

**The Physiology Course Japan****2<sup>nd</sup> Edition – 18<sup>th</sup> July 2025****Directors**

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Gifu Heart Center

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**Faculty**

Nobuhiro Tanaka MD, PhD

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Tohoku University

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Sapporo Cardiovascular Center

Showa University

Wakayama Medical University

NTT Medical Center Tokyo

Chiba University

**Live Case Operators**

Tetsuya Amano MD, PhD

Hirohiko Ando MD, PhD

Hirofumi Ohashi MD, PhD

Aichi Medical University

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**Objectives**

This course highlights how foundational discoveries in coronary physiology shape modern clinical practice.

We revisit key physiological concepts, tracing their evolution into contemporary diagnostics and interventions. The core principle: "Treat the patient, not the indices." A holistic approach ensures that treatments target the root cause of ischemia rather than relying solely on measurements.

Key Question: "If You Can't Measure It, Should You Treat It?"

**Venue**

Osaka International Convention Center, 8F 801 & 802

**Friday 18<sup>th</sup> July 2025**  
**Scientific Programme**

08:00 Registration

08:15 Welcome

Hitoshi Matsuo  
Bernard De Bruyne  
Carlos Collet**The Epicardial Arteries - The Foundations**

Chairs: Nobuhiro Tanaka, Takashi Akasaka &amp; Hitoshi Matsuo

08:30 Coronary Physiology - From diagnosis to prognosis

Carlos Collet

09:00 Key concepts to understand coronary physiology

Bernard De Bruyne

09:30 Rest or stress: still a relevant question?

Koshiro Sakai

10:00 The physiology toolkit

Takayuki Warisawa

10:30 Tea &amp; networking

**The Epicardial Arteries - Practicalities**

Chairs: Carlos Collet &amp; Tetsuya Amano

11:00 PPG - Expanding physiology for prediction

Carlos Collet

11:30 Serial lesions interaction

Yasutsugu Shiono

12:00 Physiology to Optimise PCI

Yuichi Saito

12:30 Avoiding Pitfalls - Tips and Tricks

Bernard De Bruyne

13:00 Group Photo

13:05 Lunch

**Broadcast of CVIT symposium**

Chairs: Hiromasa Otake &amp; Ken Kozuma

14:10 PPG - The 2D FFR

Carlos Collet

14:40 Absolute Coronary Flow and MRR

Bernard De Bruyne

15:10 Tea and networking

### **Diving into the Microcirculation**

Chairs: Kenichi Tsujita, Tsunekazu Kakuta & Shoichi Kuramitsu

15:20 Bolus Thermodilution and IMR

Takuya Mizukami

15:50 Epicardial spasm: recognition and management

Jun Takahashi

### **16:20 Live Case**

Chairs: Hitoshi Matsuo, Carlos Collet & Bernard De Bruyne

Absolute Flow from Aichi Medical University

Tetsuya Amano  
Hirohiko Ando  
Hirofumi Ohashi

16:50 Future of Coronary Physiology

Carlos Collet

17:20 Closing remarks

Hitoshi Matsuo

### **17:30 Networking Dinner**