

Bio-sketch 2022 Bolotin

Prof. Gil Bolotin, M.D., Ph.D.

Director of Cardiac Surgery Department

Rambam Medical Center, Haifa, Israel

- Prof. Bolotin received his M.D. in 1993 from the Hebrew University - Hadassah Medical School in Jerusalem, Israel
- Prof. Bolotin received his Ph.D. in 2001 from Academic Hospital Maastricht, The Netherlands (thesis: Surgical Options to Treat Heart Failure Patients).
- He performed his residency in the Department of Cardio Thoracic Surgery at Carmel Medical Center, Haifa, Israel.
- Following his graduation, Prof. Bolotin completed several fellowships:
 - Mitral and Robotic Fellowship (2002-2003), Department of Surgery, Brody School of Medicine, East Carolina University, Greenville, NC, USA
 - Visiting Professor (2003-2004), Department of Cardiac Surgery, University of Chicago, Chicago, Illinois, USA. Experience in advanced cardiac surgery, heart transplants, assist devices
 - Visiting Professor (2006-2007), Department of Cardiothoracic Surgery, Academic Hospital Maastricht, Maastricht, the Netherlands. Experience in atrial fibrillation and minimally invasive cardiac surgery.

In 2007, Prof. Bolotin was appointed Director of the Department of Cardiac Surgery, Rambam Medical Center.

In 2015, he was appointed Clinical Associate Professor at the Ruth & Bruce Rappaport Faculty of Medicine, Technion-Institute of Technology, Haifa, Israel.

In addition, Prof. Bolotin was the Chairman of Israel Society of Cardiothoracic Surgery (2014-2017) and is a member of international professional cardiothoracic societies - European Society of Cardiothoracic Surgery and World Society of Cardiothoracic Surgeons.

Prof. Bolotin has published over 100 publications in peer-reviewed journals and book chapters, and has presented at numerous international professional meetings.

Prof. Bolotin has extensive teaching experience in national and international cardiothoracic surgery courses.

From the onset of his medical career, Prof. Bolotin was deeply interested in medical devices from engineering design through *in vitro*, *in vivo* and clinical studies. His research interests have since expanded to span the entire range of cardiothoracic surgery, with a special interest in minimally invasive valve surgery, transcatheter valve implantation, atrial fibrillation, robotic cardiac surgery and other innovations in cardiac surgery.

Gil Bolotin - TECHNION – RUTH & BRUCE RAPPAPORT FACULTY OF MEDICINE

1. ACADEMIC DEGREES

2001, PhD, Surgical Options to Treat Heart Failure Patients, Maastricht, The Netherlands

1993 ,MD, Hebrew University of Jerusalem - Hadassah Medical School, Jerusalem, Israel
(graduated *cum laude* in fifth year)

1988 ,BMedSc, Ben-Gurion Medical School, Israel (graduated *cum laude* in first year)

2. ACADEMIC APPOINTMENTS

2015 - Present, Clinical Associate Professor, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel

2009 – 2015, Assistant Professor, Rappaport Faculty of Medicine, Technion – Israel Institute of Technology, Haifa, Israel

2004 – 2008, Lecturer, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel

3. PROFESSIONAL EXPERIENCE

2007 to present, Director, Department of Cardiac Surgery, Rambam Health Care Campus, Haifa, Israel

2006 – 2007, Visiting Professor, Department of Cardiothoracic Surgery, Academic Hospital Maastricht, Maastricht, The Netherlands

2004 – 2006, Consultant, Department of Cardiothoracic Surgery, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel

2003 – 2004, Visiting Professor, Advanced Cardiac Surgery, Heart Transplant, Assist Devices, Atrial Fibrillation, Minimally Invasive Cardiac Surgery, Section of Cardiac and Thoracic Surgery, University of Chicago, Chicago, Illinois, USA

2002 – 2003, Mitral and Robotic Fellowship, Department of Surgery, Brody School of Medicine, East Carolina University, Greenville, NC, USA

2000 – 2002, Consultant, Department of Cardiothoracic Surgery, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel

3-8/2000, Consultant, Department of Cardiothoracic Surgery, Carmel Medical Center, Haifa, Israel

1995, Basic Science, Department of Cardiology CARIM, Academic Hospital Maastricht, Maastricht, The Netherlands.

1993 – 1999, Resident, Department of Cardiothoracic Surgery, Carmel Medical Center, Haifa, Israel

1992 – 1993, Internship, Sheba Medical Center, Tel Aviv, Israel

4. RESEARCH INTERESTS

Currently, the Department of Cardiac Surgery is engaged in both basic and clinical research.

I. The basic science line of investigation includes the following projects:

- A. Haptoglobin genotype as a prognostic factor in patients undergoing a CABG operation.
- B. Prospective exploratory study to characterize immunological response profiles after cardiac surgery.
- C. Development and validation of cardiovascular medical devices from the stage of engineering design to *in vitro*, *in vivo* and clinical studies.
- D. A novel amiodarone-eluting biological glue for the prevention of postoperative atrial fibrillation: first animal trial.
- E. The role of AP-1 transcription factor in cardiac remodeling in animal models.

II. The clinical line of investigation includes the following projects:

- A. A novel emboli protection cannula during cardiac surgery: first clinical trial.
- B. Numerical model of aortic cannula hemodynamics for evaluation of risk for atheroembolism.