Program

January 29, 2016 [Fri]
Room A  Jan, 29 [Fri]
Main Hall (2F)

8:45-9:00  Opening Remark

9:00-11:00  Core Session 1
Pulmonary Thromboembolism
Moderator: Koichiro Tatsumi  Chiba University
Sadayuki Murayama  University of the Ryukyus
Discuss: Ki Yeol Lee  Korea University Medical Center Ansan Hospital

Invited Speaker
9:00-9:15
1. Distal lesions of chronic thromboembolic pulmonary hypertension and balloon pulmonary angioplasty
   Takeshi Ogo
   National Cerebral and Cardiovascular Center

9:15-9:35
2. Update for Treatment for Pulmonary Thromboembolic Disease
   Nobuhiro Tanabe
   Chiba University

9:35-9:50
3. Assessment of pulmonary thromboembolic disease in nuclear medicine
   Norinari Honda
   Saitama Medical University

9:50-10:05
4. CT Assessment for Pulmonary Thromboembolism
   Jin Hur
   Severance Hospital, Yonsei University College of Medicine

10:05-10:20
5. MR Assessment for Pulmonary Thromboembolic Disease
   David L. Levin
   Mayo Clinic, University of California

Scientific Presentation
10:20-10:30
1. Assessment of Cross-Sectional Lung Ventilation-Perfusion Imbalance in Primary and Passive Pulmonary Hypertension with Automated V/Q Quotient SPECT
   Kazuyoshi Suga
   St. Hill Hospital

10:30-10:40
2. Utility of computed tomography-derived measurements of the pulmonary vasculature in the diagnosis and hemodynamic assessment of pulmonary arterial hypertension
   Kaoruko Shimizu
   Hokkaido University
10:40-10:50
3. Diagnostic Performance of the Combined Pulmonary Arterial MRI and Indirect Magnetic Resonance Venography Using Unenhanced and Contrast-Enhanced Techniques in the Diagnosis of Venous Thromboembolism

Nevzat Karabulut
Pamukkale University Medical Center

10:50-11:00 Further Discussion time in this session

11:20-12:00 Organizer Meeting of JSPFI

12:20-13:20 Luncheon Lecture 1 Sponsored by TOSHIBA MEDICAL SYSTEMS CORPORATION

New Techniques for Pulmonary Functional Imaging
Moderator: Koichiro Tatsumi  Chiba University

Invited Speaker
12:20-12:50
1. New Techniques for Pulmonary Functional Imaging: CT-based functional imaging
Edwin J.R. van Beek
Edinburgh University

12:50-13:20
2. MR-Based Functional and Metabolic Imaging at 3T System
Yoshiharu Ohno
Kobe University

13:40-16:00 Core Session 2
Thoracic Malignancy: Diagnosis and Treatment Response Assessment
Moderator: Nevzat Karabulut  Pamukkale University Medical Center
Noriyuki Tomiyama  Osaka University
Discusser: Yung-Liang Wan  Chang Gung Memorial Hospital

Invited Speaker
13:40-13:55
1. An Update on the Management of Lung Nodules
Jin Mo Goo
Seoul National University Hospital

13:55-14:10
2. Update of Medical Therapy for Advanced Lung Cancer
Koichi Takayama
Kyoto Prefectural University of Medicine
14:10-14:25
3. Lung cancer treatment assessment in the era of precision medicine: RECIST and beyond  
   Mizuki Nishino  
   Harvard Medical School

14:25-14:35
4. PET Imaging for Prognosis and Treatment Response Assessment in Lung Cancer  
   Tae Jung Kim  
   Samsung Medical Center

14:35-14:50
5. CAD for Prognosis and Treatment Response Assessment in Lung Cancer  
   Masahiro Yanagawa  
   Osaka University

14:50-15:05
6. New MR Techniques for Prognosis and Treatment Response Assessment  
   Hidetake Yabuuchi  
   Kyushu University

15:05-15:20
7. Radiomics and Radiogenomics in Lung Cancer: Clinical Perspectives  
   Ho Yun Lee  
   Samsung Medical Center, Sungkyunkwan University School of Medicine

Scientific Presentation

15:20-15:30
1. Prediction of therapeutic effect of chemotherapy for non-small-cell lung cancer using perfusion CT: comparison between regimens with and without anti-angiogenic agent  
   Hidetake Yabuuchi  
   Kyushu University

15:30-15:40
2. MR evaluation of the treatment response of HCC827 to erlotinib alone or combination with bevacizumab in mice model  
   Yi-Fang Chen  
   National Taiwan University

15:40-15:50
   Yu-Sen Huang  
   National Taiwan University Hospital

15:50-16:00  Further Discussion time in this session
16:20-17:20  
**Evening Lecture 1**  
Sponsored by FUJIFILM RI Pharma Co., Ltd.

**Imaging Biomarker for Pulmonary Diseases**
Moderator: Hiroto Hatabu  Brigham and Women’s Hospital, Harvard Medical School

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**Invited Speaker**

16:20-16:50  
1. CT-Based Imaging Biomarkers  
*David A. Lynch*  
National Jewish Health

16:50-17:20  
2. MR Based Imaging Biomarkers  
*David L. Levin*  
Mayo Clinic, University of California
Room B  Jan, 29 [Fri]
Event Hall (B1F)

12:20-13:20  Luncheon Lecture 2  Sponsored by FUJIFILM Medical Co., Ltd.
New analysis using SYNAPSE VINCENT® for the evaluation of respiratory function
Moderator: Noriyuki Tomiyama  Osaka University

Invited Speaker
12:20-12:50
1. Regional lung assessment using lobe segmentation methods and nonrigid multimodality image registration techniques by SYNAPSE VINCENT®
   Shigeo Muro
   Kyoto University

12:50-13:20
2. Bronchial dimension analysis of asthmatic patients using automatic route matching technique by SYNAPSE VINCENT®
   Tsuyoshi Oguma
   Kyoto University

18:40-20:30  Welcome Reception
## Poster Session

**Jan, 29 [Fri]**

**Lobby (B1F)**

<table>
<thead>
<tr>
<th>17:40-18:40</th>
<th>Poster Session</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Pulmonary Thromboembolism</strong></td>
<td><strong>Pulmonary vascular disease</strong></td>
</tr>
</tbody>
</table>
| Moderator : Shuichi Ono  
Hirosaki University  
Takeshi Ogo  
National Cerebral and Cardiovascular Center |
| **P1-1.** Potential role of CT metrics in chronic obstructive pulmonary disease with pulmonary hypertension  
Katsutoshi Ando  
Juntendo University |
| **P1-2.** Ratio of pulmonary arterial to aortic diameter and right to left ventricular diameter associate with poor outcome in medically-treated chronic thromboembolic pulmonary hypertension  
Ryogo Ema  
Chiba University |
| **P1-3.** Mean Pulmonary Artery Pressure by echocardiography in chronic thromboembolic pulmonary hypertension  
Hajime Kasai  
Chiba University |
| **P1-4.** Quantitative analysis of thrombosis using CT images  
Kaori Fujisawa  
Tokushima University |
| **P1-5.** Energy efficiency after balloon pulmonary angioplasty in chronic thromboembolic pulmonary hypertension: Assessment by phase-contrast MRI  
Michinobu Nagao  
Kyushu University |
| **P1-6.** Relationship between Improved Pulmonary Arterial Pressure and Changes in the Wall Thickness of Right Ventricle Myocardium by 320-slice CT in Patients Under Pulmonary Endarterectomy  
Toshihiko Sugiura  
Chiba University |
17:40-18:40  Poster Session
2. Thoracic Malignancy
 2-1. Lung cancer: Therapeutic effect assessment

Moderator: Masahiro Endo  Shizuoka Cancer Center Hospital
          Hiroaki Sakai  Hyogo Prefectural Amagasaki General Medical Center

P2-1-1. Correlation of early PET findings with tumor response to sensitive molecular targeted agents in patients with advanced non-small cell lung cancer
Tomonobu Koizumi
Shinshu University

P2-1-2. Stereotactic radiotherapy with Cyberknife for stage I non-small-cell lung cancer at our institute: Radiation pneumonitis
Masaki Nakamura
Kobe Minimally Invasive Cancer Center

P2-1-3. A case of acute arterial thrombosis in patient with postoperative adjuvant cisplatin-based chemotherapy for completely resected lung adenocarcinoma
Kenichi Okuda
The University of Tokyo

P2-1-4. Characterization of F-18-FDG Uptake in Irradiated Lung on Dual-Time-Point PET/CT Scan
Kazuyoshi Suga
St. Hill Hospital

P2-1-5. Initial Experience of Trans Pulmonary Arterial Marker Placement for Respiratory Gated Lung Stereotactic Radiotherapy
Yumiko Onishi
Kobe Minimally Invasive Cancer Center

17:40-18:40  Poster Session
2. Thoracic Malignancy
 2-2. Lung nodule: CT

Moderator: Masahiko Kusumoto  National Cancer Center Hospital East
          Takashi Hirose  NHO Tokyo National Hospital

P2-2-1. Radiology’s Role in Lung Cancer Screening Programs
Fuldem Mutlu
Sakarya University Education and Research Hospital

P2-2-2. Ground Glass Nodule (GGN) Detection by Chest Digital Tomosynthesis (CDT) with Iterative Reconstruction (IR): a phantom study using simulated nodules and clinical evaluation in 79 cases
Yukihiro Nagatani
Shiga University of Medical Science
### Poster Session

**3. COPD, Asthma and Airway Disease**

#### 3-1. COPD CT 1

<table>
<thead>
<tr>
<th>Moderator:</th>
<th>Shingo Iwano</th>
<th>Nagoya University</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Susumu Sato</td>
<td>Kyoto University Hospital</td>
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</tbody>
</table>

**P3-1-1.** Quantitative and qualitative analysis for chest CT with statistical or model-based iterative reconstruction: a chest phantom study  
*Satoshi Kawanami*  
*Kyushu University*

**P3-1-2.** The impact of iterative reconstruction onto quantitative evaluation of COPD using fully automated lobar segmentation  
*Hyun-ju Lim*  
*University Hospital of Heidelberg*

**P3-1-3.** Assessment of regional xenon-ventilation, perfusion and ventilation-perfusion mismatch Using Dual-Energy Computed Tomography in COPD Patients  
*Hye Jeon Hwang*  
*Hallym University College of Medicine, Hallym University Sacred Heart Hospital, University of Ulsan College of Medicine, Asan Medical Center*

**P3-1-4.** Longitudinal Follow-up Study of Smoking-induced Emphysema Progressing using Low-dose CT Screening  
*Kohji Shimada*  
*Tokushima University*

**P3-1-5.** Correlation of clinical characteristics by the grade of pulmonary emphysema in combined pulmonary fibrosis and emphysema  
*Keishi Sugino*  
*Toho University Omori Medical Center*
**Poster Session**

### 3. COPD, Asthma and Airway Disease

#### 3-2. COPD Therapeutic effect and physiologic assessment

**Moderator:** Tuneo Yamashiro  
University of the Ryukyus  
Kazuhisa Asai  
Osaka City University

**P3-2-1.** Evaluation of pharmacological volume reduction effect induced by tiotropium via 3D-CT image analysis  
Kazuya Tanimura  
Kyoto University

**P3-2-2.** Morphologic and Functional change after bronchoscopic lung volume reduction in COPD assessed with combined xenon ventilation and iodine perfusion dual energy CT  
Joon Beom Seo  
University of Ulsan College of Medicine, Asan Medical Center

**P3-2-3.** Exertional dyspnoea and cortical oxygenation in patients with COPD  
Yuji Higashimoto  
Kinki University

**P3-2-4.** Assessment of CT-derived airway wall area in COPD patients with indacaterol therapy  
Ruriko Seto  
Shiga University of Medical Science

**P3-2-5.** Computer tomography (CT)-assessed bronchodilation induced by inhaled indecatro and glycopyrronium /indacaterol combination in COPD  
Kaoruko Shimizu  
Hokkaido University

**Poster Session**

### 4. Basics of Computational Analysis for Pulmonary Imaging

#### 4-1. CAD: clinical application

**Moderator:** Hiroshi Fujita  
Gifu University  
Takatoshi Aoki  
University of Occupational and Environmental Health

**P4-1-1.** Classifying regional texture patterns of diffuse lung disease at HRCT with deep convolutional neural networks : Comparison with support vector machine  
Guk Bae Kim  
University of Ulsan College of Medicine, Asan Medical Center

**P4-1-2.** Comparison of skeleton based- and offset surfaces methods on pulmonary artery and veins: Validation with artificial vessel phantom and normal 3D volumetric CT  
Jang Pyo Bae  
University of Ulsan College of Medicine, Asan Medical Center
P4-1-3. Three-dimensional morphological analysis of spiculated pulmonary nodules in thoracic CT images

Yoshiki Kawata
Tokushima University

P4-1-4. Computer-aided diagnosis for osteoporosis using chest 3D CT images

Kazuya Yoneda
University of Tokushima

17:40-18:40 Poster Session
5. Interstitial Lung Disease
ILD : CT and MRI

Moderator: Nobuyuki Tanaka Saiseikai Yamaguchi General Hospital
Takashi Ogura Kanagawa Cardiovascular and Respiratory Center

P5-1. Survival analysis with quantified regional disease patterns at thin section CT in patients with idiopathic pulmonary fibrosis

Sang Min Lee
Asan Medical Center

P5-2. Composite CT indices derived from texture-based disease patterns for physiologic parameters in patients with idiopathic pulmonary fibrosis

Soyeoun Lim
Asan Medical Center

P5-3. Enhancement of Classification Accuracy in Automated Lung Quantification for Diffuse Interstitial Lung Disease in HRCT with Ensemble Methods

Sanghoon Jun
Asan Medical Center

P5-4. Six cases of unilateral upper-lung field pulmonary fibrosis

Akimasa Sekine
Kanagawa Cardiovascular and Respiratory Center

17:40-18:40 Poster Session
6. Motion Analysis and Biomechanical Imaging
6-1. Motion analysis and biomechanical imaging

Moderator: Tae Iwasawa Kanagawa Cardiovascular and Respiratory Center
Koji Chihara Shizuoka City Hospital

P6-1-1. Direct evidence of airflow limitation at the intra-mediastinal airway in emphysema patients by the use of maximum forced expiratory 4D-CT images

Takashi Kijima
Osaka University
P6-1-2. Dynamic change of airway in a patient with bronchial stenosis by ultra-low dose 4D-CT
Osamu Honda
Osaka University

P6-1-3. Pleural sliding mapping derived for detecting pleural adhesions
Ryo Sakamoto
Kyoto University

P6-1-4. New developed motion imaging to evaluate the effect of bronchodilator on human bronchial ciliary movement using bronchoscopic sample
Toshiyuki Sawa
Gifu Municipal Hospital

17:40-18:40  Poster Session
7. Others
  7-1. Infection disease

<table>
<thead>
<tr>
<th>Moderator : Fumito Okada  Oita University</th>
<th>Makoto Osawa  Shiga University</th>
</tr>
</thead>
</table>

P7-1-1. Computed tomography findings in 749 patients with pulmonary infection
Fumito Okada
Oita University

P7-1-2. TYPICAL CT AND RADIOGRAPHIC FINDINGS OF PULMONARY ECHINOCOCCOSIS
Esra Bilgi
Dresra Bilgi

P7-1-3. Correlation of HRCT findings with pulmonary function test and immunologic diagnostic test of tuberculosis: Comparison interferon-gamma release assay [IGRA] and tuberculosis skin test [TST]
Do Hyung Lee
Korea University Medical Center

P7-1-4. Bacteriological etiology in pneumonia patients with pulmonary emphysema using the clone library analysis of 16S rRNA gene in BALF
Keisuke Naito
University of Occupational and Environmental Health
Program

January 30, 2016 [Sat]
8:00-8:30  Board Meeting of IWPFI at The Westin

8:45-9:45  Morning Lecture 1  Sponsored by Nihon Medi-Physics Co., Ltd.
PET/CT and PET/MRI for the chest and lung disease: review of the current literature and clinical perspective
Moderator: Tsuyoshi Komori  Osaka Medical College

Invited Speaker
8:45-9:45
PET/CT and PET/MRI for the chest and lung disease: review of the current literature and clinical perspective
Munenobu Nogami  Hyogo Cancer Center

10:00-12:10  Core Session 3  COPD, Asthma and Airway Disease
Moderator: Shu Hashimoto  Nihon University
Yasuo Nakajima  St. Marianna University School of Medicine
Discusser: Sang Do Lee  University of Ulsan College of Medicine, Asan Medical Center

Invited Speaker
10:00-10:15
1. COPD Phenotype and Treatment
Shigeo Muro  Kyoto University

10:15-10:30
2. VENTILATION/PERFUSION TOGRAPHY (V/P SPECT) – THE FUNCTIONAL IMAGING FOR COPD PHENOTYPING
Marika Bajc  Skåne University Hospital

10:30-10:45
3. Quantitative CT for COPD phenotyping
Yasutaka Nakano  Shiga University of Medical Science

10:45-11:00
4. New Quantitative CT Techniques for COPD Phenotyping
Joon Beom Seo  University of Ulsan College of Medicine, Asan Medical Center

11:00-11:15
5. Magnetic Resonance Imaging for Chronic obstructive lung disease phenotyping
Tae Iwasawa  Kanagawa Cardiovascular and Respiratory Center
6. Phenotyping lung disease using optical coherence tomography (OCT)

Harvey O Coxson
University of British Columbia, St Paul’s Hospital

Scientific Presentation

11:30-11:40
1. Transfer Factor and Blood Gases in the V/P SPECT Emphysema Phenotype of COPD
   Marika Bajc
   Skåne University Hospital

11:40-11:50
2. Continuous quantitative measurements of proximal airway dimensions and lung density on
dynamic-ventilation CT in smokers: a novel imaging approach using a 320-row detector CT
   scanner
   Tsuneo Yamashiro
   University of the Ryukyus

11:50-12:00
3. Morpho-functional 1H-MRI of the lung in COPD: Short-term test- retest reliability
   Mark O Wielpuetz
   University of Heidelberg

12:00-12:10 Further Discussion time in this session

12:30-13:30 Luncheon Lecture 3 Sponsored by Nippon Boehringer Ingelheim Co., Ltd.
The latest topics of COPD treatment
   Moderator: Masaharu Nishimura Hokkaido University

12:30-13:00
1. Importance of symptom improvement for COPD treatment
   Yasutaka Nakano
   Shiga University of Medical Science

13:00-13:30
2. Importance of inhalational device for COPD treatment
   Yuko Komase
   St. Marianna University School of Medicine, Yokohama-City Seibu Hospital

14:00-15:00 Special Lecture 1
From Morphology to Function and Metabolism
   Moderator: Masaharu Nishimura Hokkaido University
   Mayuki Uchiyama The Jikei University School of Medicine
   Yeun-Chung Ray Chang National Taiwan University

14:00-14:20
1. Lung 3D Micro Analysis using Synchrotron Radiation CT
   Noboru Niki
   Tokushima University
14:20-14:40  
2. From Morphology to Function and Metabolism  
Radiology Aspect  
Hiroto Hatabu  
Brigham and Women’s Hospital, Harvard Medical School

14:40-15:00  
3. From Physician side  
Toyohiro Hirai  
Kyoto University

15:10-16:15  
Core Session 4  

Basics of Computational Analysis for Pulmonary Imaging  
Moderator: Toyohiro Hirai  
Kyoto University  
Kenya Murase  
Osaka University  
Discusser: Jong Hyo Kim  
Seoul National University

Invited Speaker  
15:10-15:25  
1. Basics of Computational Analysis for Pulmonary Imaging  
Namkug Kim  
University of Ulsan College of Medicine, Asan Medical Center

15:25-15:40  
2. Basics of Computational Assessment for Diffuse Lung Diseases (DLDs)  
Shoji Kido  
Yamaguchi University

15:40-15:55  
3. Lung CAD  
Noboru Niki  
Tokushima University

Scientific Presentation  
15:55-16:05  
1. Computer aided detection system for lung cancer, COPD, and osteoporosis in low-dose CT screening  
Hidenobu Suzuki  
Tokushima University

16:05-16:15  
Further Discussion time in this session
16:25-17:25  
**Evening Lecture 2**

Pulmonary Hypertension: Clinical and Functional Assessments

*Moderator*: Minoru Kanazawa  
*Saitama Medical University*

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**Invited Speaker**

16:25-16:55  
1. CT assessment of pulmonary hypertension

*Sang Min Lee*  
*Asan Medical Center*

16:55-17:25  
2. Pulmonary Hypertension: Clinical presentation and Functional Assessment Using Imaging

*Mark L. Schiebler*  
*University of Wisconsin*

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19:10-21:00  
**Joint Meeting Dinner at The Westin**
12:30-13:30  Luncheon Lecture 4  Sponsored by Philips Electronics Japan, Ltd.

Cardiopulmonary Functional Imaging
Moderator: Hiroshi Kimura  Nara Medical University School of Medicine

Invited Speaker

12:30-13:00
1. Balloon pulmonary angioplasty for chronic thromboembolic pulmonary hypertension:
   Assessment of CT angiography, MRI, and perfusion scintigraphy
   Michinobu Nagao
   Kyushu University Hospital

13:00-13:30
2. MR Application for Cardiopulmonary Diseases
   Ichizo Tsujino
   Hokkaido University
17:40-18:40  Poster Session  
2. Thoracic Malignancy  
2-3. Thoracic Malignancy: PET, PET/CT and MRI  

<table>
<thead>
<tr>
<th>Poster Session</th>
<th>Title</th>
<th>Author(s)</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-3-1.</td>
<td>Diffusion-Weighted MRI vs. FDG-PET/CT: Utility for the Management of Thymic Epithelial Tumors</td>
<td>Hisanobu Koyama</td>
<td>Kobe University</td>
</tr>
<tr>
<td>2-3-2.</td>
<td>Appropriate b Value Selection at Chest Computed Diffusion-Weighted Imaging for Improving Pulmonary Nodule/Mass Differentiation</td>
<td>Hisanobu Koyama</td>
<td>Kobe University</td>
</tr>
<tr>
<td>2-3-3.</td>
<td>Evaluation of the detectability of pulmonary micrometastases of 5 mm and smaller in dual time point TOF FDG PET/CT</td>
<td>Tsuyoshi Komori</td>
<td>Osaka Medical College</td>
</tr>
<tr>
<td>2-3-4.</td>
<td>FDG-PET/CT findings of primary lung cancer arising from the cyst wall or cavity</td>
<td>Maki Otomo</td>
<td>Tokushima University Hospital</td>
</tr>
<tr>
<td>2-3-5.</td>
<td>Value of 4 dimensional PET/CT in the diagnosis for primary lung cancer to compare with 3D PET/CT</td>
<td>Jun Sato</td>
<td>Iwata City Hospital</td>
</tr>
</tbody>
</table>

17:40-18:40  Poster Session  
2. Thoracic Malignancy  
2-4. Lung cancer: CT  

<table>
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<tbody>
<tr>
<td>2-4-1.</td>
<td>Clinical features of lung cancer and effect of its resection on pulmonary function in patients with combined pulmonary fibrosis and emphysema</td>
<td>Katsutoshi Ando</td>
<td>Juntendo University</td>
</tr>
</tbody>
</table>
P2-4-2. Evaluation of lung cancer by enhanced dual-energy CT: Association between three-dimensional iodine concentration and tumor differentiation
Shingo Iwano
Nagoya University

P2-4-3. Classifications and Measurements in Subsolid Nodules: Which Window Setting is Better?
Roh-Eul Yoo
Seoul National University Hospital

P2-4-4. Utility of Dual-Energy CT for Differentiation of Pulmonary Nodules: Comparison of Dual-Energy CT and FDG-PET/CT
Sachiko Miura
Nara Medical University

17:40-18:40
Poster Session
3. COPD, Asthma and Airway Disease
3-3. COPD CT 2
Moderator: Shin Matsuoka  St.Marianna University School of Medicine
Keisaku Fujimoto  Shinshu University

P3-3-1. Quantitative analysis of combined pulmonary fibrosis and emphysema (CPFE): correlation with impairment of lung function
Kum Ju Chae
Chonbuk National University Hospital

P3-3-2. Association of Epicardial Adipose Tissue with Airway Lesion of Chronic Obstructive Pulmonary Disease in Vietnamese
Yuichi Higami
Shiga University of Medical Science

P3-3-3. Robustness of the power law analysis of emphysema hole size distribution to the variation of lung inflation level and correlation with clinical parameters in KOLD cohort
Jeogneun Hwang
University of Ulsan College of Medicine, Asan Medical Center

P3-3-4. Automatic evaluation on fissure integrity for target lobe selection of endobronchial valve volume reduction procedure using volumetric chest CT: Validation with radiologic visual evaluation
Minho Lee
University of Ulsan College of Medicine, Asan Medical Center

P3-3-5. Estimated postoperative pulmonary function calculated with lung volume in 3D-CT for lung cancer patients with and without COPD
Masanori Yokoba
Kitasato University Hospital, Kitasato University
17:40-18:40  Poster Session
3. COPD, Asthma and Airway Disease
3-4. COPD Others

Moderator: Munenobu Nogami  Hyogo Cancer Center
          Takashi Iwanaga  Kinki University

P3-4-1. Verification of Co-Morbidities: an Additional Value of V/P SPECT in COPD
        Marika Bajc  Skåne University Hospital

P3-4-2. Obstructive Bronchitis and Emphysema Phenotypes by V/P SPECT Co-Exist in Severe COPD
        Marika Bajc  Skåne University Hospital

P3-4-3. Relationship between Brain and Pulmonary Function Studied by Hyperpolarized $^{129}$Xe MRI/MRS
        Akihiro Shimokawa  Osaka University

P3-4-4. Analysis of the microstructure of the secondary pulmonary lobulus by a synchrotron radiation CT
        Kohichi Minami  Tokushima University

P3-4-5. Quantitative study of airway changes in murine asthma models on micro-CT: comparison with pathologic findings
        Sanghyun Paik  Soon Chun Hyang University Hospital

17:40-18:40  Poster Session
4. Basics of Computational Analysis for Pulmonary Imaging
4-2. Image informatics: registration and segmentation

Moderator: Yoshiki Kawata  Tokushima University
           Kensaku Mori  Nagoya University

P4-2-1. Novel Airway Segmentation Technique in Low-dose CT Images: Global Validation with EXACT09
        Sang Joon Park  Seoul National University Hospital

P4-2-2. Blood Flow Contribution Analysis for Pulmonary Artery and Aorta using Contrast Enhanced Images
        Tomoki Saka  Yokohama National University
P4-2-3. 3D Partial Rigid Registration with ICP for airways using point classification
Leonardo Ishida-Abe
Yokohama National University

P4-2-4. Extraction algorithm of bronchi and pulmonary artery and vein using anatomical features based on multi-slice CT images
Mikio Matsuhiro
Tokushima University

P4-2-5. A Temporal Subtraction Technique from Thoracic MDCT Images Based on Image Registration Technique
Masashi Kondo
Kyushu Institute of Technology

17:40-18:40 Poster Session
6. Motion Analysis and Biomechanical Imaging
6-2. Airway and parechyma

Moderator: Hiromitsu Sumikawa  Osaka Rosai Hospital
Takashi Kijima  Osaka University

P6-2-1. Quantification of mucociliary function in murine lungs using magnetic particle imaging
Kohei Nishimoto
Osaka University

P6-2-2. Simulation study of inhaled gas imaging by the use of a 4D lung model and computational fluid dynamics
Hiroko Kitaoka
JSOL Corporation

P6-2-3. A combinatory simulator of ventilation, diffusion, and perfusion in the human pulmonary subacinus
Hiroko Kitaoka
JSOL Corporation

P6-2-4. Procaterol-stimulated increases in ciliary bend amplitude and ciliary beat frequency in mouse bronchioles
Nobuyo Tamiya
Kyoto Prefectural University of Medicine
<table>
<thead>
<tr>
<th>17:40-18:40</th>
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| 7. Others  | Moderator: **Hidetake Yabuuchi**  Kyushu University  
**Atsuomi Kimura**  Osaka University |
| 7-2. Others: CT and MRI |
| P7-2-1.  | Fat Suppression Capabilities at Chest 3T MRI: Utilities of Two-point TSE-Dixon Technique in Comparison with SPAIR Technique  
**Yuji Kishida**  Kobe University |
| P7-2-2.  | Anatomic and functional evaluation of central lymphatics with noninvasive MR lymphangiography  
**Eun Young Kim**  Samsung Medical Center |
| P7-2-3.  | Reproducibility of pulmonary blood flow measurements by phase-contrast MRI using two different MR scanners  
**Rin Iraha**  University of the Ryukyus |
| P7-2-4.  | Automatic bone of torso segmentation using contrast enhanced CT  
**Ahmed S. Maklad**  Tokushima University |

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<tr>
<th>17:40-18:40</th>
<th>Poster Session</th>
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</table>
| 7. Others  | Moderator: **Takeshi Kubo**  Kyoto University  
**Yoshinobu Iwasaki**  North Medical Center, Kyoto Prefectural University of Medicine |
| 7-3. Others |
| P7-3-1.  | Accuracy of Narrow Band Imaging in Conjunction with White Light by Thoracoscopy for Detection of Disseminated Thoracic Endometriosis in Patients of Catamenial Pneumothorax  
**Teruaki Mizobuchi**  Nissan Kohseikai Tamagawa Hospital |
| P7-3-2.  | A CASE PULMONARY ARTERIOVENOUS MALFORMATION  
**Mehmet Oncu**  Dresra Bilgi |
| P7-3-3.  | Pulmonary Agenesis Diagnosed in mid-age  
**Cagatay Bolgen**  Murat Gedikoglu |
<table>
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<tr>
<th>Session</th>
<th>Title</th>
<th>Author</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>7. Others</td>
<td>7-4. Case reports</td>
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<td>Moderator: Yuichiro Maruyama, Komoro Kousei General Hospital</td>
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<td>Tamotsu Ishizuka, University of Fukui</td>
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<td>P7-4-1</td>
<td>Long-term pulmonary complications of sulfur mustard exposure in former workers of poison gas factory</td>
<td>Yoshifumi Nishimura</td>
<td>Hiroshima University, Tadanoumi Hospital</td>
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<tr>
<td>P7-4-2</td>
<td>Experience of IgG4-related thoracic diseases on F-18-FDG PET/CT in our institute</td>
<td>Kazuyoshi Suga</td>
<td>St. Hill Hospital</td>
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<tr>
<td>P7-4-3</td>
<td>A case with rheumatoid arthritis who presented wheezes and methotrexate-associated lymphoproliferative disorder</td>
<td>Mariko Kinoshita</td>
<td>Teikyo University</td>
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<tr>
<td>P7-4-4</td>
<td>IgG4-related thoracic disease: report of two cases</td>
<td>Fumiyasu Tsushima</td>
<td>Hirosaki University</td>
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</tbody>
</table>
Program

January 31, 2016 [Sun]
Room A  Jan, 31 [Sun]
Main Hall (2F)

9:30-10:00  General Meeting of JSPFI

10:15-12:15  Core Session 5
Interstitial Lung Disease

Moderator: Arata Azuma  Nippon Medical School
            Takeshi Johkoh  Kinki Central Hospital of Mutual Aid Association of Public School Teachers
Discussion: Jae-Woo Song  University of Ulsan College of Medicine, Asan Medical Center

Invited Speaker
10:15-10:35  
1. Update for Diagnosis of Interstitial Lung Disease
Gong Yong Jin  Chonbuk National University Medical School and Hospital

10:35-10:50 
2. Recent advances in the treatment of idiopathic pulmonary fibrosis
Noboru Hattori  Hiroshima University

10:50-11:05 
3. Quantitative CT Assessment for ILD
David A. Lynch  National Jewish Health

11:05-11:20 
4. Quantitative MRI Assessment for ILD
Yoshiharu Ohno  Kobe University

Scientific Presentation
11:20-11:30 
1. Evaluation of Drug efficacy of Ethyl Pyruvate on the Pulmonary Fibrosis in mice with Hyperpolarized $^{129}$Xe MRI Pulmonary Function Diagnosis
Shota Hodono  Osaka University

11:30-11:40 
2. The association between pulmonary hemodynamics measured by phase-contrast MRI and acute exacerbations of interstitial lung diseases
Nanae Tsuchiya  University of the Ryukyus

11:40-12:15  Further Discussion time in this session
12:30-13:30 Luncheon Lecture 5  
Sponsored by GE Healthcare Japan Corporation
Moderator: Noriyuki Tomiyama Osaka University

Invited Speaker
12:30-12:40
1. Gemstone Spectral Imaging Technology
   Kousuke Sasaki
   GE Healthcare Japan Corporation

12:40-13:30
2. Update of Thoracic Imaging: new iterative reconstruction and gemstone spectral imaging
   Masahiro Yanagawa
   Osaka University

13:50-14:50 Special Lecture 2
New Techniques for Pulmonary Functional Imaging
Moderator: Michiaki Mishima Kyoto University
   Kiyoshi Murata Shiga University of Medical Science
   Jai Soung Park Soochunhyang University Hospital

Invited Speaker
13:50-14:10
1. Computer-aided diagnosis and assessment for pulmonary functional imaging
   Eric Hoffman
   University of Iowa

14:10-14:30
2. New MR Applications for Morpho-Functional Pulmonary Imaging
   Hans-Ulrich Kauczor
   Heidelberg University Medical Center

14:30-14:50
3. New CT applications for pulmonary functional imaging
   Joon Beom Seo
   University of Ulsan College of Medicine, Asan Medical Center

14:50-15:00 Closing Remark
12:30-13:30      Luncheon Lecture 6  Sponsored by Accuray Japan K.K./CHIYODA TECHNOLOG CORPORATION

CyberKnife: Real Time Image Guided Radiation Therapy for Lung Cancer
Moderator: Ryohei Sasaki  Kobe University Hospital

Invited Speaker
12:30-13:30
CyberKnife: Real Time Image Guided Radiation Therapy for Lung Cancer

Hideki Nishimura  Kobe Minimally Invasive Cancer Center