery. To minimize the risk of liver failure and expand the pool of potential candidates to curative treatments, radiological (portal vein embolization, venous deprivation, radioembolization) and surgical (two stage hepatectomy and ALPPS) techniques have been implemented over the years to induce hypertrophy of the remnant liver. The complex mechanism of liver regeneration requires dedicated and multidisciplinary expertise and specific studies to understand, predict and stratify the risk of developing complications and describe vascular and parenchymal changes occurring after hypertrophy techniques. A better understanding of the relationship between volume and function would also be necessary to improve preoperative diagnostics, assessment of dropout risk and postoperative course. During the meeting in Bologna, clinical and biological insights on liver regeneration in the setting of liver surgery will be provided within a multidisciplinary perspective, together with a glance on the future of minimally-invasive techniques and transplantation. Real life situations will be presented and discussed in a dynamic debate among specialists. Recommendations from experts in the field will be disclosed as the final result of a national position based on scientific evidences, thus made promptly available for clinical use. Finally, aims, developments and timelines of the prospective national Registry will be presented.

8.30 **Introduction and welcome address**  
Elio Jovine & Luca Aldrighetti

**SESSION I**  
Moderators  
Matteo Cescon, Felice Giuliani

9.00 **Moving Prometheus myth into clinical practice. An overview of technical approaches**  
Karl J. Oldhafer

Introduced by Elio Jovine

9.30 **Radiological approaches for PVE: state of the art**  
Cristina Mosconi

9.45 **Radiological approaches for HVD: open issues and controversies**  
Francesco De Cobelli

10.00 **Postoperative outcomes: the issues of liver failure and drop out**  
Francesco Ardito

10.15 **Minimally-invasive surgery and hypertrophy techniques**  
Francesca Ratti

10.30 **Efficacy and Safety of Radio-embolization to induce hypertrophy and to treat liver malignancies**  
Alberta Cappelli

10.45 **Discussion and Recommendations from the Expert Panel (Part 1)**

Discussants:  
Giuseppe Tisone, Alessandro Ferrero, Giovanni Vennarecci, Alessandro Cucchetti, Marco Vivarelli, Ugo Boggi

11.15 Coffee break

**SESSION II**  
Moderators  
Giuseppe Maria Ettore, Umberto Cillo

11.30 **Clinical cases Colorectal liver metastases**  
Nadia Russolillo vs. Giammauro Berardi

**Intrahepatic and perihilar cholangiocarcinoma**  
Carlo Sposito vs. Federico Mocchegiani

**Hepatocellular carcinoma**  
Paolo Magistri vs. Gianluca Rompianesi

12.30 **Discussion and Recommendations from the Expert Panel (Part 2)**

Discussants:  
Francesco Izzo, Gian Luca Grazi, Fabrizio Romano, Guido Torzilli, Riccardo Memeo, Salvatore Gruttadauria, Fabrizio Di Benedetto, Matteo Ravaioli

13.00 Lunch

**SESSION III:**  
Moderators  
Vincenzo Mazzaferro, Roberto Troisi

14.00 Lecture  
**Regenerative liver surgery: do patients need it?**  
Erik Schadde

Introduced by Luca Aldrighetti

14.30 **Future directions of regenerative hepatology**  
Pedro Baptista

14.45 **Importance of functional evaluation in liver surgery**  
Matteo Serenari

15.00 **Interplay between hypertrophy techniques and liver transplantation**  
Enrico Gringeri

15.15 **Discussion and Recommendations from the Expert Panel (Part 3)**

Discussants:  
Renato Romagnoli, Luciano De Carlis, Giorgio Ercolani, Marcello Maestri, Massimo Fedi, Giacomo Zanus

**I GROW....Time**

15.50 **Building a national Registry: the background and structure**  
Francesca Ratti & Matteo Serenari

16.00 **Building a national Registry: the rationale and future programs**  
Elio Jovine & Luca Aldrighetti

16.10 **Conclusion**