Contents

Part I Anatomy of the Cardiac Lymphatic System

1 A General Outline of the Cardiac Lymphatic System .................................. 3
   Marios Loukas, Sameer Shah, Shivayogi Bhusnurmath,
   Bharti Shivayogi Bhusnurmath, and R. Shane Tubbs

2 Development and Patterning of the Cardiac Lymphatic Network.... 17
   Jörg Wilting and Jörg Männer

Part II The Cardiac Lymphatics and Heart Disease

3 The Link Between Lymphatic Obstruction
   and Congenital Heart Disease............................................................... 35
   Manish Bansal

4 The Role of Lymphatics in Atherogenesis, Myocardial Infarction,
   Congestive Heart Failure, and Cardiac Transplantation................. 45
   Shin Lin and Stanley G. Rockson

5 The Lymphatics in Normal and Pathological Heart Valves.............. 63
   Ivana Kholová, Galina Dragneva, and Seppo Ylä-Herttuala

6 Therapeutic Applications Targeting the Cardiac Lymphatics
   in Heart Disease................................................................. 73
   Jae-Hyeong Park and Jin-Ok Jeong

7 Imaging the Lymphatic System in Heart Transplantation
   and Its Immunological Implications........................................... 87
   Kathryn Brown, Lindsey A. Edwards, and Wilson Wong
Part III  Cardiac Lymphatic Signaling

8  Tie Receptor Signaling in Cardiac Lymphangiogenesis .................. 107
   Xianghu Qu and H. Scott Baldwin

9  VEGF Receptor Signaling in the Cardiac Lymphatics .................. 125
   Alexey Dashkevich, Karl B. Lemström, and Antti I. Nykänen

10 Hypoxia and the Cardiac Lymphatic System ......................... 145
   Todd R. Wuest and P. Charles Lin

11 The Potential of the Epicardium to Act as a Source
    of Lymphatic Cells ........................................................... 161
    Linda Klotz and Paul Riley

Index ....................................................................................... 183
The Cardiac Lymphatic System
An Overview
Karunamuni, G. (Ed.)
2013, X, 184 p., Hardcover
ISBN: 978-1-4614-6773-1