

- ・ 一般に認識が低いため、HCM、DCM と診断されている可能性がある。また、臨床症状発現前には見逃されている可能性も高い。診断機器の進歩と本疾患の存在認識により診断症例数が増加する可能性が高い。
- ・ 診断基準が明確でない。しかし明らかな 1 疾患群として分類すべきであると思われる。
- ・ 小児科からの連携が十分にできていない。小児例との差異も明確でない。
- ・ 病因（胎生期の心負荷、遺伝形式、遺伝子異常など）が十分に解明されていない。
- ・ フォローアップの方法、治療法が確立されていない。

#### 調査予定

- ・ 各施設で本症例の診断例、経験例がどの位あるか初期調査（Fax または郵送）
- ・ それをもとに臨床像をアンケート調査（郵送）
- ・ 予後調査

**The International Symposium of Cardiology Frontiers:  
Cardiomyopathy and Heart Failure 2003**

# **Program and Abstracts**

Main Theme

**“Cardiac Hypertrophy to Heart Failure”**

■ **Dates:** *October 17 (Fri), 18 (Sat), 2003*

■ **Venue:** *17 (Fri)*

JR TOWER HOTEL NIKKO SAPPORO

Nishi 2, Kita 5, Chuo-ku, Sapporo, Hokkaido

060-0005, Japan

TEL: +81-11-251-2222 FAX: +81-11-251-6370

*18 (Sat)*

SAPPORO CONVENTION CENTER

6-1, Higashisapporo, Shiroishi-ku, Sapporo, Hokkaido

003-0006, Japan

TEL: +81-11-817-1010 FAX: +81-11-820-4300

■ **President:** **Akira Kitabatake, M.D., Ph.D.**

Department of Cardiovascular Medicine

Hokkaido University Graduate School of Medicine

# **The International Symposium of Cardiology Frontiers: Cardiomyopathy and Heart Failure 2003**

**Hosted by**

**The Organizing Committee for the International Symposium of Cardiology Frontiers  
Japan Intractable Diseases Research Foundation**

**President: Akira Kitabatake, M.D., Ph.D.**

## **Organizing Committee (Alphabetical order)**

Hisayoshi Fujiwara (Gifu University)  
Junichi Yoshikawa (Osaka City University)  
Iwao Yamaguchi (Tsukuba University)  
Keiichi Fukuda (Keio University)  
Michiaki Hiroe (International Medical Center of Japan)  
Masatsugu Hori (Osaka University)  
Tsutomu Imaizumi (Kurume University)  
Mitsuaki Isobe (Tokyo Medical and Dental University)  
Tohru Izumi (Kitasato University)  
Sachio Kawai (Juntendo University)  
Masatoshi Kawana (Tokyo Women's Medical University)  
Akinori Kimura (Tokyo Medical and Dental University)  
Akira Kitabatake (Hokkaido University)  
Masafumi Kitakaze (National Cardiovascular Center)  
Yasushi Kitaura (Osaka Medical College)  
Issei Komuro (Chiba University)  
Akira Matsumori (Kyoto University)  
Masunori Matsuzaki (Yamaguchi University)  
Kunio Miyatake (National Cardiovascular Center)  
Ryozo Nagai (Tokyo University)  
Satoshi Ogawa (Keio University)  
Hiroshi Okamoto (Hokkaido University)  
Teruo Okano (Tokyo Women's Medical University)  
Toshio Shimada (Shimane Medical University)  
Fumimaro Takaku (Jichi Medical School)  
Nobuakira Takeda (Jikei University)  
Akira Takeshita (Kyusyu University)  
Masashi Tanaka (Gifu International Institute of Biotechnology)  
Chuwa Tei (Kagoshima University)  
Hitonobu Tomoike (National Cardiovascular Center)  
Teruhiko Toyo-oka (Tokyo University)  
Mitsuhiro Yokoyama (Kobe University)  
Chikao Yutani (National Cardiovascular Center)

**Local Advisory Committee**

Hideaki Kawaguchi, Nagara Tamaki, Keisyu Yasuda, Hiroshi Okamoto, Ichiro Sakuma, Satoshi Fujii, Kazushi Urasawa, Kazuya Yonezawa, Naomasa Makita, Hisao Onozuka, Hisashi Yokoshiki, Koji Sasaki, Kaoru Komuro, Noriaki Kishimoto (Hokkaido University Graduate School of Medicine)

**Secretariat**

Yutaka Matsui, Daisuke Goto, Masatoshi Akiño, Satoko Abe, Tamami Cervantes (Hokkaido University Graduate School of Medicine)

## WELCOME ADDRESS

*Dear Colleagues:*

We cordially welcome you to the International Symposium of Cardiology Frontiers: Cardiomyopathy and Heart Failure 2003, October 17 and 18, 2003.

This symposium is sponsored and organized by Japan Intractable Diseases Research Foundation and the Ministry Health, Labor and Welfare, Japan.

The purpose for this symposium is to focus on integrating scientific knowledge about pathophysiological mechanism and clinical status in cardiomyopathy and heart failure.

The symposium will provide information about issues relating to diagnosing and treating patients with cardiomyopathy and heart failure, such as immuno-modulation therapy and cell transplantation.

We believe you will find the International Symposium of Cardiology Frontiers: Cardiomyopathy and Heart Failure 2003 an excellent educational and scientific experience and a great opportunity to meet and discuss important issues with other scientists from Asia, Europe, North America and elsewhere.

We expect that this symposium will address the magnitude of this significance, identifying alternative treatments for cardiomyopathy and heart failure relating pathophysiological mechanism and clinical status. We sincerely hope that you will find valuable presentations and will enjoy the friendly academic atmosphere in Sapporo.



**Akira Kitabatake, President**  
**The International Symposium of Cardiology Frontiers:**  
**Cardiomyopathy and Heart Failure 2003**

## GENERAL INFORMATION

### Official Language

The official language is English. No simultaneous translation will be provided.

### Dates

October 17 (Fri) -18 (Sat), 2003

### Venue

*17 (Fri)*

JR Tower Hotel Nikko Sapporo  
Nishi 2, Kita 5, Chuo-ku, Sapporo, 060-0005, Japan  
TEL: +81-11-251-2222 FAX: +81-11-251-6370

*18 (Sat)*

Sapporo Convention Center  
6-1, Higashisapporo, Shiroishi-ku, Sapporo, 003-0006, Japan  
TEL: +81-11-817-1010 FAX: +81-11-820-4300

### Registration Desk

Registration desk will be open from 11:00 am on October 17 and from 8:00 am on October 18. You will be asked to fill in your name and address on the registration form and submit it to the registration desk indicated below.

October 17 (Fri) Lobby on the 36th floor of JR Tower Hotel Nikko Sapporo  
October 18 (Sat) Lobby in front of Medium Hall in Sapporo Convention Center

### Registration Fee

15,000 yen

\*The registration fee includes charges for Welcome Party and Lunch (Obento) on October 18.

### Venue Information

- Cloak rooms:
  - October 17 (Fri) Lobby on the 1st floor of JR Tower Hotel Nikko Sapporo
  - October 18 (Sat) Lobby on the 1st floor of Sapporo Convention Center
- There is no paging of personal messages either over the loudspeakers or projected on the screens in session rooms. If you would like to leave a message, please contact the registration desk.
- Smoking is strictly prohibited in the Symposium area.

### Contact Information during the Symposium

JR TOWER HOTEL NIKKO SAPPORO (October 17 (Fri))  
TEL: +81-11-251-2222 FAX: +81-11-251-6370  
SAPPORO CONVENTION CENTER (October 18 (Sat))  
TEL: +81-11-817-1010 FAX: +81-11-820-4300

# TIME TABLE

	17 (FRI) JR TOWER HOTEL	18 (SAT) JR TOWER HOTEL	18 (SAT) SAPPORO CONVENTION CENTER	
	36F Room "Taiyo"	36F Room "Taiyo"	(Conference Room) Mid Sized Hall	(Poster & Exhibition Room) Mid Sized Hall
7:00				
8:00		日本循環器学会 心筋炎ガイドライン作成班 班会議	PC Registration	Set-Up Poster
9:00				
10:00			<b>Plenary Session&lt; 4 &gt;</b> Inflammatory Cardiomyopathy and Immunological Intervention	Poster Display
11:00	PC Registration			
12:00	厚生労働省特発性心筋症 調査研究班 班会議		<b>Plenary Session&lt; 5 &gt;</b> Molecular Mechanism of Cardiomyopathy and Heart Failure	
13:00	Opening Ceremony		Lunch Time	Free Discussion
14:00	<b>Plenary Session&lt; 1 &gt;</b> Rebuilding the Myocardium: Cell Implantation		<b>Plenary Session&lt; 6 &gt;</b> Genetic Background of Cardiomyopathy and Heart Failure	Poster Display
15:00				
16:00	<b>Plenary Session&lt; 2 &gt;</b> Clinical Points of View: Definition and Classification of Cardiomyopathy		<b>Plenary Session&lt; 7 &gt;</b> A New Challenge of Gene and Pharmacological Therapy	Tear-Down Poster
17:00	<b>Plenary Session&lt; 3 &gt;</b> Molecular Mechanism of Cardiomyopathy and Heart Failure			
18:00			Myocarditis Network Conference*	
19:00	Welcome Party			
20:00				

☐ : Related Meetings

\*心筋炎ネットワーク会議

PROGRAM

---





**Plenary Session**

TAIYO, JR Tower Hotel Nikko Sapporo 13:10 – 15:30

**<1> Rebuilding the Myocardium: Cell Implantation**

Chairpersons:

Michael D. Schneider (Baylor College of Medicine, Houston, USA)

Hisayoshi Fujiwara (Gifu University School of Medicine, Japan)

**PS-1-I Keynote: Heart-Derived Progenitor Cells for Cardiac Repair**

Michael D. Schneider (Center for Cardiovascular Development Baylor College of Medicine, Houston, USA)

**PS-1-II Combination With Cardiotrophin-1 Gene Transfection Enhanced the Protective Effect of Myoblast Transplantation on the Transition to Heart Failure in Dahl Rats**

Ryuji Toh, Mitsuhiro Yokoyama (Division of Cardiovascular and Respiratory Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine, Japan)

**PS-1-III Regeneration Therapy Against Dilated Cardiomyopathy**

Genzou Takemura, Hisayoshi Fujiwara (Second Department of Internal Medicine, Gifu University School of Medicine, Japan)

**PS-1-IV Endogenous Bone Marrow-Derived Stem Cells Reconstituted Myocardium Only in the Small Proportion After Acute Myocardial Infarction**

Shinya Fukuhara, Chikao Yutani (Department of Pathology, National Cardiovascular Center, Japan)

**PS-1-V Myocardial Tissue Reconstruction by Cell Sheet Engineering**

Tatsuya Shimizu, Teruo Okano (Institute of Advanced Biomedical Engineering and Science, Tokyo Women's Medical University, Japan)

**PS-1-VI G-CSF and GM-CSF Differentially Affect the Regeneration of Infarcted Myocardium by Bone Marrow-derived Cells**

Keiichi Fukuda (Institute for Advanced Cardiac Therapeutics, Keio University School of Medicine, Japan)

**PS-1-VII Gene Therapy to Induce Cardiac Regeneration**

Issei Komuro (Department of Cardiovascular Science and Medicine, Chiba University Graduate School of Medicine, Japan)

**PS-1-VIII Effects of Cellular Cardiomyoplasty on Ventricular Remodeling Assessed by Doppler-echocardiography and Topographic Immunohistochemistry**

Minoru Yoshiyama, Junichi Yoshikawa (Department of Internal Medicine, Osaka City University Medical School, Japan)

**PS-1-IX Regeneration of Cardiac Myocytes by Cell Cycle Regulators**

Hiroshi Ito (Akita University, School of Medicine, Japan)

Mitsuaki Isobe (Department of Cardiovascular Medicine, Tokyo Medical and Dental University, Japan)

---

## October 17 (Fri.) PM

---

### Plenary Session

TAIYO, JR Tower Hotel Nikko Sapporo 15:30 – 16:25

#### <2> Clinical Points of View: Definision and Classification of Cardiomyopathy

Chairperson:

Mitsuhiro Yokoyama (Kobe University Graduate School of Medicine, Japan)

**PS-2-I Long-Term Evaluation of Patients With Hypertrophic Obstructive Cardiomyopathy**

Masatoshi Kawana (Department of Cardiology, The Heart Institute of Japan, Tokyo Women's Medical University, Japan)

**PS-2-II Keynote: Changing Concepts on Prevalence, Phenotypic Expression and Management of Hypertrophic Cardiomyopathy**

Barry J. Maron (The Hypertrophic Cardiomyopathy Center, Minneapolis Heart Institute Foundation, USA)

---

## October 17 (Fri.) PM

---

### Plenary Session

TAIYO, JR Tower Hotel Nikko Sapporo 16:25 – 17:05

#### <3> Molecular Mechanisms of Cardiomyopathy and Heart Failure

Chairperson:

Tsutomu Imaizumi (Kurume University School of Medicine, Japan)

**PS-3 Keynote: Genetic and Cellular Pathways in Heart Failure: Towards Biologically Targeted Therapy**

Kenneth R. Chien (Institute of Molecular Medicine, University of California San Diego, USA)

## October 18 (Sat.) AM

### Plenary Session

Conference Room, Mid-Sized Hall, Sapporo Convention Center 9:00 – 10:50

#### <4> Inflammatory Cardiomyopathy and Immunological Intervention

Chairpersons:

Tohru Izumi (Kitasato University School of Medicine, Japan)

Akira Matsumori (Kyoto University Graduate School of Medicine, Japan)

- PS-4-I      Keynote: From Myocarditis to Cardiomyopathy — Understanding the Gene-Environment Interaction that Leads to the Phenotype of Heart Failure**  
Peter Liu (Heart & Stroke / Richard Lewar Centre of Excellence, University of Toronto, Canada)
- PS-4-II      The Mammalian Target of Rapamycin (mTOR): a New Molecular Target for Heart Failure**  
Tetsuo Shioi, Tohru Izumi (Department of Internal Medicine and Cardiology, Kitasato University School of Medicine, Japan)
- PS-4-III     Adenovirus-mediated Gene Transfer of ICOSlg Fusion Protein Ameliorates Ongoing Experimental Autoimmune Myocarditis**  
Hiroshi Okamoto, Akira Kitabatake (Department of Cardiovascular Medicine, Hokkaido University School of Medicine, Japan)
- PS-4-IV     Autoantibodies Against  $\beta$ 1-Adrenergic Receptors in Patients With Idiopathic Dilated Cardiomyopathy**  
Tsutomu Yoshikawa, Satoshi Ogawa (Cardiology Division, Department of Medicine, Keio University School of Medicine, Japan)
- PS-4-V      Roles of Costimulatory Molecules in the Development of Murine Acute Myocarditis Caused by Coxsackievirus B3**  
Yoshinori Seko, Ryoza Nagai (Department of Cardiovascular Medicine, Graduate School of Medicine, University of Tokyo, Japan)
- PS-4-VI     Hepatitis C Virus and Inflammatory Mediators in Myocarditis and Cardiomyopathies**  
Akira Matsumori (Department of Cardiovascular Medicine, Kyoto University Graduate School of Medicine, Japan)
- PS-4-VII    The Pivotal Link Between Hepatitis C Virus Infection and Myocardial Damage in Patients With End Stage Renal Failure**  
Toshio Shimada (Division of Cardiovascular Medicine, Department of Internal Medicine, Shimane Medical University, Japan)

October 18 (Sat.) AM

## Plenary Session

Conference Room, Mid-Sized Hall, Sapporo Convention Center 10:50 – 12:40

### <5> Molecular Mechanisms of Cardiomyopathy and Heart Failure

Chairpersons:

Leslie A. Leinwand (University of Colorado at Boulder, USA)

Masatsugu Hori (Osaka University Graduate School of Medicine, Japan)

- PS-5-I Keynote: Molecular Mechanisms of Hypertrophic Cardiomyopathy**  
Leslie A. Leinwand (Department of Molecular, Cellular, and Developmental Biology, University of Colorado at Boulder, USA)
- PS-5-II The Role of Mitogen-Activated Protein Kinase Cascade in the Transition to Heart Failure**  
Kinya Otsu, Masatsugu Hori (Osaka University Graduate School of Medicine, Japan)
- PS-5-III Role of Early Inflammatory Changes in Cardiac Remodeling and Diastolic Dysfunction in Hypertensive Rat Heart**  
Hisashi Kai, Tsutomu Imaizumi (Department of Internal Medicine III, Kurume University School of Medicine, Japan)
- PS-5-IV Selective Translocation and Cleavage of Dystrophin in Cardiomyocytes and Increased Sarcolemmal Fragility as a Final Common Pathway to Progress Heart Failure in Both the Hereditary and Acquired Origins**  
Teruhiko Toyo-oka (Department of Pathophysiology and Internal Medicine, University of Tokyo, Japan)
- PS-5-V Activation of the Laminin Gamma 1 Chain Gene Promoter Through the BCN-1 Element**  
Hideaki Suzuki, Nobuakira Takeda (Department of General Medicine, Aoto Hospital, Jikei University School of Medicine, Japan)
- PS-5-VI Comparison of the Prevalence of Viral Infection in the Myocardium of U.S. and Japanese Patients With End-Stage Idiopathic Dilated Cardiomyopathy**  
Shigekazu Fujioka, Yasushi Kitaura (The Third Division of Internal Medicine, Osaka Medical College, Japan)
- PS-5-VII The Role of Extracellular Matrix in the Development of Cardiac Remodeling**  
Kyoko Imanaka-Yoshida, Michiaki Hiroe (Department of Pathology, Mie University School of Medicine, Japan)

October 18 (Sat.) PM

---

## Plenary Session

Conference Room, Mid-Sized Hall, Sapporo Convention Center 14:00 – 15:10

---

### <6> Genetic Background of Cardiomyopathy and Heart Failure

Chairpersons:

Jeffrey A. Towbin (Baylor College of Medicine, Houston, USA)

Akinori Kimura (Medical Research Institute, Tokyo Medical and Dental University, Japan)

**PS-6-I      Keynote: Advances in the Genetics of Hypertrophic Cardiomyopathy: Implications for Understanding Pathogenesis and Impact on Clinical Management**

W.J. McKenna (The Heart Hospital, London, UK)

**PS-6-II      Keynote: Genetics of Dilated Cardiomyopathy**

Jeffrey A. Towbin (Pediatric Cardiology and Molecular & Human Genetics; Texas Children's Hospital, Baylor College of Medicine, Houston, Texas, USA)

**PS-6-III     Novel Molecular Etiology of Hypertrophic Cardiomyopathy**

Akinori Kimura (Department of Molecular Pathogenesis, Medical Research Institute, Tokyo Medical and Dental University, Japan)

**PS-6-IV     Novel Strategies to Find the New Pathophysiology or Treatment of Chronic Heart Failure: The Molecular Analysis Using DNA Array and SNP or the Data Mining Method Using Medical Records**

Masafumi Kitakaze (Cardiovascular Division, National Cardiovascular Center, Suita, Japan)

October 18 (Sat.) PM

## Plenary Session

Conference Room, Mid-Sized Hall, Sapporo Convention Center 15:10 – 16:25

### <7> A New Challenge of Gene and Pharmacological Therapy

Chairpersons:

W.J. McKenna (The Heart Hospital, London, UK)

Issei Komuro (Chiba University Graduate School of Medicine, Japan)

- PS-7-I      Stabilization of Ryanodine Receptor as a New Therapeutic Strategy Against Heart Failure**  
Masafumi Yano, Masunori Matsuzaki (Department of Cardiovascular Medicine, Yamaguchi University, Japan)
- PS-7-II      NF- $\kappa$ B as a New Therapeutic Target for Cardiac Remodeling**  
Toru Kubota, Akira Takeshita (Department of Cardiovascular Medicine, Kyushu University Graduate School of Medical Sciences, Japan)
- PS-7-III     A New Challenge of Gene and Enzyme Replacement Therapy for Cardiac Fabry Disease**  
Toshihiro Takenaka, Shinichi Minagoe, Chuwa Tei (Department of Cardiovascular, Respiratory and Metabolic Medicine, Graduate School of Medicine, Kagoshima University, Japan)
- PS-7-IV     Reduction in Exercise Capacity, Myocardial Energy Metabolism, and Survival in Rats With CHF Are Greatly Improved by Endothelin-A Receptor Antagonist**  
Takashi Miyauchi, Iwao Yamaguchi (Cardiovascular Division, Department of Internal Medicine, Institute of Clinical Medicine, University of Tsukuba, Japan)
- PS-7-V      Contribution of Mitochondrial Genome Polymorphisms to Idiopathic Cardiomyopathy**  
Masashi Tanaka (Gifu International Institute of Biotechnology, Japan)

October 18 (Sat.)

## Poster Session

Poster Room, Mid-Sized Hall, Sapporo Convention Center 9:00 – 16:00

### I. Pathophysiology: 1. Immunology, Inflammation

- P-I-1-1**      **Chronic Myocarditis Induced by CM2 Myosin Autoreactive T cell**  
Ichiro Takeuchi (Department of Internal Medicine&Cardiology, Kitasato University School of Medicine, Japan)
- P-I-1-2**      **Proarrhythmic Autoantibodies Produced Against Muscarinic 2 Acetylcholine Receptors in Patients With Dilated Cardiomyopathy**  
Akiyasu Baba (Division of Pathophysiology, Center for Clinical Pharmacy and Clinical Sciences, Kitasato University School of Pharmaceutical Sciences, Japan)
- P-I-1-3**      **Osteopontin Is Essential for Cardiac Fibrosis in Angiotensin II-Induced Hypertrophy**  
Nan Jia (Department of Cardiovascular Medicine, Hokkaido University Graduate School of Medicine, Japan)
- P-I-1-4**      **Tenascin-C Expression in the Myocardium Obtained by Partial Left Ventriculectomy From Patients With Dilated Cardiomyopathy**  
Bin Tsukada (The Third Division, Department of Internal Medicine, Osaka Medical College, Japan)
- P-I-1-5**      **The Pivotal Link Between Hepatitis C Virus Infection and Aortic Stiffness in Patients With End-Stage Renal Disease**  
Nobuyuki Oyake (The Cardiovascular Division, Shimane Medical University, Japan)
- P-I-1-6**      **SOCS1 and Viral Myocarditis**  
Hideo Yasukawa (Cardiovascular Research Institute, Kurume University, Japan)
- P-I-1-7**      **Serial Measurement of Myocardial Contractility During Mechanical Support**  
Yoshiaki Takewa (Department of Artificial Organs, National Cardiovascular Center Research Institute, Japan)
- P-I-1-8**      **Circulating Levels of IL18 and Its Site of Production in Patients With Asymptomatic Chronic Heart Failure**  
Satoru Kawano (Institute of Clinical Medicine, University of Tsukuba, Japan)

**October 18 (Sat.)**

---

**Poster Session**

Poster Room, Mid-Sized Hall, Sapporo Convention Center 9:00 – 16:00

---

**I. Pathophysiology: 2. New Models**

**P-I-2-1 A New Experimental Model of Hypertrophic Cardiomyopathy Induced by a K Channel Blocker in Rats**

Yasumi Uchida (Cardiovascular Center, Toho University Hospital at Sakura, Japan)

**P-I-2-2 Novel Gene Expression and Drug Screening for Cardiac Remodeling Using by Cardiac Transplantation-Coronary Ligation Rat Model**

Hiroshi Nakamura (The 2nd Department of Internal Medicine, University of Yamaguchi School of Medicine, Japan)

**P-I-2-3 Hydrostatic Pressure-Overload Induces Cardiomyocyte Hypertrophy**

Hidetsugu Sakai (Department of Cardiovascular Medicine, Hokkaido University Graduate School of Medicine, Japan)



October 18 (Sat.)

## Poster Session

Poster Room, Mid-Sized Hall, Sapporo Convention Center 9:00 – 16:00

### I. Pathophysiology: 3. Molecular Mechanisms

- P-I-3-1**      **Role of Angiotensin II in Altered Expression of Molecules Responsible for Coronary Matrix Remodeling in Insulin-Resistant Diabetic Rats**  
Subrina Jesmin (Department of Cardiovascular Medicine, Hokkaido University Graduate School of Medicine, Japan)
- P-I-3-2**      **Inhibition of Angiotensin Converting Enzyme (ACE) Attenuates Hypofibrinolysis and Reduces Cardiac Perivascular Fibrosis During the Development of Diabetic Cardiomyopathy in Genetically Obese Mice**  
AKM Tarikuz Zaman (Department of Cardiovascular Medicine, Hokkaido University Graduate School of Medicine, Japan)
- P-I-3-3**      **Inhibition of NRSF in the Heart Leads to Cardiac Dysfunction and Sudden Death**  
Shinji Yasuno (Department of Medicine and Clinical Science, Kyoto University Graduate School of Medicine, Japan)
- P-I-3-4**      **Defect of VEGF/KDR Signaling System in the Heart of Stroke-Prone Spontaneously Hypertensive Rat With the Development of Malignant Hypertension: Involvement of Rho-Kinase for Akt Downregulation**  
Subrina Jesmin (Department of Cardiovascular Medicine, Hokkaido University Graduate School of Medicine, Japan)
- P-I-3-5**      **Identification of a Caveolin-3 Mutation in Familial Hypertrophic Cardiomyopathy**  
Takeharu Hayashi (Department of Molecular Pathogenesis, Medical Research Institute, Tokyo Medical and Dental University, Japan)
- P-I-3-6**      **Role of Caveolin in Cardiac Hypertrophy**  
Naoki Oka (Department of Medicine III, Kurume University School of Medicine, Japan)
- P-I-3-7**      **p300 Are Involved in Rho Kinase-Mediated c-fos Gene Expression in Cardiac Myocytes**  
Tsuyoshi Sakoda (Department of Internal Medicine, Cardiovascular Division, Hyogo College of Medicine, Japan)
- P-I-3-8**      **Overexpression of p300 Promotes Left Ventricular Endothelin-1 Expression and Remodeling Following Myocardial Infarction in Adult Mice *in Vivo***  
Shoichi Miyamoto (Department of Cardiovascular Medicine, Graduate School of Medicine, Kyoto University, Japan)
- P-I-3-9**      **Increase in Protein Phosphatases Activity is Associated With Impaired Contractility Without Hypophosphorylation of Ca<sup>2+</sup> Regulatory Proteins in Hamster Cardiomyopathy**  
Michio Yamada (Department of Molecular Cardiovascular Biology, Yamaguchi University School of Medicine, Japan)
- P-I-3-10**     **Defective Regulation of Inter-Domain Interaction Within Ryanodine Receptor as a Cause of Heart Failure**  
Tetsuro Oda (Department of Medical Bioregulation, Division of Cardiovascular Medicine, Yamaguchi University School of Medicine, Japan)

October 18 (Sat.)

## Poster Session

Poster Room, Mid-Sized Hall, Sapporo Convention Center 9:00 – 16:00

### II. Diagnosis

- P-II-1**      **Analysis of Enterovirus Genome in the Myocardium of Murine Myocarditis in Subacute Phase and Patients With End-stage Dilated Cardiomyopathy**  
Akira Ukimura (The Third Division, Department of Internal Medicine, Osaka Medical College, Japan)
- P-II-2**      **The Clinical Features of *Takotsubo* Cardiomyopathy**  
Yoshihiro John Akashi (Department of Cardiology, Department of Internal Medicine, St. Marianna University School of Medicine, Japan)
- P-II-3**      **Elevation of C-reactive Protein Associated With Sleep-Disordered in Patients With Congestive Heart Failure**  
Takatoshi Kasai (Department of Cardiology, University of Juntendo, Japan)
- P-II-4**      **Prognostic Value of Left Ventricular Flow Propagation Velocity in Patients With Chronic Left Ventricular Systolic Dysfunction**  
Norifumi Hirao (Department of Cardiovascular Medicine, Hokkaido University Graduate School of Medicine, Japan)
- P-II-5**      **Diagnostic Impact of Myocardial Velocity Profile in the Hypertrophied Left Ventricular Wall in Patients With Cardiac Amyloidosis: Comparison With Hypertension and Hypertrophic Cardiomyopathy**  
Norihito Kageyama (National Higashi Tokushima Hospital, Japan)
- P-II-6**      **Long-term Influence of Left Ventricular Diastolic Dysfunction on the Clinical Course of Patients With Hypertrophic Cardiomyopathy**  
Hisao Onozuka (Department of Cardiovascular Medicine, Hokkaido University Graduate School of Medicine, Japan)
- P-II-7**      **Longitudinal Myocardial Function Assessed by Strain Tissue Doppler Imaging in a Case of Isolated Noncompaction of Left Ventricular Myocardium**  
Yoshifumi Oishi (Cardiovascular Section, National Higashitokushima Hospital, Japan)

October 18 (Sat.)

---

## Poster Session

Poster Room, Mid-Sized Hall, Sapporo Convention Center 9:00 – 16:00

---

### III. Therapy

- P-III-1 Early and Sustained Efficacy of Percutaneous Catheter Alcohol Ablation for Medically Refractory Patients With Hypertrophic Obstructive Cardiomyopathy**  
Morimasa Takayama (The First Department of Internal Medicine, Nippon Medical School, Japan)
- P-III-2 Successful Catheter Treatment for Hypertrophic Cardiomyopathy With Isolated Mid-Ventricular Obstruction**  
Yusuke Hosokawa (The First Department of Internal Medicine, Nippon Medical School, Japan)
- P-III-3 Protective Effects of Benidipine, a Calcium Antagonist, Against Myocardial Damage Following Viral Infection**  
Ryosuke Nishio (Division of Emergency Medicine, Kyoto University Hospital, Japan)
- P-III-4 Beneficial Effects of Arotinolol, a  $\beta$ -blocker, in a Murine Model of Congestive Heart Failure Induced by Viral Myocarditis**  
Ryosuke Nishio (Division of Emergency Medicine, Kyoto University Hospital, Japan)
- P-III-5 Atenolol, Bunazosin, and Carvedilol: Which of Them Should be Prescribed in Heart Failure From Diabetes Mellitus?**  
Tetsuya Hayashi (Third Department of Medicine, Osaka Medical College, Japan)
- P-III-6 Cardioprotection by Angiotensin II Antagonism in Heart Failure is Mediated Through Stabilization of Ryanodine Receptor**  
Shinichi Okuda (Department of Medical Bioregulation, Division of Cardiovascular Medicine, Yamaguchi University School of Medicine, Japan)
- P-III-7 Increased Myocardial Microvessels and Improved Left Ventricular Function by Intracoronary bFGF in Patients With Idiopathic Dilated Cardiomyopathy**  
Yasumi Uchida (Cardiovascular Center, Toho University Hospital at Sakura, Japan)
- P-III-8 Novel Mutations in the Lamin A/C Gene and Familial Dilated Cardiomyopathy**  
Ryuichiro Anan (First Department of Medicine, Kagoshima University, Japan)

Plenary Session

---

