

Oct 18th Room A10月18日(金)
プログラム10月19日(土)
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プログラム

特別企画

シンポジウム

ガイドライン
セッションマニファレス
アエレンス

技術講習会

E-ISFA
Workshopアエレンス
世界の
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(英語口演)

(一般演題)
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Workshop ワークショップ

9:00~10:30

E-ISFA Workshop Kyoto

Chair Bernd Hohenstein Nephrological Center Villingen-Schwenningen

Chair Wolfgang Ramlow Apheresis Center Rostock

WS-01 Update on vasculitis treatment including plasma exchange

Wladimir Szpirt

Rigshospitale, Denmark

WS-02 Lipoprotein(a): Delicate Risk Factor and Prime Target for Apheresis

Wolfgang Ramlow

Apheresis Center Rostock, Germany

WS-03 Why should immunoadsorption be a therapy of continuing interest?

Bernd Hohenstein

Nephrological Center Villingen-Schwenningen, Germany

Symposium 1 シンポジウム 1 CAR-T 血液治療

10:45~12:15

Current State of CAR-T Therapies in the World

Chair Chisa Yamada Department of Pathology, University of Michigan

SY1-01 Current Status of CAR-T Therapy in the United States

Nicole Aquil

Department of Pathology and Laboratory Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, USA

SY1-02 Volker Witt

SY1-03 Basic and clinical studies of CAR-T cell therapy in Japan

Keiya Ozawa

Division of Immuno-Gene & Cell Therapy (Takara Bio), Jichi Medical University, Tochigi, Japan

Luncheon Seminar 1

12:30~13:30

Sponsored by Novartis Pharma K.K. ノバルティスファーマ株式会社

Standard of Apheresis/Cell processing Site for CAR-T therapy

Chair Peter Holman Global Apheresis Integration, Novartis Pharmaceuticals Corp.

LS1-01 Institutional preparation for CAR-T Cell Therapy and Apheresis

Peter Holman

Global Apheresis Integration, Novartis Pharmaceuticals Corp.

LS1-02 How to establish the management system for CAR-T therapy in Japan

Masafumi Onodera

Department of Human Genetics, National Center for Child Health and Development

Dr. Inoue Award 井上賞

信州大学医学部附属病院 腎臓内科
山田洋輔

Special Lecture 1 Memorial Seminar for the late Prof. Akira Yamamoto

14:30~15:00

Chair Hidenori Matsuo 独立行政法人国立病院機構 長崎病院
Neurology, National Hospital Organization, Nagasaki National Hospital
Chair Tadao Akizawa 東京腎疾患研究・情報センター

SL1-01 Remembrance of Dr. Akira Yamamoto

Harada-Shiba Mariko
Molecular Innovation in Lipidology, National Cerebral and Cardiovascular Center
Research Institute, Japan

SL1-02 In Memory of Prof. Akira Yamamoto

Yoshihiro Endo
Department of Clinical Nursing, Shiga University of Medical Science, Japan

Symposium 2 シンポジウム 2 LDL

15:30~17:00

Registry of lipoprotein apheresis

Chair Patrick M. Moriarty University of Kansas Medical Center
Chair Mariko Harada-Shiba Molecular Innovation in Lipidology, National Cerebral
and Cardiovascular Center Research Institute

SY2-01 North American Lipoprotein Apheresis Registry (NALAR): Data collection design and rationale

Patrick M. Moriarty
University of Kansas Medical Center, USA

SY2-02 Registry of homozygous familial hypercholesterolemia

Mariko Harada-Shiba
Molecular Innovation in Lipidology, National Cerebral and Cardiovascular Center
Research Institute, Japan

SY2-03 Beyond cholesterol, pleotropic effects of lipoprotein apheresis.

Volker J. J. Schettler
Center of Nephrology Goettingen GbR, Goettingen, Germany.

SY2-04 LDL apheresis in Heterozygous Familial Hypercholesterolemia : data from the French Registry of Familial hypercholesterolemia (REFERCHOL)

Antonio Gallo
Cardiovascular Prevention Unit, University Hospital Pitie Salpetriere, France

Evening Seminar 1 Sponsored Symposium

17:05~18:05

Sponsored by abbvie アブヴィ合同会社

Chair Taku Kobayashi Center for Advanced IBD Research and Treatment,
Kitasato University Kitasato Institute Hospital, Tokyo, Japan

ES1 Treatment of inflammatory bowel disease in Europe

Rodolfo Sacco, MD, PhD

Gastroenterology and Endoscopy Digestive Unit -Foggia University Medical School
- Italy

Special Lecture 2 日本医学会加盟記念セミナー

18:10~18:40

Chair 津田 裕士 Hiroshi Tsuda

Chair 松尾 秀徳 Hidenori Matsuo 独立行政法人国立病院機構 長崎病院

SL2-01 アフエレンス治療の将来への期待

阿岸 鉄三 Tetsuzo Agishi

SL2-02 祝！日本医学学会加盟（前事務局長の立場から）

峰島 三千男 Michio Mineshima

Room D

Symposium 3 シンポジウム 3 IBD 1

9:00~10:35

Apheresis therapy for inflammatory bowel disease -Past, Present, Future-1

Chair Makoto Naganuma Division of Gastroenterology and Hepatology,
Keio University School of Medicine

Chair Yamin Lai Peking Union Medical College Hospital

SY3-01 Leukocytapheresis as an Adjunct to Medication for Inflammatory Bowel Disease

Koji Sawada

Director of Dojima General & Gastroenterology Clinic, Japan

SY3-02 Granulomonocytoapheresis as therapeutic option of IBD in Europe

Rodolfo Sacco

Gastroenterology and Metabolic Disease Unit Cisanello Pisa University Hospital,
Pisa, Italy

SY3-03 Adsorptive Granulocyte and Monocyte Apheresis in the Treatment of Inflammatory Bowel disease : The First Multicenter Study In China.

Yamin Lai

Peking Union Medical College Hospital, China

SY3-04 Real-world experiences of cytapheresis therapy for ulcerative colitis; results from large-scale multicenter observational studies

Taku Kobayashi

Center for Advanced IBD Research and Treatment, Kitasato University Kitasato
Institute Hospital, Tokyo, Japan

SY3-05 Factors affecting clinical remission in patients with ulcerative colitis treated with cytapheresis therapy

Shigeki Banba

Division of Clinical Nutrition, Shiga University of Medical Science, Japan

Symposium 4 シンポジウム 4 IBD 2

10:45~12:15

Apheresis therapy for inflammatory bowel disease -Past, Present, Future-2

Chair Makoto Naganuma Division of Gastroenterology and Hepatology,
Keio University School of Medicine

Chair Yamin Lai Peking Union Medical College Hospital

SY4-01 A novel leucocyte apheresis adsorption system in refractory active ulcerative colitis

Wolfgang Kruis

Evangelisches Krankenhaus Köln Kalk (Formerly active as chief physician), Ger-
many

SY4-02 Safety and efficacy of single needle leucocyte apheresis for ulcerative colitis: A retrospective analysis

Youichiro Shindo

Division of Gastroenterology Department of Medicine, Kurume University School of
Medicine, Kurume, Japan

SY4-03 The efficacy of combination therapy of intensive GMA with biologics or a JAK inhibitor for refractory inflammatory bowel disease

Satoshi Tanida

Department of Gastroenterology and Metabolism, Japan

SY4-04 Efficacy apheresis as maintenance therapy for patients with ulcerative colitis in a prospective multicentre randomised controlled trial

Makoto Naganuma

Division of Gastroenterology and Hepatology, Keio University School of Medicine, Japan

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Luncheon Seminar 2

12:30~13:30

Sponsored by JIMRO 株式会社JIMRO

**Vascular access practices for GMA treatment
GMA治療の穿刺と管理**Chair Ken Yamaji Department of Internal Medicine and Rheumatology,
Juntendo University School of Medicine**LS2-01 Vascular punctures for GMA treatment**

Hisashi Matono

Department of medical engineer, Wakakusa-Daiichi Hospital

LS2-02 Tips for ensuring vascular access and maintaining extracorporeal circulation in pediatric blood purification therapy

Mariko Sawada

Department of Pediatrics, Kurashiki Central Hospital

Symposium 5 シンポジウム 5 Dermatology 皮膚疾患

15:30~17:00

Advancement of Apheresis in Dermatology

Chair Shigaku Ikeda Department of Dermatology, Juntendo University School of Medicine

Chair Chisa Yamada Transfusion Medicine, Department of Pathology,
University of Michigan, Ann Arbor, Michigan, USA**SY5-01 Granulocyte and monocyte adsorption apheresis for generalized pustular psoriasis**

Mariko Seishima

Department of Dermatology, Gifu University Graduate School of Medicine, Japan

**SY5-02 Granulocyte and monocyte adsorption apheresis for psoriatic arthritis
Takuro Kanekura**

Department of Dermatology, Kagoshima University, Kagoshima, Japan

SY5-03 Extracorporeal Photopheresis Treatment for Dermatological Diseases

Chisa Yamada

Transfusion Medicine, Department of Pathology, University of Michigan, Ann Arbor, Michigan, USA

SY5-04 Autologous Hematopoietic Stem Cell Transplantation for Treatment of Severe Systemic Sclerosis

Mark Wener

University of Washington, Department of Laboratory Medicine & Division of Rheumatology, USA

血液浄化装置プラソール μ を用いた腹水濾過濃縮再静注法 (CART) 最新の知見

Chair 米川 元樹 札幌北榆病院

ES2-01 血液浄化装置プラソート μ 【CARTモード】 装置機能をどう使いこなすか！

宮川 浩之

日本赤十字社医療センター 臨床工学技術課

ES2-02 同一腹水を用いた内圧濾過法と外圧濾過法の比較と血液浄化装置プラソート μ の操作性

長谷川 みどり

藤田医科大学 腎臓内科

Room B-1

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Symposium 6 PDF SESSION I

9:00~10:30

Chair Alexey Sokolov The Department of Anesthesiology and Reanimatology,
North-Western State Medical University named after
I.I.Mechnikov, St.Petersburg, Russia

Chair Yutaka Eguchi Department of Critical and Intensive Care Medicine,
Shiga University of Medical Science Shiga, Japan

SY6-01 The improvement of acute kidney injury by plasmadiafiltration on sepsis animal model

Jun Xue

Dept. of Nephrology, Huashan Hospital, Fudan University, Shanghai, China

SY6-02 Plasma adiponectin levels in acute liver failure patients treated with plasma filtration with dialysis and plasma exchange

Yoshitaka Uji

Department of Emergency and Gastroenterological Surgery, Shin-Koga Hospital, Fukuoka, Japan

SY6-03 PDF procedure induce IL-10; a case report

Yutaka Eguchi

Department of Critical and Intensive Care Medicine, Shiga University of Medical Science Shiga, Japan

SY6-04 Utility of the novel artificial liver support combination therapy, PDF with high flow-volume CHDF

Kota Kamizato

Department of Anesthesiology and Intensive Care Medicine, University of the Ryukyus, Okinawa, Japan

SY6-05 High flow-volume plasma filtration with dialysis and plasma exchange with dialysis

Hajime Nakae

Department of Emergency and Critical Care Medicine, Akita University Graduate School of Medicine, Japan

SY6-06 Continuous plasmafiltration with dialysis (CPDF)

Takumi Taniguchi

Department of Anesthesiology and Intensive Care Medicine, Kanazawa University, Kanazawa, Japan

Symposium 7 PDF Session II

10:45~12:00

Chair Xue Jun Dept. of Nephrology, Huashan Hospital,
Fudan University, Shanghai, China

Chair Hajime Nakae Department of Emergency and Critical Care Medicine,
Akita University Graduate School of Medicine

SY7-01 Comparison of selective plasma exchange, plasma diafiltration, MARS and Prometheus systems in treatment of liver failure

Sokolov Alexey A.

The Department of Anesthesiology and Reanimatology, North-Western State Medical University named after I.I.Mechnikov, St.Petersburg, Russia

SY7-02 Safety Management in Plasma Diafiltration

Maki Kagitani

Blood Purification Center, Osaka Medical College, Japan

SY7-03 Artificial liver support for liver transplant recipients during perioperative period

Hironori Hayashi

Department of Surgery, Toyama Prefectural Central Hospital, Japan

SY7-04 Multicenter Study of Plasma filtration with dialysis (PDF) in Patients with Acute Liver Failure

Yutaka Eguchi

Department of Critical and Intensive Care Medicine, Shiga University of Medical Science Shiga, Japan

SY7-05 Clinical application and effect analysis of plasma diafiltration (PDF) in patients with liver failure

Yi Tian

Dep.Infectious disease, the Second Xiangya Hospital, Central South University, Changsha, China

Luncheon Seminar 3

12:30~13:30

Sponsored by NIKKISO 日機装株式会社

Chair Wolfgang Kruis The hospital Evangelisches Krankenhaus Köln Kalk

LS3-01 Adsorption mechanism of Immunopure

Grit Waitz

Nephrocare Rostock GmbH Medizinisches Versorgungszentrum Südstadt, Germany

Chair Grit Waitz

Nephrocare Rostock GmbH Medizinisches
Versorgungszentrum Südstadt**LS3-02 Apheresis for treatment of active ulcerative colitis: evidence and developments**

Wolfgang Kruis

The hospital Evangelisches Krankenhaus Köln Kalk, Germany

Apheresis Manual Lecture アフェレシス マニュアル レクチャー

16:00~17:00

AM-01 Critical Care領域で行われる急性血液浄化療法

田畑 貴久 Takayuki Tabata

滋賀医科大学 医学部 医学科 救急集中治療医学講座

Room B-2

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State of the Art 1 Critical Care Medicine クリティカル領域 9:00~10:30

Chair Paul S. Malchesky ICAOT

- SA1-01 Current status of plasma exchange in critical ill patients in Vietnam**
Hien_Thi Thu Huynh
Cho Ray Hospital, Ho Chi Minh, Vietnam
- SA1-02 What and how we can remove by therapeutic apheresis using adsorption technology?**
Sergei N. Pokrovsky
National Medical Research Center of Cardiology, Ministry of Health of Russian Federation, Moscow, Russia
- SA1-03 Results from the CAMII Study: Selective CRP apheresis as a new treatment option in acute myocardial infarction**
Ahmed Sheriff
Charite Universitaetsmedizin, Medizinische Klinik Gastroenterologie/ Infektiologie/ Rheumatologie, Germany
- SA1-04 The improving effects of lipoprotein apheresis on cardiac vascular ultrasonic parameters**
Dongliang Zhang
The Blood Purification Center of Nephrology Department, Peking University International Hospital, China
- SA1-05 After EUPHRATIS Is LPS Apheresis for Sepsis obsolete? In-vitro investigation for a new concept of Endotoxin adsorption**
Mandry Peter
B. Braun Avitum Saxonia GmbH, Germany

State of the Art 2 Nephrology/Others 腎疾患 10:45~12:15

Chair Dusit Lumlertgul Faculty of Medicine, Chiang Mai University,
Chiang Mai, Thailand

- SA2-01 Severe Nephrotic Syndrome with Hyperthyroidism and Acute Renal Failure Treatment with Plasmapheresis and Immunosuppressive drug: Tacrolimus**
Dusit Lumlertgul
Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand
- SA2-02 Effects of LDL-Apheresis in Adult Refractory Nephrotic Syndrome and Its Reproducibility**
Hideki Takizawa
The Department of Nephrology, Teine Keijinkai Hospital, Sapporo, Japan
- SA2-03 Plasmapheresis Reduces Mycophenolic Acid Concentration: A Study of Full AUC0-12**
Sudarat Piyasiridej
Nephrology unit, Department of Medicine, Chulalongorn University, Bangkok, Thailand

SA2-04 Immunoadsorption treatment of recurrent primary focal segmental glomerulosclerosis: A single center experience.

Hamza Naciri Bennani

Department of Nephrology, Hemodialysis, Apheresis and Renal Transplantation, CHU Grenoble-Alpes, Grenoble, France

SA2-05 Apheresis therapy for steroid-resistant idiopathic nephrotic syndrome: Report on three cases

Hamza Naciri Bennani

Department of Nephrology, Hemodialysis, Apheresis and Renal Transplantation, CHU Grenoble-Alpes, Grenoble, France

SA2-06 Rationale and Study Design of LDL apheresis-mediated Endothelial activation Therapy to Severe-Peripheral Artery Disease study (LETS-PAD study)

Eiko Ueda

Department of Medical Science and Cardiorenal Medicine, Yokohama City University Graduate School of Medicine, Kanagawa, Japan

English Oral 1 Critical Care Medicine クリティカル領域

15:30~17:00

Chair Hajime Nakae Department of Emergency and Critical Care Medicine, Akita University

EO1-01 Nafamostat mesylate inhibition of LZD metabolism via its antioxidant effects

Naohide Kuriyama

Department of Anesthesiology & Critical Care Medicine, Fujita Health University, Toyoake, Japan

EO1-02 The mechanism of the decrease in cardiac output measurement by transpulmonary thermodilution has been elucidated.

Tomoyuki Nakamura

Department of Anesthesiology and Critical Care Medicine, Fujita Health University School of Medicine, Toyoake, Japan

EO1-03 Treatment of chronic Heavy Metal Intoxication by Plasmapheresis, Promise or Illusion?

Martin Jansen

Institute of Clinical Chemistry and Laboratory Medicine, Faculty of Medicine, University of Freiburg, Freiburg, Germany

EO1-04 A Case series -Use of Therapeutic Plasma Exchange (TPE) in the management of Patients with Snake bite

Indika de Alwis

Regional Blood Centre, T H Ratnapura, Sri Lanka

EO1-05 Biocompatibility and efficacy of self-anticoagulative chitosan- κ -carrageenan composite hydrogel for simultaneous endotoxin adsorption and bacteria capture in septic blood

Yupei Li

Department of Nephrology, West China Hospital, Sichuan University, Chengdu, China

EO1-06 Lactate predicts the 28-day survival rate in patients with septic shock treated with the combination of PMX-DHP and rTM

Masafumi Yamato

Department of Nephrology, National Hospital Organization, Osaka National Hospital, Osaka, Japan

Room E

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Japanese Oral 1 腹水・CART Ascites/CART

9:00~10:00

Chair 上條 祐司 Yuji Kamijo 信州大学医学部

J01-01 内圧濾過式CART施行時の逆濾過洗浄における洗浄量の検討

梅井 克行

関西電力病院 臨床工学部

J01-02 血液浄化装置プラソート μ (CARTモード) 使用時の至適腹水濃縮率の検討

宮川 浩之

日本赤十字社医療センター 臨床工学技術課

J01-03 CART専用血液浄化装置Plasauto μ の使用評価

柿本 苗世

社会医療法人天神会 新古賀クリニック 臨床工学課

J01-04 血液浄化装置プラソート μ を用いたCARTにおける安全性の検討

山田 幸恵

藤田医科大学病院 血液浄化センター

State of the Art 3 LDL

10:45~12:15

Chair Mariko Harada-Shiba Molecular Innovation in Lipidology, National Cerebral and Cardiovascular Center Research Institute

SA3-01 New sorbents for the simultaneous removal of most atherogenic, apoB100 containing lipoproteins and C-reactive protein

Elena Utkina

National Medical Research Center of Cardiology, Ministry of Health of Russian Federation, Moscow, Russia

SA3-02 Establishing Low-Density Lipoprotein Apheresis Tolerability in Patients with

Prior Anaphylactoid Reactions to Lipid Apheresis using Magnesium Sulfate

Ethan Alexander

University of Kansas School of Medicine, Department of Clinical Pharmacology, Kansas City, Kansas, USA

SA3-03 Impact of PCSK9 inhibitors on LDL apheresis

Samir Saheb

Departement of Endocrinology and Metabolism, Sorbonne University, Paris, France

SA3-04 Current insights into the German Lipoprotein Apheresis Registry (GLAR), more

than 7 years on.

Volker J.J. Schettler

Center of Nephrology Goettingen, Goettingen, Germany

SA3-05 Apheresis in preeclampsia - Lipids, angiogenetic factors or else?

(The APPROVE project, a controlled multi-center apheresis trial)

Karl Winkler

Institute of Clinical Chemistry and Laboratory Medicine, Faculty of Medicine, University of Freiburg, Germany

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SA3-06 Validation and Use of the Kaneka Liposorber LA-15 device for a Mobile Lipoprotein Apheresis Service
Patricia_A Shi
Clinical Services, New York Blood Center, USA

Japanese Oral 2 炎症性腸疾患 IBD

15:30~16:00

Chair 横山 陽子 Yoko Yokoyama 兵庫医科大学病院 炎症性腸疾患内科

J02-01 異なる温度下で酢酸セルロースビーズがinterleukin 13産生に与える影響
西瀬 祥一

公立学校共済組合 東北中央病院 健康管理科

J02-02 当院GMA・LCAP（CAP）療法における治療効果の検討
今井 徹朗

久留米大学病院 臨床工学センター

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Poster Presentation 1 肝疾患 Hepatology/others

10:30~11:50

Chair 井上 和明 Kazuaki Inoue

昭和大学藤が丘病院 消化器内科
Gastroenterology, Showa University Fujigaoka
Hospital

- PP1-01 The protective effect of Bifidobacterium longum R0175 on D-galactosamine(Gal-N)-treated rats**
Kaicen Wang
The First Affiliated Hospital, School of Medicine, Zhejiang University, Hangzhou, China
- PP1-02 MAdCAM-1 mediates gut-derived lymphocyte trafficking to liver in primary sclerosing cholangitis mouse model**
Jiafeng Xia
State Key Laboratory for Diagnosis and Treatment of Infectious Disease, The First Affiliated Hospital, School of Medicine, Zhejiang University, Hangzhou, China
- PP1-03 The Evaluation and Improvement of a Modified Fluidized Bed Bioreactor Based on Diversion-Type Microcapsule Suspension for Bioartificial Liver Systems**
Juan Lu
State Key Laboratory for Diagnosis and Treatment of Infectious Diseases, The First Affiliated Hospital, College of Medicine, Zhejiang University, China
- PP1-04 Fructus Psoraleae-induced severe liver injury and treatment with two artificial liver support systems: A case series study**
Zhongyang Xie
State Key Laboratory for Diagnosis and Treatment of Infectious Diseases, The First Affiliated Hospital, College of Medicine, Zhejiang University, China
- PP1-05 Gastric microbiota alters after short- or long- term ethanol intake**
Jingjing Wu
Laboratory for Diagnosis and Treatment of Infectious Disease, The First Affiliated Hospital, College of Medicine, Zhejiang University, Hangzhou, China.
- PP1-06 5-lipoxygenase (5-LO) metabolic pathway associated with prognosis of hepatocellular carcinoma: a big data analysis based on TCGA**
Danhua Zhu
State Key Laboratory for Diagnosis and Treatment of Infectious Diseases, The First Affiliated Hospital, College of Medicine, Zhejiang University, Hangzhou, China
- PP1-07 Lactobacillus helveticus R0052 alleviates liver injury, enhances intestinal barrier, modifies gut microbiome and metabolome in D-galactosamine-treated rats**
Qiangqiang Wang
The First Affiliated Hospital, School of Medicine, Zhejiang University, Hangzhou, China
- PP1-08 A delivery system of Pediococcus pentosaceus and their effects of reducing hepatic damage following acute liver injury**
Jiaojiao Xie
The First Affiliated Hospital, School of Medicine, Zhejiang University, Hangzhou, Zhejiang Province, China

Chair 上條 祐司 Yuji Kamijo 信州大学医学部
Shinshu University School of Medicine

- PP2-01 Biochemical Evaluation of Processed Ascites in Patients Undergoing Cell-Free and Concentrated Ascites Reinfusion Therapy**
Hironori Nakamura
Department of Nephrology, Shinonoi General Hospital, Nagano, Japan
- PP2-02 血液浄化デバイスを用いた無細胞濃縮腹水再注入療法（CART）の炎症反応抑制法の検討**
Suppression of inflammation during cell-free concentrated ascites reinfusion therapy (CART) using a blood purification device
大橋 篤
藤田医科大学 医療科学部 臨床工学科
- PP2-03 目詰まり濾過器に対する生理食塩水を用いた2方向排液洗浄法は有効である**
The washing using the normal saline to drain to the two directions for the clogged filtration filter is effective
井形 直紀
徳島大学 医学部 医学科 Student Lab
- PP2-04 多職種連携による胸腹水濾過濃縮専用装置（M-CART）の開発と臨床評価**
Development and clinical evaluation of an ascites filtration and concentration equipment by interprofessional collaboration
福原 正史
公立学校共済組合 四国中央病院 透析センター
- PP2-05 顆粒球吸着療法後早期の潰瘍性大腸炎再燃と関連する因子**
Clinical factors associated with relapse of ulcerative colitis after granulocyte-monocyte adsorption
浜崎 敬文
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- PP2-06 高齢者潰瘍性大腸炎に対する顆粒球吸着療法の有効性と安全性の検証**
Efficacy and safety of granulocyte and monocyte adsorptive apheresis in elderly vs. non-elderly patients with ulcerative colitis
佐藤 俊輔
順天堂大学医学部附属静岡病院 消化器内科
- PP2-07 チューブホルダー型胸腹水濾過濃縮用回路セットの開発**
Development of a tube holder-type circuit set for cell free and concentrated ascites reinfusion therapy (CART)
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