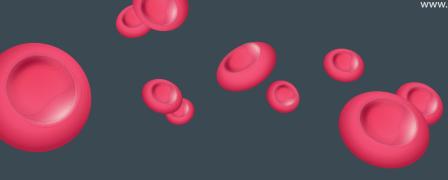
www.icksh.org



Step Further Inside the Real World of Precision Hematology

# **ICKSH** 2018

2018 KOREAN SOCIETY OF HEMATOLOGY INTERNATIONAL CONFERENCE & 59<sup>th</sup> ANNUAL MEETING

In conjunction with BTG 2018 by AP Hematology Consortium

MARCH 29 - 31, 2018 Grand Walkerhill Seoul, Korea





## **CONTENTS**

Welcome Message	0
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Organizing Committee 0

Program-at-a-Glance 04

Floor Plan 12

General Information 14

Speaker Information 16

Social Program 17

Sponsors (Acknowledgement) 18

Exhibition 20

Plenary Lectures 24

Daily Program 27

Poster Presentations 51

## **WELCOME MESSAGE**

Dear Colleagues,

It is a great honor and privilege to invite you to attend the 2018 KSH International Conference & 59th Annual Meeting, hosted by the Korean Society of Hematology (KSH), to be held March 29-31, 2018, at the Grand Walkerhill Seoul, Korea.

Founded in 1958, the Korean Society of Hematology has steadily grown over the years and will soon celebrate its 60<sup>th</sup> anniversary. As the explosion in the 21<sup>st</sup> century of science and industry has brought revolutionary advancement, the expansion of knowledge and development of new technologies goes beyond imagination. The ICKSH 2018 will provide a unique opportunity to learn about the most recent findings and research from renowned experts and offer an occasion to exchange experiences and information with colleagues for the continued success and progress of our field.

Our programs will include benign hematologic diseases, various types of hematologic malignancies, coagulation/thrombosis related disorders and transfusion medicine through plenary lectures, as well as scientific and education sessions. We are also planning to open several satellite symposiums with specialists on numerous hematology-related topics.

We very much look forward to sharing this memorable and fantastic meeting together.



A J your

Hwi-Joong Yoon, M.D., Ph.D. Congress Chairman The Korean Society of Hematology



Hyeoung-Joon Kim, M.D., Ph.D. President The Korean Society of Hematology

## **ORGANIZING COMMITTEE**

### **Congress Chairman**

Hwi-Joong Yoon Kyung Hee University College of Medicine

### Secretary General

Bin Cho College of Medicine, The Catholic University of

#### Scientific Committee

Chair

Korea

Hee-Je Kim College of Medicine, The Catholic University of Korea

#### **Congress Internalization Committee**

Chair

Dona-Wook Kim College of Medicine, The Catholic University of Korea

#### **Medical Policy Committee**

Chair

Hyoung Jin Kang Seoul National University College of Medicine

### **Education and Training Committee**

Dae Young Zang Hallym University College of Medicine

#### President

Hyeoung-Joon Kim Chonnam National University Medical School

#### Vice Secretary General

Seongsoo Jang University of Ulsan College of Medicine

#### Finance Committee

Chair

Jin Seok Kim Yonsei University College of Medicine

#### Vice-Chair

Keon Hee Yoo Sungkyunkwan University School of Medicine

#### **Public Relations Committee**

Chair

Hyeon Jin Park National Cancer Center

## PROGRAM AT A GLANCE March 29 (Thu), 2018

Time	VISTA 1	VISTA 2	VISTA 3	
07:30	Registration			
08:00	(	OPENING REMARKS (Place: Vista 1)		
08:00-09:00	OP01	OP02	OP03 (KOR)	
09:00-10:00	<b>ES01</b> Multiple Myeloma (KOR)	ES02 Typical and Atypical Chronic Myelogenous Leukemia (KOR)	ES03 Thrombotic Microangiopathy (KOR)	
	Monoclonal Gammopathy of Renal Significance (Jung Eun Lee, Korea)	Optimal First-Line Treatment of Chronic Phase CML (Kyoung Ha Kim, Korea)	Childhood aHUS (Hae II Cheong, Korea)	
	Smoldering Multiple Myeloma (Byung-Su Kim, Korea)	Update on the Treatment of CML in Children (Jae Wook Lee, Korea)	Adult aHUS (Youngil Koh, Korea)	
	Next Generation Sequencing in Multiple Myeloma (Miyoung Kim, Korea)	BCR-ABL1 Negative Hematologic Neoplasms; Diseases that are Similar to but Different from CML (Hawk Kim, Korea)	Management of TTP (Doyeun Oh, Korea)	
10:00-10:20		Coffee Break		
10:20-11:40	<b>SS01</b> Single Cell Genomics	SS02 (KAI-KSH JOINT) Cancer Immunology		
	Single Cell Analysis of Multiple Myeloma (Woong-Yang Park, Korea)	Immune Checkpoint Inhibition in Hematologic Malignancy - Focusing on Multiple Myeloma (Yoon Seok Choi, Korea)		
	Characteristics of Tumor Infiltrating Lymphocytes Revealed by Single Cell RNA Sequencing (Zemin Zhang, China)	A New Antigen Presenting Cell based Therapeutic Cancer Vaccine (Chang-yuil Kang, Korea)		

## PROGRAM AT A GLANCE March 29 (Thu), 2018

Time	VISTA 1	VISTA 2	VISTA 3	
	Dissecting the Cellular and Genetic Composition of Pediatric	Chimeric Antigen Receptor- engineered Natural Killer Cell Immunotherapy for Cancer (Kyung-Nam Koh, Korea)		
	Leukemias by Single-Cell Genomics (Charles Gawad, USA)	Post-transplant Immunotherapy with WT1-speci c CTLs for High-risk Acute Myelogenous Leukemia (Tai-Gyu Kim, Korea)		
11:40-11:50		Break		
11:50-12:50	OP04	OP05	OP06	
12:50-13:00	Break			
13:00-14:00	[Luncheon] ST01 KYOWA KIRIN	[Luncheon] ST02 む NOVARTIS	[Luncheon] <b>ST03</b> <i>намрок</i>	
	Updated Febrile Neutropenia Management (Won Seog Kim, Korea)	It's Time We Go Deeper (Pierre Laneuville, Canada)	Complement Mediated Glomerular Disease (Focusing on aHUS): Everything Has Changed in the Last 10 Years but Still a Lot to Do (Giuseppe Remuzzi, Italy)	
14:00-15:20	Pre	<b>PL01</b> ecision Hematology in Genomics	Era	
	Precision Medicine in CLL (Constantine Tam, Australia)			
	The C	linical Management of FLT3-Mutated (Mark Levis, USA)	d AML	
15:20-15:40	Coffee Break			

<sup>\*</sup> Session Codes

PL: Plenary Lecture / SS: Scientific Session / ES: Educational Session / SP: Special Report / ST: Satellite Symposium / OP: Oral Presentation

<sup>\*</sup> Sessions will be presented in English. Only [KOR] marked sessions will be presented in Korean.



## PROGRAM AT A GLANCE March 29 (Thu), 2018

Time	VISTA 1	VISTA 2	VISTA 3	
15:40-17:00	15:40-17:00 <b>EHA-KSH Joint Symposium 01</b> Myelodysplastic Syndromes		SP01 Updates on Cellular Therapies	
	The Best Prediction of Prognosis for MDS: How to Integrate Clinical and Molecular Data (Valeria Santini, Italy)		CARTTreatment for ALL (Jae Park, USA)	
		Clinical Effects of Somatic Mutations in MDS (Je-Hwan Lee, Korea)		
	Pathogenesis and Management of Chronic Myelomonocytic Leukemias (Raphael Itzykson, France)		Ex Vivo T cell-depleted Haploidentical Hematopoietic - Cell Transplantation and Cellular - Therapy Post-transplantation - (Ho Joon Im, Korea)	
	Hypomethylating Therapy in Stem Cell Transplantation for MDS (Yoo-Jin Kim, Korea)			
17:00-17:10		Break		
17:10-18:10	OP07 OP08		OP09	
18:10-18:40	POSTER PRESENTATION 01 (Place: Exhibition Hall, B3)			
18:40-20:00	WELCOME RECEPTION (Place: Vista Hall Lobby, B2)			

## PROGRAM AT A GLANCE March 30 (Fri), 2018

Time	VISTA 1 VISTA 2		VISTA 3
08:00-09:00	OP10	OP11 OP12 (KOR)	
09:00-10:20	<b>SS03</b> Recent Advances in Acute Promyelocytic Leukemia	SS04 Recent Advances in Natural Killer T-cell Lymphoma	
	JALSG Prospective Study for APL (Akihiro Takeshita, Japan)	Molecular Pathogenesis of NKTL (Wee Joo Chng, Singapore)	OP13
	Therapy of APL (Lionel Ades, France)	Recent Advances in NK/T-Cell Lymphoma (Yok Lam Kwong, Hong Kong)	0/ 13
	Strategies to Define High-risk Patients in APL (Byung-Sik Cho, Korea)	Beyond Current Standard Care of ENKTL (Won Seog Kim, Korea)	
10:20-10:30		Break	
10:30-11:50		<b>PL02</b> Targeting Leukemic Stem Cells	
	I	Human Myeloid Leukemia Stem Cell: (Koichi Akashi, Japan)	S
	Pre-Cancerous Stem Cells in N	IDS and AML: Significance, Mechanis (Ulrich Steidl, USA)	ms, and Therapeutic Targeting
11:50-12:00		Break	
12:00-13:00	[Luncheon] ST04 AMGEN	[Luncheon] ST05 Bristol-Myers Squibb	[Luncheon] ST06 HANDOK
	Treatment of Multiple Myeloma in Relapse (Keith Stewart, USA)	Emerging Trends in CML Management (Elias Jabbour, USA)	HSCT Early Complications: Focus on Severe Hepatic Veno- occlusive Disease; -The Revised EBMT Diagnostic and Severity Criteria for Adults and an Update on Defibrotide. (Mohamad Mohty, France)

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## PROGRAM AT A GLANCE March 30 (Fri), 2018

Time	VISTA 1	VISTA 2	VISTA 3
13:00-14:20	<b>SS05</b> Cell Death Mechanism	<b>SS06</b> Bone Marrow Failure Syndrome	SS07 (KOGO-KSH JOINT) Cancer Genomics
	Apoptotic Cell Death (Soo Youl Kim, Korea)	Non-Transplant Therapy for Bone Marrow Failure (Danielle Townsley, USA)	Variability in Chromatin Architecture and Associated DNA Repair at Genomic Positions Containing Somatic Mutations (Seon-Young Kim, Korea)
	CLID Controls Nograntesis		Deciphering the Cell-of-Origin Harboring Driver Mutations in Brain Tumors
	CHIP Controls Necroptosis Through Ubiquitylation- and Lysosome-dependent	Role of Microenvironment and Genetics in BM Failure	(Jeong-Ho Lee, Korea)
	Degradation of RIPK3 (Jaewhan Song, Korea)	(Myungshin Kim, Korea)	Contribution of Germline Variants in Pan-Cancer Development (Youngil Koh, Korea)
	Functional Isolation of New Modulators in Apoptosis and Necroptosis (Yong-Keun Jung, Korea)	Inherited BM Failure Syndrome (Hoon Kook, Korea)	Developing a Genetic Data based Prognostic Model for Hematologic Cancer (SeungHyun Jung, Korea)
14:20-14:40		Coffee Break	
14:40-15:40	Asian Hematology Network:  JSH-KSH Joint Symposium  Explore Deep Inside the Asian Hematology Network		ST07 Roche
	AML Prognosis based on Clinical and Genomic Data (Hyeoung-Joon Kim, Korea)		Advancing Value-Based Approaches in the Treatment of Non-Hodgkin Lymphoma (NHL):
	the Disruption	ancer Immune Evasion Via of PD-L1 3'-UTR awa, Japan)	Contemporary Strategies and Innovations (Hyeon-Seok Eom, Korea)

## PROGRAM AT A GLANCE March 30 (Fri), 2018

Time	VISTA 1	VISTA 2	VISTA 3
15:40-17:00	<b>EHA-KSH Joint</b> Aplastic Anemia Paroxysma	Symposium 02 I Nocturnal Hemoglobinuria	<b>SP02</b> Multiple Myeloma Niche
	Diagnosis and Management of AA and Refractory Cytopenia of Childhood (Ayami Yoshimi, Germany)		Clinical Implications of MRD in Multiple Myeloma (Wee Joo Chng, Singapore)
	for Children with Severe AA Wh	rsus Immunosuppressive Treatment to Lack Matched Related Donor Kang, Korea)	The Ubiquitin-Proteasome Pathway : Friend and Foe in Multiple Myeloma
		An Update on the Management of PNH (Anita Hill, UK)	
	•	Clinical Implications of Renal Dysfunction in Patients with PNH (Jin Seok Kim, Korea)	
17:00-17:10		Break	
17:10-17:50			ST08 Takeda ONCOLOGY
	BEST ABSTRACT	BEST ABSTRACT PRESENTATION	
17:50-18:20	POSTER PRESENTATION 02 (Place: Exhibition Hall, B3)		
18:40-20:00	GALA DINNER (Place: Walkerhill Theatre, B1)		

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## PROGRAM AT A GLANCE March 31 (Sat), 2018

Time	VISTA 1	VISTA 2	VISTA 3
07:30-08:30	BUSI	NESS MEETING (Place: Cosmos H	all, 3F)
08:30-09:30	OP14	OP15	OP16 (KOR)
09:30-10:50	<b>SS08</b> Current Progress in Pediatric Acute Leukemia	SS09 Detection of Minimal Residual Disease in Hematologic Malignancy	
	New Developments in the Treatment of Newly Diagnosed and Relapsed ALL (Stephen Hunger, USA)	MRD Detection in Acute Leukemia, CLL and Multiple Myeloma (Alberto Orfao, Spain)	
		NGS-based Assessment of Clonality & MRD Determination in ALL (In-Suk Kim, Korea)	OP17
	Therapy Optimization in Infant ALL (Daisuke Tomizawa, Japan)	Selected Short Talk I Development and Preliminary Evaluation of Customized pan- Blood Cancer NGS Panel (Jun Hyung Lee, Korea)	
	Genomic Landscape and Therapy Optimization of Pediatric Mixed Phenotype Acute Leukemia (Hiroto Inaba, USA)	Selected Short Talk II Evaluation of Two Commercial Kits for Flow Cytometric MRD Detection in B-ALL (Ari Ahn, Korea)	
10:50-11:10		Coffee Break	
11:10-12:30	Dev	PL03 relopment of Precision Medicine	Trials
	Devel	opment of Precision Medicine Trials t (Stephen Hunger, USA)	for ALL
	Progr	ress in Therapy of Philadelphia Positiv (Farhad Ravandi, USA)	re ALL

## PROGRAM AT A GLANCE March 31 (Sat), 2018

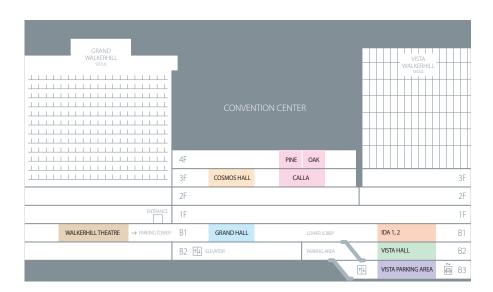
Time	VISTA 1	VISTA 2	VISTA 3
12:30-13:00	WORKING PARTY REPORTS		
13:00-13:30	AWARD CEREMONY & CLOSING MEETING		

<sup>\*</sup> Session Codes

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## FLOOR PLAN Side View



## PINE, OAK (4F)

Meeting Room

## CALLA (3F)

Meeting Room

## IDA 1, 2 (B1)

Organizing Committee VIP Room

Preview Room Registration (Lobby)

### GRAND HALL (B1)

BTG2018 Scientific Session Meeting Room Exhibition (Lobby)

### COSMOS (3F)

Exhibitor's Lunch **Business Meeting** 

### WALKERHILL THEATRE (B1)

Gala Dinner

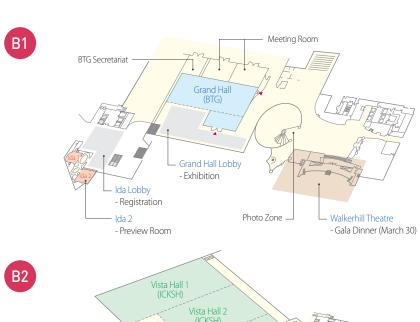
#### VISTA HALL (B2)

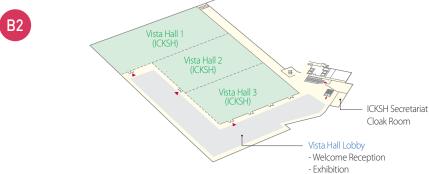
ICKSH 2018 Scientific Session Opening / Closing Ceremony Plenary Session Welcome Reception (Lobby) Exhibition (Lobby)

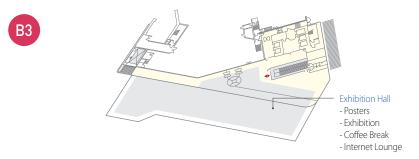
#### **EXHIBITION HALL (B3)**

Exhibition Posters Coffee Break Internet Lounge

## **FLOOR PLAN**







## **GENERAL INFORMATION**

### Registration

All participants are required to check in at the registration desk to pick up their name badge. Badges must be worn during all scientific sessions and social programs.

LOCATION IDA Lobby (B1)

OPERATION HOURS March 29 (Thu.) 07:00 - 19:00

March 30 (Fri.) 07:00 - 19:00

March 31 (Sat.) 07:00 - 13:00

## **On-site Registration Fees**

General	USD 200
Resident / Trainee / Nurse / Student	USD 100

### + Registration fees include:

Participation in all scientific sessions, exhibition, satellite symposium including lunch, coffee breaks, conference kit, welcome reception and gala dinner.

+ Conference Kit will be distributed with your name badge at the registration desk. The kit includes a Program book and Abstract book.

#### Lunch

Lunch boxes will be provided during the satellite symposium. Please bring the lunch coupon in your name badge.

LOCATION	Vista Hall 1, Vista Hall 2, Vista Hall 3 (B2)
OPERATION HOURS	March 29 (Thu.) 13:00 - 14:00
	March 30 (Fri.) 12:00 - 13:00
	March 31(Sat.) 13:00 - 13:30

#### Coffee Break

Coffee will be served at coffee break times in **Vista Hall Lobby (B2)**. Barista coffee will be provided during the conference in **Exhibition Hall (B3)**.

## **GENERAL INFORMATION**

#### Internet

- + Internet lounge is located in **Exhibition Hall (B3)** during the conference.
- + Wifi internet access is available in the entire conference venue.

#### Certificate of Attendance

Participants may receive the certificate of attendance. Please contact the ICKSH2018 Secretariat after the conference via icksh@icksh.org

### **Useful Phone Numbers**

- + Police 112
- + Fire and Ambulance 119
- + Medical Emergency 1339

#### ICKSH2018 Secretariat Office

- + Onsite: Beside the Cloak Room, Vista Hall Lobby (B2)
- T. +82-2-450-2201
- E. icksh@icksh.org
- + After conference: 1F, Haeoreum Bldg., 16 Yeoksam-ro 17Gil, Gangnam-gu, Seoul, 06246, Korea
- T. +82-2-566-6031
- F. +82-2-566-6087
- E. icksh@icksh.org

## SPEAKER INFORMATION

#### **Preview Room**

All speakers are requested to visit the preview room no later than 2 hours before their session. They will be assisted by our staff who will help upload the presentation file to the server before the session.

LOCATION IDA 2 (B1)

OPERATION HOURS March 29 (Thu.) 07:00 - 19:00

March 30 (Fri.) 07:00 - 18:00

March 31 (Sat.) 07:00 - 17:00

## **Preparatory Meeting**

To ensure the smooth communication between chairpersons and presenters, session chairs and speakers are requested to attend our Preparatory Meeting. The meeting will take place at each session room as assigned, 30 minutes prior to your session.

CODE	SESSIONS		LOC	ATION & TIME
SS01	Single Cell Genomics	March 29 (Thu.) 10:20 - 11:40	Oak	March 29 (Thu.) 09:50
SS04	Recent Advances in Natural Killer T-cell Lymphoma	March 30 (Fri.) 09:00 - 10:20	Oak	March 30 (Fri.) 08:30
SS08	Current Progress in Pediatric Acute Leukemia	March 31 (Sat.) 09:30 - 10:50	Oak	March 31 (Sat.) 09:00
SS09	Detection of Minimal Residual Disease in Hematologic Malignancy	March 31 (Sat.) 09:30 - 10:50	Pine	March 31 (Sat.) 09:00

#### **Poster Presentation**

Pre-selected posters are required to have a presentation time following the schedule below. After onsite reviews, the scientific committee will select the Best Posters. Winners should attend the Closing Ceremony on March 31 (Sat.) to receive the award.

LOCATION	Exhibition Hall (B3)
DATE & TIME	March 29 (Thu.) 18:10 - 18:40
	March 30 (Fri.) 17:50 - 18:20

## **SOCIAL PROGRAM**

### Opening

With the opening address by Congress Chairman Hwi-Joong Yoon, ICKSH2018 will begin.

LOCATION Vista 1 Hall (B2)

DATE & TIME March 29 (Thu.) 08:00

### Welcome Reception

Welcome to ICKSH2018! The Organizing Committee has prepared a marvelous welcome reception.

LOCATION Vista Hall Lobby (B2)
DATE & TIME March 29 (Thu.) 18:40 - 20:00

#### Gala Dinner

Please join us to share an unforgettable evening. Enjoy the climax of ICKSH2018 with an excellent dinner and exciting performance.

LOCATION	Walkerhill Theatre (B1)
DATE & TIME	March 30 (Fri.) 18:20 - 20:00

## SPONSORS (Acknowledgement)

























## SPONSORS (Acknowledgement)















































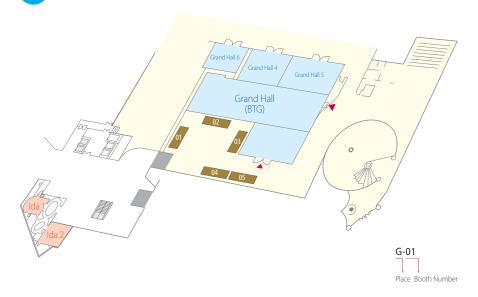






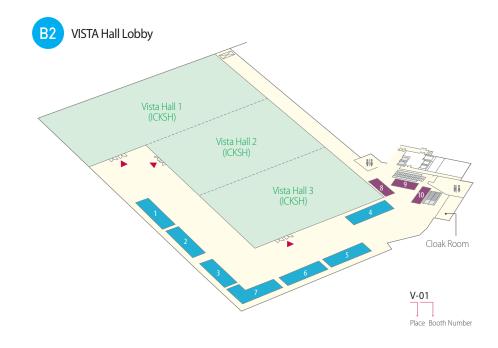
## **EXHIBITION**

## Grand Hall Lobby



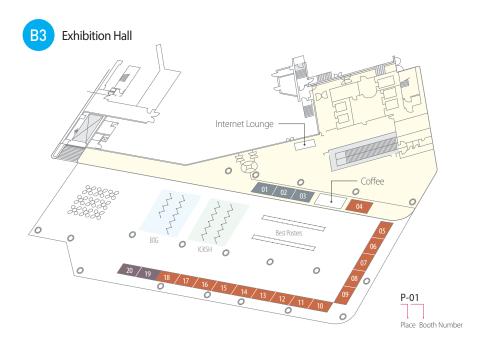
Booth No.	Grade	Company Name
G-01	Gold	Genzyme Korea
G-02	Gold	Pfizer Korea
G-03	Gold	Yuhan Corporation
G-04	Gold	Celgene
G-05	Gold	Celltrionpharm

## **EXHIBITION**



Booth No.	Grade	Company Name
V-01	Diamond	Takeda Pharmaceuticals
V-02	Diamond	Roche Korea, Co Ltd
V-03	Diamond	Amgen Korea Limited
V-04	Diamond	Kyowa Hakko Kirin Korea
V-05	Diamond	Bristol-Myers Squibb Korea
V-06	Diamond	Handok
V-07	Diamond	Novartis
V-08	Platinum	Janssen Korea
V-09	Platinum	Daewoong
V-10	Platinum	Greencross Corp.

## **EXHIBITION**



Booth No.	Grade	Company Name
P-01	Silver	Astellas Korea
P-02	Silver	JW Pharmaceutical
P-03	Silver	MSD Korea
P-04	Bronze	TEVA-Handok
P-05	Bronze	Pfizer Korea
P-06	Bronze	Sysmex Korea
P-07	Bronze	Roche Diagnostics Korea Co., Ltd.
P-08	Bronze	Daewon Pharm
P-09	Bronze	SK Plasma
P-10	Bronze	BL&H

## **EXHIBITION**

P-11	Bronze	Samyang Biopharmaceuticals Corp
P-12	Bronze	Kwangdong
P-13	Bronze	Mundipharma Korea
P-14	Bronze	Novo Nordisk Pharma Korea, Ltd.
P-15	Bronze	Shire Pharma Korea
P-16	Bronze	Korea Otsuka Pharmaceutical Co., Ltd
P-17	Bronze	Donga ST
P-18	Bronze	Boryung Pharmaceutical Co.,Ltd.
P-19	Others	E-Public
P-20	Others	The Korean Society of Blood and Marrow Transplantation

## Step Further Inside the Real World of Precision Hematology MARCH 29 - 31, 2018 Grand Walkerhill Seoul, Korea



## MARCH 29 (Thu.)



PL01-01 14:00-14:40 | VISTA Hall (B2)

Precision Medicine in CLL

#### Constantine Tam

Peter MacCallum Cancer Centre, St Vincent's Hospital



PL01-02 14:40-15:20 | VISTA Hall (B2)

The Clinical Management of FLT3-Mutated AML

#### Mark Levis

## MARCH 30 (Fri.)



PL02-01 10:30-11:10 | VISTA Hall (B2)

Human Myeloid Leukemia Stem Cells

### Koichi Akashi



PL02-02 11:10-11:50 | VISTA Hall (B2)

Pre-Cancerous Stem Cells in MDS and AML: Significance, Mechanisms, and Therapeutic Targeting

#### Ulrich Steidl

## **PLENARY LECTURES**

#### MARCH 31 (Sat.)



PL03-01

Development of Precision Medicine Trials for ALL

#### Stephen Hunger



PL03-02 11:50-12:30 | VISTA Hall (B2)

Progress in Therapy of Philadelphia Positive ALL

#### Farhad Ravandi

MD Anderson Cancer Center, USA

***************************************		



## **DAILY PROGRAM**

March 29 (Thurday)

March 30 (Friday)

March 31 (Saturday)

Dynamics of CMV and EBV Loads after Rabbit ATG and Cyclosporine: A Prospective

## **DAILY PROGRAM** March 29 (Thursday)

07:30 -	Registration Lobb	У
08:00 -	Opening Remarks Vista	1
08:00-09:00	Oral Presentation 01 (Eng.) Vista	1
Chairs	Chan-Jeoung Park (University of Ulsan College of Medicine, Korea) In Ho Kim (Seoul National University College of Medicine, Korea)	
OP01-1	Immature Platelet Fraction (IPF): A Useful Marker for Evaluating the Cause of Thrombocytopenia and Predicting Platelet Recovery Kibum Jeon (Departments of Laboratory Medicine, Hallym University Sacred Heart Hospital, Kore	a)
OP01-2	Acacia Senegal Supplementation Improve Dyslipidemia in Sickle Cell Anemia Novel Effect of Gum Arabic Lamis Kaddam (Department of Physiology, Alneelain University Faculty of Medicine, Sudan)	
OP01-3	Proof of Concept - Leukodepleted Red Blood Cells by Double Filtration Can Replace Irradiated Blood Se Jong Chun (Department of Laboratory Medicine, Chonnam National University Medical School, Korea)	
OP01-4	Establishing of Reference Intervals for 16 Complete Blood Count Parameters in Health Elderly People Eun Jin Lee (Department of Laboratory Medicine, Hallym University College of Medicine, Korea)	
08:00-09:00	Oral Presentation 02 (Eng.) Vista	2
Chairs	Ki Young Kwon (Keimyung University School of Medicine, Korea) Hye Lim Jung (Sungkyunkwan University School of Medicine, Korea)	
OP02-1	The Spectrum of Anemia in Therapy Naive Patients with Lymphoma and Myeloma from North India Gaurav Prakash (Clinical Hematology Unit, Department of Internal Medicine, PGIMER, India)	
OP02-2	Successful Treatment of Refractory Pure Red Cell Aplasia with Sirolimus Zhangbiao Long (Department of Hematology, Peking Union Medical College Hospital, China)	

	Observational Study Sung Soo Park (Catholic Blood and Marrow Transplantation Center, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea)
0P02-4	Helicobacter Pylori Testing in Patients with Pernicious Anemia Ik Chan Song (Department of Internal Medicine, College of Medicine, Chungnam National University, Korea)
08:00-09:00	Oral Presentation 03 (Kor.) Vista 3
Chairs	Chul-Won Choi (Korea Universty College of Medicine, Korea) Won-Sik Lee (Inje University College of Medicine, Korea)
0P03-1	Treatment Outcome and Prognostic Factors of Precursor T-Acute Lymphoblastic Leukemia in Children Hyery Kim (Department of Pediatric, University of Ulsan College of Medicine, Asan Medical Center, Korea)
0P03-2	Allogeneic Hematopoietic Stem Cell Transplantation for Childhood Myelodysplastic Syndrome Jae Won Yoo (Department of Pediatrics, University of Ulsan College of Medicine, Asan Medical Center Children's Hospital, Korea)
OP03-3	Cell Therapy to Control Relapsed AML following Allogeneic Stem Cell Transplantation Woo Chan Park (Department of Internal Medicine, Seoul National University Hospital, Korea)
0P03-4	Discrepancy in Efficacy of Disulfiram between NUP98-PHF23 Fusion Acute Myelogenous Leukemia Eun Sil Park (Department of Pediatrics, Institute of Health Science, College of Medicine Gyeongsang National University, Korea)
0P03-5	Arsenic Trioxide-Based Initial Treatment for Acute Promyelocytic Leukemia with High-Risk Features Gi June Min (Department of Hematology, Catholic Blood and Marrow Transplantation Center, Seoul St. Mary's Hospital, Korea)
OP03-6	Feasibility of Blinatumomab Salvage for Adult Patients with Relapsed or Refractory Ph-Negative ALL Jae-Ho Yoon (Department of Hematology, Catholic Blood and Marrow Transplantation Center, Leukemia Research Institute, Seoul St. Mary's Hospital, The Catholic University of Korea, Korea)

09:00-10:00	[ES01] Multiple Myeloma (Kor.) Vista 1
Chairs	Ki Hyun Kim (Sungkyunkwan University School of Medicine, Korea) Jin Seok Kim (Yonsei University College of Medicine, Korea)
ES01-1	Monoclonal Gammopathy of Renal Significance Jung Eun Lee (Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea)
ES01-2	Smoldering Multiple Myeloma Byung-Su Kim (Department of Hemato-Oncology, Hallym University College of Medicine, Korea)
ES01-3	Next Generation Sequencing in Multiple Myeloma Miyoung Kim (Department of Laboratory Medicine, Hallym University College of Medicine, Korea)
09:00-10:00	[ES02] Typical and Atypical Chronic Myelogenous Leukemia (Kor.) Vista 2
Chairs	Chul Won Jung (Sungkyunkwan University School of Medicine, Korea) Suk Joong Oh (Sungkyunkwan University School of Medicine, Korea)
ES02-1	Optimal First-line Treatment of Chronic Phase CML Kyoung Ha Kim (Division of Hematology-Oncology, Department of Internal Medicine, Soonchunhyang University College of Medicine, Korea)
ES02-2	Update on the Treatment of CML in Children Jae Wook Lee (Department of Pediatrics, College of Medicine, The Catholic University of Korea, Korea)
ES02-3	BCR-ABL1 Negative Hematologic Neoplasms; Diseases that are Similar to but Different from CML Hawk Kim (Division of Hematology, Gachon University College of Medicine, Korea)
09:00-10:00	[ES03] Thrombotic Microangiopathy (Kor.) Vista 3
Chairs	Kyung Duk Park (Chonbuk National University Medical School, Korea) Soo Mee Bang (Seoul National University College of Medicine, Korea)
ES03-1	Childhood aHUS Hae II Cheong (Department of Pediatrics, Seoul National University College of Medicine, Korea)

## DAILY PROGRAM March 29 (Thursday)

ES03-2	Adult aHUS Youngil Koh (Hematology & Medical Oncology, Department of Internal Medicine, Seoul National University College of Medicine, Korea)
ES03-3	Management of TTP Doyeun Oh (Department of Internal Medicine, CHA University School of Medicine, Korea)
10:00-10:20	Coffee Break Lobby
10:20-11:40	[SS01] Single Cell Genomics (Eng.) Vista 1
Chairs	Woong-Yang Park (Sungkyunkwan University School of Medicine, Korea) Dong Soon Lee (Seoul National University College of Medicine, Korea)
SS01-1	Single Cell Analysis of Multiple Myeloma Woong-Yang Park (Department of Molecular Cell Biology, Sungkyunkwan University School of Medicine, Korea)
SS01-2	Characteristics of Tumor Infiltrating Lymphocytes Revealed by Single Cell RNA Sequencing Zemin Zhang (BIOPIC and School of Life Sciences, Peking University, China)
SS01-3	Dissecting the Cellular and Genetic Composition of Pediatric Leukemias by Single-Cell Genomics Charles Gawad (Department of Oncology, Department of Computational Biology, St. Jude Children's Research Hospital, USA)
10:20-11:40	[SS02] (KAI-KSH JOINT) Cancer Immunology (Eng.) Vista 2
Chairs	Jae Hoon Lee (Gachon University College of Medicine, Korea) Chung Gyu Park (Seoul National University College of Medicine, Korea)
SS02-1	Immune Checkpoint Inhibition in Hematologic Malignancy - Focusing on Multiple Myeloma Yoon Seok Choi (Department of Internal Medicine, Chungnam National University College of Medicine, Korea)
SS02-2	A New Antigen Presenting Cell based Therapeutic Cancer Vaccine Chang-yuil Kang (Laboratory of Immunology, College of Pharmacy, Seoul National University, Korea)

SS02-3	Chimeric Antigen Receptor-Engineered Natural Killer Cell Immunotherapy for Cancer Kyung-Nam Koh (Division of Pediatric Hematology/Oncology, Department of Pediatrics, Asan Medical Center Children's Hospital, University of Ulsan College of Medicine, Korea)	
SS02-4	Post-transplant Immunotherapy with WT1-speci c CTLs for High-risk Acute Myelogenous Leukemia Tai-Gyu Kim (Department of Microbiology, Catholic Hematopoietic Stem Cell Bank, C Medicine, The Catholic University of Korea, Korea)	ollege of
11:40-11:50	Break	Lobby
11:50-12:50	Oral Presentation 04 (Eng.)	Vista 1
Chairs	Byung-Su Kim (Hallym University College of Medicine, Korea) Won Seog Kim (Sungkyunkwan University School of Medicine, Korea)	
0P04-1	Inflammatory Factor-Based Scoring System in DLBCL in the Rituximab Era Ji Hyun Lee (Department of Internal Medicine, Dong-A University College of Medicin	e, Korea)
0P04-2	Clinical Features and Treatment Outcomes of Limited State Mantle Cell Lym (CISL1606) Jae-Cheol Jo (Department of Hematology and Oncology, Ulsan University Hospital, K	
OP04-3	Poor Clinical Outcome of Epstein-Barr Virus Associated Secondary Hemoph. Lymphohistiocytosis Jae-Ho Yoon (Department of Hematology, Catholic Blood and Marrow Transplantatic Seoul St. Mary's Hospital, Korea)	,
OP04-4	3.5-Yr Follow-Up of Ibrutinib-Treated Relapsed/Refractory Mantle Cell Lymp Patients: Pooled Analysis Seok-Goo Cho (Department of Hematology, Seoul St. Mary's Hospital, The Catholic U Korea, Korea)	
11:50-12:50	Oral Presentation 05 (Eng.)	Vista 2
Chairs	Jae Yong Kwak (Chonbuk National University Medical School, Korea) Seok Lee (College of Medicine The Catholic University of Korea Korea)	

OP05-1	Clinical Significance of Secondary-Type Mutations in MDS and AML Joon-Ho Moon (Department of Hematology and Oncology, Kyungpook National University Hospital, Korea)
0P05-2	Comparable Outcomes of RIC to MAC-HCT by MRD Kinetics in Adults with Ph-Positive ALL in CR1  Jae-Ho Yoon (Department of Hematology Catholic BMT Center, Leukemia Research Institute, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea)
0P05-3	Comprehensive Analysis of Genetic Variations in Patients with Acute Lymphoblastic Leukemia Borahm Kim (Department of Laboratory Medicine, Yonsei University College of Medicine, Korea)
OP05-4	Molecular Scoring System integrated with IPSS-R in Korean Myelodysplastic syndrome Hee Sue Park (Department of Laboratory Medicine, Seoul National University College of Medicine Korea)
11:50-12:50	Oral Presentation 06 (Eng.)
Chairs	Joon Seong Park (Ajou University School of Medicine, Korea) Keon Hee Yoo (Sungkyunkwan University School of Medicine, Korea)
OP06-1	Decitabine Versus Intensive Chemotherapy for Induction Treatment of Elderly Patients with Acute Myeloid Leukemia Eun-Ji Choi (Department of Hematology, Asan Medical Center, University of Ulsan College of Medicine, Korea)
OP06-2	The Role of WT-1 as a Potential Marker to Predict Prognosis and Monitor Minimal Residual Disease Seung-Hwan Shin (Department of Hematology, Yeouido St. Mary's Hospital, The Catholic University of Korea, Korea)
OP06-3	Prognostic Factors in Children with Core Binding Factor Acute Myeloid Leukemia Jae Wook Lee (Department of Pediatrics, The Catholic University of Korea, Korea)
OP06-4	Registry-Based Study of Hematopoietic Stem Cell Transplantation in Korean Children Hee Young Ju (Department of Center for Pediatric Cancer, National Cancer Center, National Cancer Control Institute, Korea)

12:50-13:00	Break	Lobby
13:00-14:00 Chair	Luncheon Satellite Symposium 1 (Eng.) <b>KYOWA KIRIN</b> Cheol Won Suh (University of Ulsan College of Medicine, Korea)	Vista 1
	Updated Febrile Neutropenia Management Won Seog Kim (Sungkyunkwan University School of Medicine, Korea)	
13:00-14:00	Luncheon Satellite Symposium 2 (Eng.) U NOVARTIS	Vista 2
Chair	Dong-Wook Kim (College of Medicine, The Catholic University of Korea, Korea)	
	It's Time We Go Deeper Pierre Laneuville (McGill University Health Centre Montreal, Canada)	
13:00-14:00	Luncheon Satellite Symposium 3 (Eng.) HAN DOK	Vista 3
Chair	Doyeun Oh (College of Medicine, CHA University, Korea)	
	Complement Mediated Glomerular Disease(Focusing on aHUS): Everything has Changed in the Last 10 Years but Still a Lot to Do Giuseppe Remuzzi (Mario Negri Institute for Pharmacological Research, Italy)	
14:00-15:20	[PL01] Precision Hematology in Genomics Era (Eng.)	sta 1-3
Chairs	Yoo-Hong Min (Yonsei University College of Medicine, Korea) Sun Hee Kim (Sungkyunkwan University School of Medicine, Korea)	
PL01-1	Precision Medicine in CLL Constantine Tam (Peter MacCallum Cancer Centre, St Vincent's Hospital and University of Melbourne, Australia)	
PL01-2	The Clinical Management of FLT3-Mutated AML Mark Levis (Johns Hopkins School of Medicine, USA)	

15:20-15:40	Coffee Break	Lobby
15:40-17:00	[EHA-KSH Joint Symposium 01] Myelodysplastic Syndrome (Eng.)	Vista 1-2
Chairs	Je-Hwan Lee (University of Ulsan College of Medicine, Korea) Valeria Santini (University of Florence, Italy)	
EHA-KSH-01	The Best Prediction of Prognosis for MDS: How to Integrate Clinical and Mol Valeria Santini (University of Florence, Italy)	ecular Data
EHA-KSH-02	Clinical Effects of Somatic Mutations in MDS Je Hwan Lee (Department of Hematology, University of Ulsan College of Medicine, K	orea)
EHA-KSH-03	Pathogenesis and Management of Chronic Myelomonocytic Leukemias Raphael Itzykson (Department of Hematology, Paris Diderot University, France)	
EHA-KSH-04	Hypomethylating Therapy in Stem Cell Transplantation for MDS Yoo-Jin Kim (Department of Hematology, College of Medicine, The Catholic Universit Korea)	y of Korea,
15:40-17:00	[SP01] Updates on Cellular Therapies (Eng.)	Vista 3
Chairs	Ulrike Koehl (University Hospital Leipzig and Hannover Medical School, Germany) Tai-Gyu Kim (College of Medicine, The Catholic University of Korea, Korea)	
SP01-1	CAR T Treatment for ALL Jae Park (Memorial Sloan-Kettering Cancer Center and Weill Cornell Medical College,	USA)
SP01-2	CAR Expressing Effector Cells in Stem Cell Transplantation Ulrike Koehl (University Hospital Leipzig and Hannover Medical School, Germany)	
SP01-3	Ex Vivo T cell-depleted Haploidentical Hematopoietic Cell Transplantation a Therapy Post-transplantation Ho Joon Im (Department of Pediatrics, University of Ulsan College of Medicine, Korea	
17:00-17:10	Coffee Break	Lobby

17:10-18:10	Oral Presentation 07 (Eng.) Vista	1
Chairs	Jong Ho Won (Soon Chun Hyang University College of Medicine, Korea) Joo Seop Chung (Pusan National University College of Medicine, Korea)	
OP07-1	The Clinical Outcomes of Lenalidomide and Dexamethasone in Patients with Relapsed Multiple Myeloma  Ho Sup Lee (Department of Internal Medicine, Kosin University College of Medicine, Korea)	k
OP07-2	Prognostic Significance of Clonal Evolution by Bone Marrow Cytogenetic Analysis in Multiple Myeloma Chang Ahn Seol (Department of Laboratory Medicine, University of Ulsan College of Medicine and Asan Medical Center, Korea)	
OP07-3	3-Methyladenine Potentiates Apoptosis of Myeloma Cells via Mitochondrial Reactive Oxygen Species Yeung-Chul Mun (Department of Hematology, Ewha Womans University, Korea)	
0P07-4	The Safety and E cacy of Pomalidomide in Combination with Cyclophosphamide and Dexamethasone (PCD)  Ho Sup Lee (Department of Internal Medicine, Kosin University College of Medicine, Korea)	
17:10-18:10	Oral Presentation 08 (Eng.) Vista	2
Chairs	Seong Kyu Park (Soon Chun Hyang University College of Medicine , Korea) Yoo-Jin Kim (College of Medicine, The Catholic University of Korea, Korea)	
OP08-1	Targeted NGS Identifies a Novel Nonsense Mutation in SPTB for Hereditary Spherocytosi Joon Hong Park (Department of Laboratory Medicine, College of Medicine, The Catholic University of Korea, Korea)	S
OP08-2	Mitochondrial Genomic Analysis in Patients with Myelodysplastic Syndromes and Other Myeloid Malignancies Seon Young Kim (Department of Laboratory Medicine, Chungnam National University School of Medicine, Chungnam National University Hospital, Cancer Research Institute, Korea)	
OP08-3	Comprehensive Genomic Analyses of Core-Binding Factor AML from Serial Samples Taehyung Kim (Department of Computer Science, University of Toronto, The Donnelly Centre for Cellular and Biomolecular Research, Canada)	

OP08-4	TET2 and MicroRNA-22 in Myelodysplastic Syndrome Patients Hypomethylating Agents Se Hyung Kim (Department of Internal Medicine, Division of Hemato University Bucheon Hospital, Korea)	
17:10-18:10	Oral Presentation 09 (Eng.)	Vista 3
Chairs	June-Won Cheong (Yonsei University College of Medicine, Korea) Sung-Hyun Kim (Dong-A University College of Medicine, Korea	
OP09-1	Evaluate the Effect of Imatinib in Treatment Chronic Myeloid I Quoc Thanh Nguyen (Department of Hematology, University of Med Chi Minh city , 2nd Pediatric, Blood Transfusion and Hematology in He Medical University, Vietnam)	icine and Pharmacy in Ho
OP09-2	Evaluation of 10-Year Imatinib's Treatment E ects on Chronic Min Chronic Phase Nguyen Phuong Dung Co (Department of Hematology, Pham Ngoc' Ha Noi Medical University, Blood Transfusion and Hematology in Ho	Thach Medical University,
OP09-3	The Significance of Very Early Molecular Response with Frontl in CML Patients Won-Sik Lee (Department of Internal Medicine, Inje University Busan	
OP09-4	Deeper Molecular Response in Newly Diagnosed CML-CP Pat Radotinib: RERISE 3 Years FU Youngrok Do (Department of Hematology and Oncology, Departme Medical Center, Keimyung University, Korea)	J
18:10-18:40	Poster Presentation 01	Exhibition Hall, B3
18:40-20:00	Welcome Reception	Vista Hall Lobby, B2

08:00-09:00	Oral Presentation 10 (Eng.)	Vista 1
Chairs	Young-Ho Lee (Hanyang University College of Medicine, Korea) Ki-Seong Eom (College of Medicine, The Catholic University of Korea, Korea)	
0P10-1	Gene Spectrum Analysis of Thalassemia Carriers Residing in Northern China Wenzhe Zhou (Department of Hematology, Peking Union Medical Collage, Chinese Aca Medical Science, China)	deme of
OP10-2	Comparison of Gene Spectrum of Thalassemia in Northern, Southern China ar Southeast Asia Quexuan Cui (Department of Hematology, Peking Union Medical Collage Hospital, Chin Academe of Medical Science, China)	
OP10-3	ThalPred: A Web-Based Decision Making Tool for Discriminating Thalassemia Ti Iron Deficiency Pornlada Nuchnoi (Department of Clinical Microscopy, Faculty of Medical Technology, N University, Thailand)	
OP10-4	Epidemiology of Hereditary Hemolytic Anemia for 10 Years (2007-2016): RBC DWP Study Ye Jee Shim (Department of Pediatrics, Keimyung University School of Medicine and Do Medical Center, Korea)	
08:00-09:00	Oral Presentation 11 (Eng.)	Vista 2
Chairs	Seok-Lae Chae (College of Medicine, Dongguk University, Korea) Dae-Chul Jeong (College of Medicine, The Catholic University of Korea, Korea)	
0P11-1	Nutritional Iron Deficiency Anemia: Magnitude and Its Predictors among Scho Children, Southwest, Ethiopia Amare Desalegn Wolide (Department of Biomedical Sciences, Jimma University, Ethiopia	J
OP11-2	Prevalence of Inherited Hemoglobin Disorders and Relationships with Anemia Micronutrient Status Yannick Oyono (Department of Medical Labortory Sciences, University of Buea, Centre P Cameroon)	
0P11-3	Impact of Thrombocytopenia on In-Hospital Outcome in Patients with Acute S Ru Liu (Department of Cardiology, Fuwai Hospital, National Center for Cardiovascular Dis China)	

## **DAILY PROGRAM** March 30 (Friday)

0P11-4	Important Factors to Increase the Survival in Hemophilia Patient with Life-Threatening Hemorrhage Kun Soo Lee (Department of Pediatrics, Kyungpook National University School of Medicine, Korea)
08:00-09:00	Oral Presentation 12 (Kor.) Vista 3
Chairs	Ho Jin Shin (Pusan National University College of Medicine, Korea) Seonyang Park (Inje University College of Medicine, Korea)
0P12-1	Comparison of Outcomes between Unrelated Donor and Haploidentical Transplantation in Aplastic Anemia Sung Soo Park (Department of Hematology, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea)
0P12-2	Role of FDG PET for Evaluation of Bone Marrow Status and Prognosis Prediction in T-Cell Lymphomas Go-Un Woo (Department of Internal Medicine, Seoul National University Hospital, Korea)
0P12-3	Nutritional Status and Cardiovascular Risk Factors Affect Survival of DLBCL Ji Hyun Lee (Department of Internal Medicine, Dong-A University College of Medicine, Korea)
0P12-4	Experience of Levetiracetam for Prevention of Busulfan-Induced Seizures in Adult HSCT Patients Soo-Jeong Kim (Department of Internal Medicine, Yonsei University College of Medicine, Korea)
OP12-5	Clinical Factors to Predict the Engraftment in Low CD34 Count Autologous Stem Cell Transplantation Sang-A Kim (Department of Internal Medicine, Seoul National University Hospital, Korea)
OP12-6	Efficacy and Safety of Bendamustine Plus Rituximab as Early Salvage Treatment in Relapsed/Refractory NHL Young-Woo Jeon (Department of Hematology, Catholic Blood and Marrow Transplantation Center, Seoul St. Mary's Hospital, Korea)
09:00-10:20	[SS03] Recent Advances in Acute Promyelocytic Leukemia (Eng.) Vista 1
Chairs	Hee-Je Kim (College of Medicine, The Catholic University of Korea, Korea) Lionel Ades (Hôpital Saint-Louis, Paris Diderot University, France)

SS03-1	JALSG Prospective Study for APL Akihiro Takeshita (Department of Transfusion and Cell Therapy, Hamamatasu University Sch Medicine, Japan)	nool of
SS03-2	Therapy of APL Lionel Ades (Hematology, Hôpital Saint-Louis, Paris Diderot University, France)	
SS03-3	Strategies to Define High-risk Patients in APL Byung-Sik Cho (Department of Hematology, Seoul St. Mary's Hospital, The Catholic Unive Korea, Korea)	rsity of
09:00-10:20	[SS04] Recent Advances in Natural Killer T-cell Lymphoma (Eng.)	Vista 2
Chairs	Seok-Goo Cho (College of Medicine, The Catholic University of Korea, Korea) Wee Joo Chng (National University Cancer Institute, Singapore)	
SS04-1	Molecular Pathogenesis of NKTL Wee Joo Chng (National University Cancer Institute, Singapore)	
SS04-2	Recent Advances in NK/T-Cell Lymphoma Yok Lam Kwong (Department of Medicine, University of Hong Kong, Hong Kong)	
SS04-3	Beyond Current Standard Care of ENKTL Won Seog Kim (Division of Hematology-Oncology, Samsung Medical Center, Sungkyunk University School of Medicine, Korea)	wan
09:00-10:00	Oral Presentation 13 (Eng.)	Vista 3
Chairs	Myungshin Kim (College of Medicine, The Catholic University of Korea, Korea) Jin Yeong Han (Dong-A University College of Medicine, Korea)	
0P13-1	Quality of Life in Patients with Type I Gaucher Disease after Long Term Enzyme Replacement Therapy Hongmin Li (Department of Hematology, Peking Union Medical College Hospital, China)	
OP13-2	Hematological Finding and Clinical Profile in Pulmonary Tuberculosis among HIV P Petrus Kanisius Yogi Hariyanto (Department of Medicine, Faculty of Medicine, Udayana Ur Indonesia)	

## **DAILY PROGRAM** March 30 (Friday)

0P13-3	Cefepime Versus Cefepime Plus Amikacin For Febrile Neutropenia In Pediatric Cancer Patients Na Hee Lee (Department of Pediatrics, Cha Bundang Medical Center, Cha University, Korea)
OP13-4	Detection of Bacteremia MRSA Using a Novel Isothermal Ampli cation with SPR Biosensor Methodology Zhenbo Xu (Department of Microbial Pathogenesis, School of Food Sciences and Engineering, South China University of Technology, Guangdong Province Key Laboratory for Green Processing of Natural Products and Product Safety, School of Dentistry, University of Maryland, China)
10:20-10:30	Coffee Break Lobby
10:30-11:50	[PL02] Targeting Leukemic Stem Cells (Eng.) Vista 1-3
Chairs	Hyeoung-Joon Kim (Chonnam National University Medical School, Korea) Dong-Wook Kim (College of Medicine, The Catholic University of Korea, Korea)
PL02-1	Human Myeloid Leukemia Stem Cells Koichi Akashi (Department of Medicine and Biosystemic Science, Graduate School of Medical Science, Kyushu University, Japan)
PL02-2	Pre-Cancerous Stem Cells in MDS and AML: Significance, Mechanisms, and Therapeutic Targeting Ulrich Steidl (Department of Cell Biology, and Department of Medicine, Albert Einstein College of Medicine, USA)
11:50-12:00	Break Lobby
12:00-13:00	Luncheon Satellite Symposium 4 (Eng.) AMGEN° Vista 1
Chair	Chang-Ki Min (College of Medicine, The Catholic University of Korea, Korea)
	Treatment of Multiple Myeloma in Relapse Keith Stewart (Mayo Clinic, USA)

12:00-13:00	Luncheon Satellite Symposium 5 (Eng.)    Bristol-Myers Squibb   Vista 2	
Chair	Dong-Wook Kim (College of Medicine, The Catholic University of Korea, Korea)	
	Emerging Trends in CML Management Elias Jabbour (Leukemia Department, MD Anderson Cancer Center, USA)	
12:00-13:00	Luncheon Satellite Symposium 6 (Eng.) HANDOK Vista 3	
Chair	Jong Wook Lee (College of Medicine, The Catholic University of Korea, Korea)	
	HSCT Early Complications: Focus on Severe Hepatic Veno-occlusive Disease; - The Revised EBMT Diagnostic and Severity Criteria for Adults and an Update on Defibrotide Mohamad Mohty (Clinical Hematology and Cellular Therapy Dpt., Sorbonne University, Hôpital Saint-Antoine, France)	
13:00-14:20	[SS05] Cell Death Mechanism (Eng.) Vista 1	
Chairs	Myung-Geun Shin (Chonnam National University Medical School, Korea) Yong Goo Kim (College of Medicine, The Catholic University of Korea, Korea)	
SS05-1	Apoptotic Cell Death Soo Youl Kim (Cancer Microenvironment Branch, Division of Cancer Biology, National Cancer Center, Korea)	
SS05-2	CHIP Controls Necroptosis through Ubiquitylation- and Lysosome-Dependent Degradation of RIPK3  Jaewhan Song (Department of Biochemistry, Yonsei University, Korea)	
SS05-3	Functional Isolation of New Modulators in Apoptosis and Necroptosis Yong-Keun Jung (School of Biological Science, Seoul National University, Korea)	
13:00-14:20	[SS06] Bone Marrow Failure Syndrome (Eng.) Vista 2	
Chairs	Ki Woong Sung (Sungkyunkwan University School of Medicine, Korea) Danielle Townsley (Clinical Development – Oncology, Medimmune LLC, USA)	
SS06-1	Non-Transplant Therapy for Bone Marrow Failure Danielle Townsley (Clinical Development – Oncology, Medimmune LLC, USA)	

## DAILY PROGRAM March 30 (Friday)

Role of Microenvironment and Genetics in BM Failure

SS06-2

	Myungshin Kim (Department of Laboratory Medicine, College of Medicine, The Catholic University of Korea, Korea)
SS06-3	Inherited BM Failure Syndrome Hoon Kook (Department of Pediatrics, Chonnam National University Medical School, Korea)
13:00-14:20	[SS07] (KOGO-KSH Joint) Cancer Genomics (Eng.) Vista 3
Chairs	Sung-Soo Yoon (Seoul National University College of Medicine, Korea) Hyoung-Pyo Kim (Yonsei University College of Medicine, Korea)
SS07-1	Variability in Chromatin Architecture and Associated DNA Repair at Genomic Positions Containing Somatic Mutations Seon-Young Kim (Gene Editing Research Center, Korea Research Institute of Bioscience & Biotechnology (KRIBB), Korea)
SS07-2	Deciphering the Cell-of-Origin Harboring Driver Mutations in Brain Tumors Jeong-Ho Lee (Graduate School of Medical Science and Engineering, Korea Advanced Institute of Science and Technology (KAIST), Korea)
SS07-3	Contribution of Germline Variants in Pan-Cancer Development Youngil Koh (Hematology & Medical Oncology, Department of Internal Medicine, Seoul National University College of Medicine, Korea)
SS07-4	Developing a Genetic Data based Prognostic Model for Hematologic Cancer SeungHyun Jung (Cancer Evolution Research Center, College of Medicine, The Catholic University of Korea, Korea)
14:20-14:40	Coffee Break Lobby
14:40-15:40	[Asian Hematology Network: JSH-KSH Joint Symposium] Vista 1-2 Explore Deep Inside the Asian Hematology Network (Eng.)
Chairs	Seishi Ogawa (Graduate School of Medicine, Kyoto University, Japan) Hwi-Joong Yoon (Kyung Hee University College of Medicine, Korea)
JSH-KSH-01	AML Prognosis based on Clinical and Genomic Data Hyeoung-Joon Kim (Department of Internal Medicine, Chonnam National University Medical School, Korea)

JSH-KSH-02	A Novel Mechanism of Cancer Immune Evasion Via the Disruption of PD-L1 3'-UTR Seishi Ogawa (Department of Pathology and Tumor Biology, Graduate School of Medicine, Kyoto University, Japan)
14:40-15:40	Satellite Symposium 7 (Eng.) Roche Vista 3
Chair	Won Seog Kim (Sungkyunkwan University School of Medicine, Korea)
	Advancing Value-Based Approaches in the Treatment of Non-Hodgkin Lymphoma (NHL): Contemporary Strategies and Innovations Hyeon-seok Eom (National Cancer Center, Korea)
15:40-17:00	[EHA-KSH Joint Symposium 02] Vista 1-2 Aplastic Anemia/Paroxysmal Nocturnal Hemoglobinuria (Eng.)
Chairs	Hoon Kook (Chonnam National University Medical School, Korea) Anita Hill (St. James' University Hospital, UK)
EHA-KSH 02-01	Diagnosis and Management of AA and Refractory Cytopenia of Childhood Ayami Yoshimi (Department of Paediatrics and Adolescent Medicine, University Children's Hospital, Freiburg, Germany)
EHA-KSH 02-02	Frontline Alternative Donor SCT versus Immunosuppressive Treatment for Children with Severe AA who Lack Matched Related Donor Hyoung Jin Kang (Department of Pediatrics, Seoul National University College of Medicine, Korea)
EHA-KSH 02-03	An Update on the Management of PNH Anita Hill (St. James' University Hospital, UK)
EHA-KSH 02-04	Clinical Implications of Renal Dysfunction in Patients with PNH Jin Seok Kim (Department of Internal Medicine, Yonsei University College of Medicine, Korea)
15:40-17:00	[SP02] Multiple Myeloma Niche (Eng.) Vista 3
Chairs	Robert Orlowski (The University of Texas MD Anderson Cancer Center (MDACC), USA) Je-Jung Lee (Chonnam National University Medical School, Korea)
SP02-1	Clinical Implications of MRD in Multiple Myeloma Wee Joo Chng (National University Cancer Institute, Singapore)

## **DAILY PROGRAM** March 30 (Friday)

SP02-2	The Ubiquitin-Proteasome Pathway: Friend and Foe in N Robert Orlowski (Department of Lymphoma/Myeloma, Division of Texas MD Anderson Cancer Center, USA)	' '
SP02-3	Cellular Immunotherapy in Multiple Myeloma Je-Jung Lee (Department of Hematology-Oncology, Chonnam School, Korea)	National University Medical
17:00-17:10	Break	Lobby
17:10-17:50	Best Abstract Presentation (Eng.)	Vista 1-2
Chairs	Hwi-Joong Yoon (Kyung Hee University College of Medicine, Ko	rea)
BP-01	RAG1 High Expression Associated with IKZF1 Dysfunction Leukemia Zheng Ge (Zhongda Hospital, Medical School of Southeast Univ	
BP-02	Decision Supporting Tool for Thrombotic Microangiopathy Based on Machine Learning Technique Youngil Koh ((Hematology & Medical Oncology, Department of Internal Medicine, Seoul National University College of Medicine, Korea))	
BP-03	Aberrant ARID5B Expression and IKAROS Regulation in A Chunhua Song (Pennsylvania State University Medical College, I	
17:10-17:50 Chair	Satellite Symposium 8 (Eng.)  Jae Hoon Lee (Gachon University College of Medicine, Korea)  Novel Treatment Strategies for Multiple Myeloma: A Focus Antonio Palumbo (Distinguished Research Fellow Oncology, Take AG, Italy)	
17:50-18:20	Poster Presentation 02	Exhibition Hall, B3
18:20-20:00	Gala Dinner	Walkerhill Theatre B1

## **DAILY PROGRAM** March 31 (Saturday)

08:30-09:30	Oral Presentation 14 (Eng.)	Vista 1
Chairs	Deog Yeon Jo (Chungnam National University College of Medicine , Korea) Chuhl Joo Lyu (Yonsei University College of Medicine, Korea)	
OP14-1	Comparative Study of Porcine ALG and Rabbit ATG as a First-Line Treatment of Aplastic Anemia Miao Chen (Department of Hematology, Peking Union Medical College Hospital, China)	Severe
0P14-2	PIGA Mutations as a Predictors of Treatment Response in PNH Dajeong Jeong (Department of Laboratory Medicine, Seoul National University College of Medicine, Korea)	of
OP14-3	Prognostic Implications of Renal Dysfunction in Korean Patients with PNH Jin Seok Kim (Department of Internal Medicine, Division of Hematology, Severance Hosp Yonsei University College of Medicine, Korea)	ital,
OP14-4	Dynamics of PNH Clone in Adult Patients with PNH/aplastic Anemia Following Immunosuppressive Therapy Sung-Soo Park (Catholic Blood and Marrow Transplantation Center, Catholic Blood and Marrow Transplantation Center, Seoul St. Mary's Hospital, College of Medicine, The Catholic University Korea, Korea)	
08:30-09:30	Oral Presentation 15 (Eng.)	Vista 2
Chairs	Hong Ghi Lee (Konkuk University School of Medicine, Korea) Deok Hwan Yang (Chonnam National University Medical School, Korea)	
OP15-1	Analysis of Genetic Variants Related to the Hepatic Veno-Occlusive Disease in P Patients Receiving HSCT with Targeted Dose Busulfan Based Conditioning Jung Yoon Choi (Department of Pediatrics, Cancer Research Institute, Seoul National Unicollege of Medicine, Korea)	
OP15-2	Enhanced Immunosuppressive Properties of Human Mesenchymal Stem Cells by Inflammatory Stimuli Dae Seong Kim (Department of Pediatrics, Stem Cell and Regenerative Medicine Institute Future Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine	e for
0P15-3	Ruxolitinib Treatment for Steroid-Refractory Graft-Versus-Host Disease Han-Seung Park (Department of Hematology, Asan Medical Center, University of Ulsan C Medicine, Korea)	ollege of

## **DAILY PROGRAM** March 31 (Saturday)

0P15-4	Change of Gut Bacterial Diversity by Antibiotics Correlates with the Occurrence of Intestinal GVHD Chang-Ki Min (Department of Hematology, Seoul St. Mary's Hospital, The Catholic University of
	Korea, College of Medicine, Korea)
08:30-09:30	Oral Presentation 16 (Kor.) Vista 3
Chairs	Hyeon Jin Park (National Cancer Center, Korea) Seongsoo Jang (University of Ulsan College of Medicine, Korea)
OP16-1	Mean Platelet Volume and Platelet Distribution Width Reflect the Pathophysiology of ITP and ET
	Eunyup Lee (Department of Laboratory Medicine, Hallym University Sacred Heart Hospital, Korea)
OP16-2	Clinical Features and Outcomes of Borderline Thrombocytopenia: A Single Center Experience
	Ik Chan Song (Department of Internal Medicine, College of Medicine, Chungnam National University, Korea)
OP16-3	Genetic Confirmation of Platelet Function Disorders by Diagnostic Exome Sequencing (K-PHOG Study)
	Ye Jee Shim (Department of Pediatrics, Keimyung University School of Medicine and Dongsan Medical Center, Korea)
OP16-4	Hot-Line to Increase the Survival in Hemophilia Patient with Life-Threatening Hemorrhage Kun Soo Lee (Department of Pediatrics, Kyungpook National University School of Medicine, Korea)
OP16-5	Effect of Peramivir on Platelet Counts in Patients with Suspected or Confirmed Influenza Infection
	Young-Gon Kim (Department of Laboratory Medicine, Korea University Medical Center, Korea)
OP16-6	Immature Platelet Fraction as a Predictor of Bone Marrow Cellularity in Thrombocytopenic Patients
	Ha Jin Lim (Department of Laboratory Medicine, Chonnam National University Medical School and Chonnam National University Hwasun Hospital, Korea)
09:30-10:50	[SS08] Current Progress in Pediatric Acute Leukemia (Eng.) Vista 1
Chairs	Stephen Hunger (Children's Hospital of Philadelphia, USA)

Ho Joon Im (University of Ulsan College of Medicine, Korea)

## **DAILY PROGRAM** March 31 (Saturday)

SS08-01	New Developments in the Treatment of Newly Diagnosed and Relapsed ALL Stephen Hunger (Division of Pediatric Oncology, Center for Childhood Cancer Research, Children's Hospital of Philadelphia, USA)	
SS08-02	Therapy Optimization in Infant ALL Daisuke Tomizawa (Division of Leukemia and Lymphoma, Children's Cancer Center, National Center for Child Health and Development, Japan)	
SS08-03	Genomic Landscape and Therapy Optimization of Pediatric Mixed Phenotype Leukemia Hiroto Inaba (Leukemia/Lymphoma Division, Department of Oncology, St. Jude Childre Research Hospital, USA)	
09:30-10:50	[SS09] Detection of Minimal Residual Disease in Hematologic Malignancy (Eng.)	Vista 2
Chairs	Hee Young Shin (Seoul National University College of Medicine, Korea) Alberto Orfao (University of Salamanca (USAL), Spain)	
SS09-01	MRD Detection in Acute Leukemia, CLL and Multiple Myeloma Alberto Orfao (University of Salamanca (USAL), Spain)	
SS09-02	NGS-based Assessment of Clonality & MRD Determination in ALL In-Suk Kim (Department of Laboratory Medicine, Pusan National University School of N Korea)	ledicine,
SS09-03	[Selected Short Talk I] Development and Preliminary Evaluation of Customized Blood Cancer NGS Panel Jun Hyung Lee (Department of Laboratory Medicine, Chonnam National University Meschool, Chonnam National University Hwasun Hospital, Korea)	
SS09-04	[Selected Short Talk II] Evaluation of Two Commercial Kits for Flow Cytometric Detection in B-ALL Ari Ahn (Department of Laboratory Medicine, University of Ulsan College of Medicine a Medical Center, Korea)	
09:30-10:30	Oral Presentation 17 (Eng.)	Vista 3
Chairs	Sang Kyun Sohn (Kyungpook National University School of Medicine, Korea)	

Nak Gyun Chung (College of Medicine, The Catholic University of Korea, Korea)

## **DAILY PROGRAM** March 31 (Saturday)

0P17-1

	Blasts in Childhood acute Leukemia Kyung-Nam Koh (Department of Pediatrics, Division of Pediatric Hematology and C Medical Center Children's Hospital, University of Ulsan College of Medicine, Korea)	)ncology, Asan
0P17-2	Reversal of Cytarabine Resistance in AML-OCI2 Cell Line after Na/H Exchanger June-Won Cheong (Department of Internal Medicine, Division of Hematology, Yon College of Medicine, Korea)	
0P17-3	The Role of Myeloid-Derived Suppressor Cell-Like Blasts in Acute Myeloid Shin Young Hyun (Department of Internal Medicine, Division of Hematology and C Yonsei University Wonju College of Medicine, Korea)	
0P17-4	The Clinical Implication of Cytogenetic Clonal Evolution Pattern in Relapse Patients Ji Hyun Lee (Department of Internal Medicine, Dong-A University College of Medic	
10:50-11:10	Coffee Break	Lobby
11:10-12:30	[PL03] Development of Precision Medicine Trials (Eng.)	Vista 1-3
Chairs	Hong Hoe Koo (Sungkyunkwan University School of Medicine, Korea) Kyoo Hyung Lee (University of Ulsan College of Medicine, Korea)	
PL03-01	Development of Precision Medicine Trials for ALL Stephen Hunger (Division of Pediatric Oncology, Center for Childhood Cancer Reseat Hospital of Philadelphia, USA)	arch, Children's
PL03-02	Progress in Therapy of Philadelphia Positive ALL Farhad Ravandi (Department of Leukemia, University of Texas – MD Anderson Cancel	er Center, USA)
12:30-13:00	Working Party Reports	Vista 1-3
13:00-13:30	Award Ceremony & Closing Meeting	Vista 1-3

Expression of Inhibitory Receptors on Ticells and Inhibitory Ligands on Leukemic



#### PP-01 ~ PP-22 : Poster Presentation 01

March 29 (Thursday) 18:10-18:40

### Statin Promotes Apoptosis by Activating JNK Signaling in FLT3-ITD Acute Myeloid Leukemia Cells

Ji Eun Jang<sup>1</sup>, So-Young Seol<sup>2</sup>, Dohyu Hwang<sup>3</sup>, Ju-In Eom<sup>2</sup>, Hoi-Kyung Jeung<sup>2</sup>, Soo-Jeong Kim<sup>1</sup>, Jin Seok Kim<sup>1</sup>, June-Won Cheong<sup>1</sup>, Yoo Hong Min\*<sup>1</sup>

<sup>1</sup> Department of Internal Medicine, Yonsei University College of Medicine, Korea

<sup>2</sup> Avison Biomedical Research Center, Yonsei University College of Medicine, Korea

<sup>3</sup> Department of Internal medicine, Catholic Kwndong University, Korea

### The Synergistic Effect of DMNT Inhibitors and Nutlin-3 on Apoptosis of of TP53 Wild Type AML in Vitro

Ji Eun Jang<sup>1</sup>, Ju-In Eom<sup>2</sup>, Hoi-Kyung Jeung<sup>2</sup>, Haerim Chung<sup>1</sup>, So-Young Seol<sup>2</sup>, Soo-Jeong Kim<sup>1</sup>, Jin Seok Kim<sup>1</sup>, June-Won Cheong<sup>1</sup>, Yoo Hong Min\*<sup>1</sup>

<sup>1</sup> Department of Internal Medicine, Yonsei University College of Medicine, Korea

<sup>2</sup> Avison Biomedical Research Center, Yonsei University College of Medicine, Korea

#### PP-03 Calcium Blocker-Induced Interference Effects on Steroid Resistance in Acute Lymphoblastic Leukemia

Hyun Joo Jung<sup>1</sup>, Eunhee Han<sup>2</sup>, Jun Eun Park\*<sup>3</sup>

<sup>1</sup> Department of Pediatrics, Ajou University Hospital, Ajou University School of Medicine, Korea

<sup>2</sup> Department of Pediatrics, Ajou University School of Medicine, Korea

<sup>3</sup> Department of Pediatrics, Ajou University Hospital, Ajou University School of Medicine, Korea

### Role of High-Dose Cytarabine as Consolidation Therapy before Allogeneic HCT for AML without CBF

Yoojin Lee<sup>1</sup>, Sangkyun Sohn\*<sup>1</sup>, Joonho Moon<sup>1</sup>, Dongwon Back<sup>1</sup>, Hyeoung-Joon Kim<sup>2</sup>, Jae-Sook Ahn<sup>2</sup>, Seo-Yeon Ahn<sup>2</sup>, Sung-Hoon Jung<sup>2</sup>

<sup>1</sup> Hematology, Kyungpook National University Hospital, Korea

<sup>2</sup> Hematology, Chonnam National University Hwasun Hospital, Korea

## The Efficacy of Daily ATRA Monotherapy as Maintenance Therapy for Newly Diagnosed APL

Yoojin Lee, Sangkyun Sohn, Joonho Moon, Dongwon Back Hematology, Kyungpook National University Hospital, Korea

#### MiR-424/-503 Regulates Expression of Cobll1 in Chronic Myeloid Leukemia

Seung Hun Han<sup>1</sup>, Soo-Hyun Kim<sup>2</sup>, Hyoung-June Kim<sup>1</sup>, Yoonsung Lee<sup>3</sup>, Soo-Young Choi<sup>2</sup>, Do-Hyun Kim<sup>4</sup>, Aram Lee<sup>5</sup>, Kibeom Park<sup>1</sup>, Jongmin Kim<sup>5</sup>, Je-Min Choi<sup>4</sup>, Yonghwan Kim<sup>5</sup>, Kyungjae Myung<sup>3</sup>, Hongtae Kim<sup>1</sup>, Dong-Wook Kim\*2,6

<sup>1</sup> Department of Biological Sciences, Sungkyunkwan University, Korea

## POSTER PRESENTATIONS

<sup>3</sup> Center for Genomic Integrity Institute for Basic Science (IBS), Ulsan National Institute of Science and Technology, Korea

<sup>4</sup> Department of Life Science, Hanyang University, Korea

<sup>5</sup> Department of Life Systems, Sookmyung Women's University, Korea

<sup>6</sup> Department of Hematology, Seoul St. Mary's Hospital, The Catholic University of Korea, Korea

### Comparison of Treatment Strategies in CML Patients with Suboptimal Molecular Response to Imatinib

Sung-Eun Lee<sup>1,9</sup>, Soo-Young Choi<sup>1</sup>, Soo-Hyun Kim<sup>1</sup>, Saengsuree Jootar<sup>2</sup>, Hyeoung-Joon Kim<sup>3</sup>, Sang-Kyun Sohn⁴, Joon Seong Park⁵, Sung-Hyun Kim⁶, Dae-Young Zangˀ, Suk-Joong Oh՞, Dong-Wook Kim\*¹.

<sup>1</sup> Leukemia Research Institute, The Catholic University of Korea, Korea

<sup>2</sup> BMT Program, Ramathibodi Hospital, Mahidol University, Thailand

<sup>3</sup> Department of Hematology, Chonnam National University Medical School, Chonnam National University Hwasun

<sup>4</sup> Department of Oncology/Hematology, Kyungpook National University Hospital, Korea

<sup>5</sup> Department of Hematology/Oncology, Ajou University School of Medicine, Korea

<sup>6</sup> Department of Internal Medicine, Dong-A University, College of Medicine, Korea

<sup>7</sup> Department of Internal Medicine, Hallym University College of Medicine, Korea

<sup>8</sup> Department of Internal Medicine, Kangbuk Samsung Hospital, Korea

<sup>9</sup> Department of Hematology, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea

### Compound Mutations are the Major Components of Multiple Mutations Detected in TKI Resistant CMI

Ki-Hoon Kang<sup>1</sup>, Soo-Hyun Kim<sup>1</sup>, Soo-Young Choi<sup>1</sup>, Sung-Eun Lee<sup>1,2</sup>, Hae-Lyun Yoo<sup>1</sup>, Mi-Young Lee<sup>1</sup>, Hye-Young Song<sup>1</sup>, Kyung-Mi Kee<sup>1</sup>, Ji-Hyung Suh<sup>1</sup>, Seon-Young Yang<sup>1</sup>, Eun-Jung Jang<sup>1</sup>, Dong-Wook Kim\*<sup>1,2</sup> <sup>1</sup> Leukemia Research Institute, The Catholic University of Korea, Korea

<sup>2</sup> Department of Hematology, Seoul St. Mary's Hospital, The Catholic University of Korea, Korea

#### PP-09 Optimal Time Point for BCR-ABL1 KD Mutation Analysis in CML Patients; Based on 2013 ELN

Hea-Lyun Yoo<sup>1</sup>, Soo-Hyun Kim<sup>1</sup>, Soo-Young Choi<sup>1</sup>, Mi-Young Lee<sup>1</sup>, Hye-Young Song<sup>1</sup>, Ki-Hoon Kang<sup>1</sup>, Kyoung-Mi Ki<sup>1</sup>, Sun-Young Yang<sup>1</sup>, Dong-Wook Kim\*<sup>1,2</sup>

<sup>1</sup> Leukemia Research Institute, The Catholic University of Korea, Korea

<sup>2</sup> Department of Hematology, The Catholic University of Korea Seoul St. Mary's Hospital, Korea

## The Impact of Early Molecular Response on Long-Term Survival in CML Patients following TKIs

Sung-Eun Lee<sup>1,2</sup>, Soo-Young Choi<sup>2</sup>, Soo-Hyun Kim<sup>2</sup>, Hye-Young Song<sup>2</sup>, Kyung-Mi Kee<sup>2</sup>, Hea-Lyun Yoo<sup>2</sup>, Mi-Young Lee<sup>2</sup>, Ki-Hoon Kang<sup>2</sup>, Ji-Hyung Suh<sup>2</sup>, Seon-Young Yang<sup>2</sup>, Eun-Jung Jang<sup>2</sup>, Dong-Wook Kim\*<sup>1,2</sup>

<sup>1</sup> Department of Hematology, Seoul St. Mary's Hospital, The Catholic University of Korea, Korea

<sup>2</sup> Leukemia Research Institute, The Catholic University of Korea, Korea

<sup>&</sup>lt;sup>2</sup> Leukemia Research Institute, The Catholic University of Korea, Korea

### Outcomes of CML Patients who Have Achieved CCyR but Not MMR after 24 Months on Frontline Imatinib

Sung-Eun Lee<sup>1,9</sup>, Won-Sik Lee<sup>2</sup>, Young Rok Do<sup>3</sup>, Jae-Yong Kwak<sup>4</sup>, Sukjoong Oh<sup>5</sup>, Sung Hyun Kim<sup>6</sup>, Jeong-A Kim<sup>7</sup>, Dae Young Zang<sup>8</sup>, Soo-Young Choi<sup>9</sup>, Dong-Wook Kim\*<sup>1,9</sup>

<sup>1</sup> Department of Hematology, Seoul St. Mary's Hospital, The Catholic University of Korea, Korea

<sup>2</sup> Department of Internal Medicine, Inje University College of Medicine, Inje University Busan Paik Hospital, Korea

<sup>3</sup> Division of Hematology-Oncology, Keimyung University, School of Medicine, Keimyung University Hospital, Korea

<sup>4</sup> Division of Hematology-Oncology, Chonbuk National University Medical School, Chonbuk National University Hospital, Korea

 $^{5}$  Department of Internal Medicine, School of Medicine, Sungkyunkwan University, Kangbuk Samsung Hospital, Korea

<sup>6</sup> Department of Internal Medicine, Dong-A University College of Medicine, Dong-A University Hospital, Korea

<sup>7</sup> Department of Hematology, The Catholic University of Korea, St. Vincent's Hospital, Korea

<sup>8</sup> Department of Internal Medicine, Hallym University College of Medicine, Hallym University Hospital, Korea

<sup>9</sup> Leukemia Research Institute, The Catholic University of Korea, Korea

### Pegylated L-Asparaginase Induced Cholestatic Jaundice and Treated with Oral L- Carnitine: A Case Report

Asma Nasir Mahmud<sup>1</sup>, Huma Asif<sup>1</sup>, Ayisha Imran<sup>1</sup>, Tasneem Farzana\*<sup>2</sup>

<sup>1</sup> Department of hematology, Chughtai Lab lahore, Pakistan

<sup>2</sup> National centre for blood diseases, National hospital and medical centre, Lahore, Pakistan

#### Molecular Docking to Identify a Novel Inhibitors for Tyrosine Kinase in CML from Alkaloids Shah Md Shahik<sup>1,2</sup>

<sup>1</sup> Genetic Engineering and Biotechnology, University of Chittagong, Bangladesh

<sup>2</sup> Chronic Disease, Biomedical Research Foundation Bangladesh, Bangladesh

### Erdheim-Chester Disease (ECD) is an Uncommon Aggressive, Multisystem Immunological Disease among Arab Males

Abdalla Bowirrat, Abdalla Bowirrat

Neuroscience and Genetic, Emms Hospital, Palestine

### Adverse Drug Reactions to Anti-TB Drugs: Pharmacogenomics Perspective for Identification of Host Genes

Kamal Kishor

Analytical, Institute of Pesticide Formulation Technology, India

Survey of Titanium Dioxide Nanoparaticles Exposure during Pregnancy on Hematological Parameters

### Survey of Titanium Dioxide Nanoparaticles Exposure during Pregnancy on Hematological **Parameters**

Cyrus Jalili<sup>1</sup>, Faramarz Jalili<sup>2</sup>, Mahdi Taghadosi<sup>3</sup>, Mohammad Reza Salahshoor<sup>4</sup>

<sup>1</sup> Department of Anatomy and Cell Biology, Medical Biology Research Center, Kermanshah University of Medical Sciences, Iran

<sup>2</sup> Students Research Committee, Students Research Committee, Kermanshah University of medical Sciences, Iran

<sup>3</sup> Department of Immunology, Department of Immunology, Kermanshah University of Medical Sciences, Iran

<sup>4</sup> Department of Anatomy and Cell Biology, Medical Biology Research Center, Kermanshah University of Medical Sciences, Iran

## POSTER PRESENTATIONS

## Apoptotic Genes Expression Changes of Mice Tissues Exposed to Nicotine

Faramarz Jalili<sup>1</sup>, Cyrus Jalili<sup>2</sup>

<sup>1</sup> Students Research Committee, Students Research Committee, Kermanshah University of medical Sciences, Iran

<sup>2</sup> Department of Anatomy and Cell Biology, Medical Biology Research Center, Kermanshah University of medical Sciences, Iran

## Prevalence of Glucose-6-Phosphate Dehydrogenase Deficiency among Lao Theung Ethnic Group

Amkha Sanephonasa<sup>1,2</sup>, Kamonlak Leecharoenkiat\*<sup>1</sup>, Chalisa Louicharoen Cheesunthorn<sup>3</sup>, Issarang Nuchprayoon<sup>4</sup>, Naly Khaminsou<sup>2</sup>, Onkham Savongsy<sup>2</sup>

<sup>1</sup> Department of clinical Microscopy, Faculty of Allied Health Sciences, Chulalongkorn University, Thailand

<sup>2</sup> Deparment of Laboratory, Faculty of Medical Technology, University of Health Sciences, Laos

<sup>3</sup> Department of Biochemistry, Faculty of Medicine, Chulalongkorn University, Thailand

<sup>4</sup> Department of Pediatrics, Faculty of Medicine, Chulalongkorn University, Thailand

### Prognostic Factors and Response to the Hypomethylating Agents in Hypocellular Myelodysplastic Syndromes: A Retrospective Study from the Korean Society of Hematology AML/MDS Working Party

Jungmin Jo<sup>1</sup>, Sung Hwa Bae<sup>1</sup>, Jinny Park<sup>2</sup>, Hong-Ghi Lee<sup>3</sup>, Chul Won Choi<sup>4</sup>, Yong Park<sup>5</sup>, Ho Sup Lee<sup>6</sup>, Sung-Hyun Kim<sup>7</sup>, Won-Sik Lee<sup>8</sup>, Soo-Mee Bang<sup>9</sup>, Jun-Ho Jang<sup>10</sup>, Inho Kim<sup>11</sup>, Je-Hwan Lee<sup>12</sup>, June-Won Cheong<sup>13</sup>, Seongkyu Park<sup>14</sup>, Jong-Ho Won<sup>15</sup>, Min Kyoung Kim<sup>16</sup>, Hyeok Shim<sup>17</sup>, Yeung-Chul Mun<sup>18</sup>, Jae-Sook Ahn<sup>19</sup>, Deog-Yeon Jo<sup>20</sup>, Dae Young Zang<sup>21</sup>

<sup>1</sup> Daegu Catholic Univ. Medical Center, Daegu, Korea

<sup>2</sup> Gil Medical Center Gachon University, Inchon, Korea

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<sup>8</sup> Inje Univ. Busan Baik-Hospital, Busan, Korea

<sup>9</sup> Seoul national university, Bundang hospital, Seongnam-si, Gyeonggi-do, Korea

<sup>10</sup> Division of Hematology-Oncology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea

<sup>11</sup> Seoul national university hospital, Seoul, Korea

<sup>12</sup> Department of Hematology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea

<sup>13</sup> Yonsei University College of Medicine, Severance Hospital, Seoul, Korea

<sup>14</sup> Hematology/Oncology, SoonchunhyangUniveristyBucheon Hospital, Bucheon, Korea

<sup>15</sup> Soonchunhyang University Hospital, Seoul, Korea

<sup>16</sup> Department of Internal Medicine, Yeungnam University Medical Center, Daegu, Korea

<sup>17</sup> Wonkwana University Hospital, Iksan, Korea

<sup>18</sup> Department of Internal Medicine, EwhaWomans University School of Medicine, Seoul, Korea

<sup>19</sup> Department of Hematology-Oncology, Chonnam National University Hwasun Hospital, Hwasun-Gun, Korea

<sup>20</sup> Department of Internal Medicine, Chungnam National University College of Medicine, Daejeon, Korea

<sup>21</sup> Department of Internal Medicine, Hallym University College of Medicine, Hallym University Hospital, Anyang, Korea, Korean Society of Hematology AML/MDS Working Party

### Increased Proportion of Th17/Treg T Cells for Early Prediction of Chronic Immune Thrombocytopenia in Children

Hao Gu, Zhenping Chen, Jingyao Ma, Lingling Fu, Jie Ma, Runhui Wu\* Beijing Children Hospital, Capital Medical University, China

### Torque Teno Virus/Torque Teno-Like Minivirus in Kikuchi-Fujimoto Disease

Yosep Chong<sup>1</sup>, Seung Bum Hong<sup>2</sup>, Ji Young Lee<sup>1</sup>, Eun Jung Lee\*<sup>1</sup>

<sup>1</sup> Department of Hospital Pathology, College of Medicine, The Catholic University of Korea, Korea

<sup>2</sup> Department of Genetic Analysis, Crimininal Investigation Command, Ministry of National Defense, Korea

### Genotype-Phenotype Study on Familial HIh in Korea: A Study from Korea Histiocytosis Working Party

Hyery Kim<sup>1</sup>, Kyung Nam Koh<sup>1</sup>, Ho Joon Im<sup>1</sup>, Hyung Jin Kang<sup>2</sup>, Hee Young Shin<sup>2</sup>, Jae Wook Lee<sup>3</sup>, Nak Gyun Chung<sup>3</sup>, Bin Cho<sup>3</sup>, Ji Won Lee<sup>4</sup>, Kun Hee Yoo<sup>4</sup>, Ki Woong Sung<sup>4</sup>, Hong Hoe Koo<sup>4</sup>, Hee Jo Baek<sup>5</sup>, Hoon Kook<sup>5</sup>, Kyung Mi Park<sup>6</sup>, Eu Jeen Yang<sup>6</sup>, Young Tak Lim<sup>6</sup>, Eun Sun Yoo<sup>7</sup>, Kyung-Ha Ryu<sup>7</sup>, Jong Jin Seo\*<sup>1</sup>

<sup>1</sup> Pediatrics, University of Ulsan College of Medicine, Asan Medical Center, Korea

#### PP-23 ~ PP-46: Poster Presentation 02

March 30 (Friday) 17:50-18:20

### Prevalence of Anemia among Chronic Kidney Disease Patients in India: Evidence from a Meta-**Analysis**

Md Salman Hussain<sup>1</sup>, Abul Kalam Naimi<sup>2</sup>

#### Cell Bead: Affordable Counting Bead by Flow Cytometry

Duangdao Palasuwan, Attakorn Palasuwan

Clinical Microscopy, Faculty of Allied Health Sciences, Department of Clinical Microscopy, Chualongkorn University, Thailand

## POSTER PRESENTATIONS

#### Red Blood Cell Deformability in Patients with Hematologic Neoplasms

Yu Kyung Kim<sup>1</sup>, Jae Min Lee<sup>2</sup>, Ji Yeon Ham<sup>1</sup>, Jang Soo Suh\*<sup>1</sup>

<sup>1</sup> Clinical Pathology, Kyungpook National University School of Medicine, Korea

<sup>2</sup> Pediatrics, College of Medicine, Yeungnam University, Korea

## Bone Marrow and Laboratory Findings in Light Chain Amyloidosis in a Single Center Study

Taegeun Lee, Min Young Lee, Eunkyoung You, Young-Uk Cho, Seongsoo Jang, Chan-Jeoung Park\* Department of Laboratory Medicine, University of Ulsan College of Medicine and Asan Medical Center, Korea

### Synergistic Effect but Acquisition of Resistance for Danusertib and BKM120 in BL Cell Lines Jun Liu<sup>1</sup>, Junshik Hong\*<sup>1,2</sup>, Kwang-Sung Ahn<sup>3</sup>, Sung-Soo Yoon<sup>1,2</sup>

<sup>1</sup> Cancer Research Institute, Seoul National University College of Medicine, Korea

<sup>2</sup> Department of Internal Medicine, Seoul National University Hospital Seoul National University College of Medicine, Korea

<sup>3</sup> PDXen Biosystems Co., Korea

### Development and Validation of Mobile Application of Machine Learning Expert Supporting System "ImmunoGenius" for Diagnosis Presumption of Lymphoid Neoplasms Using 1000 Immunohistochemistry Dataset

Yosep Chong, Gyeongsin Park\*, Ji Young Lee, Myungjin Choi, Eun Jung Lee Department of Hospital Pathology, College of Medicine, The Catholic University of Korea, Koreaa

## Seasonal Variation in PE but Not DVT Incidence: A Korean Nationwide Epidemiology Study Junshik Hong<sup>1</sup>, Ju Hyun Lee<sup>2</sup>, Ji Yun Lee<sup>2</sup>, Won-II Choi<sup>3</sup>, Soyeon Ahn<sup>4</sup>, Yun Hee Lee<sup>5</sup>, Soo-Mee Bang\*<sup>2</sup>,

Doyeun Oh<sup>6</sup> <sup>1</sup> Department of Internal Medicine, Seoul National University College of Medicine, Seoul National University Hospital, Korea

 $^3$  Department of Internal Medicine, Keimyung University School of Medicine, Keimyung University Donasan Medical Center, Korea

#### Reevaluation of Initial Antiphospholipid Antibody Positivities

Jin-Yeong Han, In-Wha Jeong, Gyu-Dae An, Hyeon-Ho Lim, Kwang-Sook Woo Laboratory Medicine, Dong-A University College of Medicine, Korea

### Platelet Proteome and Hypercoagulable State of Non-Splenectomized β-Thalassmia/HbE PP-31

Puangpaka Chanpeng<sup>1</sup>, Kamonlak Leecharoenkiat\*<sup>1</sup>, Saowaros Svasti<sup>2</sup>, Duncan R. Smith<sup>3</sup>, Kittiphong Paiboonsukwong<sup>2</sup>, Wannapa Sornjai<sup>3</sup>, Wasinee Kheansaard<sup>2</sup>

<sup>1</sup> Department of Clinical Microscopy, Faculty of Allied Health Sciences, Chulalongkorn University, Thailand

<sup>&</sup>lt;sup>2</sup> Pediatrics, Seoul National University College of Medicine, Korea

<sup>&</sup>lt;sup>3</sup> Pediatrics, The Catholic University of Korea College of Medicine, Korea

<sup>&</sup>lt;sup>4</sup> Pediatrics, Sungkyunkwan University School of Medicine, Korea

<sup>&</sup>lt;sup>5</sup> Pediatrics, Chonnam National University Hwasun Hospital, Korea

<sup>&</sup>lt;sup>6</sup> Pediatrics, Pusan National University College of Medicine, Korea

<sup>&</sup>lt;sup>7</sup> Pediatrics, Ewha Womans University College of Medicine, Korea

<sup>&</sup>lt;sup>8</sup> Pediatrics, Yonsei University College of Medicine, Korea

<sup>&</sup>lt;sup>9</sup> Pediatrics, Ajou University School of Medicine, Korea

<sup>&</sup>lt;sup>10</sup> Pediatrics, Yeungnam University College of Medicine, Korea

<sup>&</sup>lt;sup>1</sup> Department of Pharmaceutical Medicine, Jamia Hamdard (Hamdard University), India

<sup>&</sup>lt;sup>2</sup> Department of Pharmacology, Jamia Hamdard (Hamdard University), India

<sup>&</sup>lt;sup>2</sup> Department of Internal Medicine, Seoul National University College of Medicine, Seoul National University Bundang

<sup>&</sup>lt;sup>4</sup> Medical Research Collaborating Center, Seoul National University Bundang Hospital, Korea

<sup>&</sup>lt;sup>5</sup> Environmental Health Center, Seoul National University College of Medicine, Korea

<sup>&</sup>lt;sup>6</sup> Department of Internal Medicine, CHA university School of Medicine, CHA Bundang Medical Center, Korea

<sup>&</sup>lt;sup>2</sup> Thalassemia Research Center, Institute of Molecular Biosciences, Mahidol University, Thailand

<sup>&</sup>lt;sup>3</sup> Molecular Pathology Laboratory, Institute of Molecular Biosciences, Mahidol University, Thailand

#### Von Willebrand Antigen Levels in Blood Group 'O' and Non-O Individuals

Asma Nasir Mahmud, Huma Asif\*, Ayisha Imran, Nauman A. Malik Department of hematology, Chughtai lab lahore, Pakistan

PP-33 Nonstroke Arterial Thromboembolism in Pediatric Patients: A Single Institution Experience in

Hyoung Soo Choi, Chang Won Choi, Heon Min Kim, Young Hwan Song Pediatrics, Seoul National University Bundang Hospital, Korea

Screening of HIV, HBsAq, HCV and VDRL among Voluntary Blood Donors of Western Region of

Mukunda Raj Kaloun<sup>i1</sup>, Arnav Ghosh\*<sup>2</sup>

<sup>1</sup> Clinical Pathology, Manipal Teaching Hospital, Nepal

<sup>2</sup> Clinical Pathology, Manipal Teaching Hospital, Nepal

Prevalence of Anemia among Type 2 Diabetes Mellitus Patients: A Pilot Study

Abul Kalam Najmi<sup>1</sup>, Salman Hussain<sup>2</sup>

<sup>1</sup> Department of Pharmacology, Jamia Hamdard, India

<sup>2</sup> Department of Pharmaceutical Medicine, Jamia Hamdard, India

Prospsective Phase II Pilot Study to Evaluate the Use of Intravenous Iron in the Treatment of

Youjin Kim, Jun Ho Jang\*, Silvia Park, Chul Won Jung

Division of Hematology-Oncology, Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

SFKs Inhibitor Bosutinib and Dasatinib Enhances ATRA or ATO Induced NB4 Cell Differentiation

Hee-Jeong Cheong<sup>1</sup>, Min Young Lee<sup>2</sup>, Kyoung Ha Kim<sup>2</sup>, Namsu Lee<sup>2</sup>, Sung Hee Lim<sup>2</sup>, Jina Yoon<sup>2</sup>, Se Hyoung Kim<sup>2</sup>, Chan-Kyu Kim<sup>2</sup>, Sung Kyu Park<sup>2</sup>, Dae Sik Hong<sup>2</sup>, Han Jo Kim<sup>2</sup>, Sang-Cheol Lee<sup>2</sup>, Sang Byung Bae<sup>2</sup>, Kyu Taeg Lee<sup>2</sup>, Jong-Ho Won\*<sup>2</sup>

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Advanced Serological Evaluation of a Case of Evans Syndrome with Anti D Autoantibody

Nitin Agarwal, Prashant Pandey

Induced AIHA

Transfusion Medicine and Transplant immunology, Jaypee Hospital, India

## POSTER PRESENTATIONS

Serum NLR and PLR as a Systemic Inflammatory Marker among HIV-TB before Antiretroviral

Muhammad Faisal Putro Utomo<sup>1</sup>, Anindia Reina Yolanda<sup>1</sup>, Nur Rizky Amaliah<sup>1</sup>, Petrus Kanisius Yogi Hariyanto<sup>1</sup>, Ni Made Dewi Dian Sukmawati<sup>2</sup>, I Made Susila Utama<sup>2</sup>

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Association between Immunological Status with Hematological Findings among TB-HIV Patients Anindia Reina Yolanda, Muhammad Faisal Utomo, Yogi Haryanto, Nurrizky Amaliah Medical Student, Udayana University, Indonesia

Clinical Characteristics, Treatment Patterns, and Outcome of Lymphoplasmacytic Lymphoma Jang Ho Cho<sup>1</sup>, Silvia Park<sup>1</sup>, Young Hyeh Ko<sup>2</sup>, Hee-Jin Kim<sup>3</sup>, Sun-Hee Kim<sup>3</sup>, Kihyun Kim<sup>1</sup>, Won Seog Kim<sup>1</sup>, Seok Jin Kim\*1

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<sup>2</sup> Pathology, Samsung Medical Center, Korea

<sup>3</sup> Laboratory Medicine, Samsung Medical Center, Korea

Thrombocytopenia due to Dengue and Vitamin D

Narendra Gemawat

Pediatrics-School health, Hindustan Chamber Chikitsalaya, India

Clinical Characteristics of Young-Age Venous Thromboembolism: A Nationwide Study in Korea Chang-Hun Park<sup>1</sup>, Inho Kim<sup>2</sup>, Soo-Mee Bang<sup>3</sup>, Ho-Young Yhim<sup>4</sup>, Yeo-Kyeoung Kim<sup>5</sup>, Yang-Ki Kim<sup>6</sup>, Won-II Choi<sup>7</sup>, Chul Won Jung<sup>8</sup>, Doyeun Oh<sup>9</sup>, Sun-Hee Kim<sup>1</sup>, Hee-Jin Kim\*<sup>1</sup>

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<sup>8</sup> Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

Department of Internal Medicine, School of Medicine, CHA University, Korea

#### Effect of the Hydro-Alcoholic Extract of Falcaria Vulgaris on Liver Parameters of Diabetic Rats Faramarz Jalili<sup>1</sup>, Cyrus Jalili<sup>2</sup>

<sup>1</sup> Department of Anatomy and Cell Biology, Students Research Committee, Kermanshah University of Medical Sciences, Iran <sup>2</sup> Department of Anatomy and Cell Biology, Department of Anatomy and Cell Biology, Kermanshah University of Medical

Expression of PD-1 in Pediatric Patients with Haploidentical SCT not Correlates with GVHD Eunkyoung You<sup>1</sup>, Seongsoo Jang\*<sup>1</sup>, Ari Ahn<sup>1</sup>, Min Young Lee<sup>1</sup>, Young-Uk Cho<sup>1</sup>, Chan-Jeoung Park<sup>1</sup>, Yu Jin Lee<sup>2</sup>, Nu-Ree Park<sup>2</sup>, Eun Seok Choi<sup>3</sup>, Hery Kim<sup>3</sup>, Kyung Nam Koh<sup>3</sup>, Ho Joon Im<sup>3</sup>, Jong Jin Seo<sup>3</sup> <sup>1</sup> Department of Laboratory Medicine, Asan Medical Center and University of Ulsan College of Medicine, Korea <sup>2</sup> Asan Clinical Research Center, Asan Medical Center and University of Ulsan College of Medicine, Korea

<sup>3</sup> Department of Pediatrics, Asan Medical Center and University of Ulsan College of Medicine, Korea

### Successful Renal Re-Transplant after Desensitization with Plasmapheresis & IVIG in High Risk Patient

Nitin Agarwal, Prashant Pandey Transfusion Medicine and Transplant Immunology, Jaypee Hospital, India

### PP-47 ~ PP-85 : Poster Only

Sciences, Iran

### Patients with Therapy-Related Myleoid Neoplasm Harboring Normal Karyotype Showed **Better Outcomes**

Sang-A Kim<sup>1</sup>, Junshik Hong\*<sup>1</sup>, Go-Un Woo<sup>1</sup>, Youngil Koh<sup>1</sup>, Dong-Yeop Shin<sup>1</sup>, Inho Kim<sup>1</sup>, Dong Soon Lee<sup>2</sup>, Sung-Soo Yoon<sup>1</sup>

<sup>1</sup> Department of Internal Medicine, Seoul National University Hospital, Korea

### Micafungin Prophylaxis for Acute Myeloid Leukemia Patients Undergoing Induction Chemotherapy

Hyunkyung Park<sup>1</sup>, Jiwon Jeong<sup>1</sup>, Jeonghwan Youk<sup>2</sup>, Wan Beom Park<sup>1</sup>, Dong-Yeop Shin<sup>1,3</sup>, Junshik Hong<sup>1,3</sup>, Inho Kim<sup>1,3</sup>, Nam Joong Kim<sup>1</sup>, Sung-Soo Yoon<sup>1,3</sup>, Youngil Koh\*<sup>4</sup>

<sup>1</sup> Internal Medicine, Seoul National University Hospital, Korea

<sup>2</sup> Korea Advanced Institute of Science and Technology, , Korea

<sup>3</sup> Cancer Research Institute, Seoul National University College of Medicine, Korea

## SET-NUP214 Fusion in Acute Myeloid Leukemia with Massive Hyperdiploidy

Gyu-Dae An<sup>1</sup>, In-Hwa Jeong<sup>1</sup>, Hyeon-Ho Lim<sup>1</sup>, Kwang-Sook Woo<sup>1</sup>, Kyeong-Hee Kim<sup>1</sup>, Jeong-Man Kim<sup>1</sup>, Ji-Hyun Lee<sup>2</sup>, Jin-Yeong Han\*

<sup>1</sup> Department of Laboratory Medicine, Dong-A University College of Medicine, Korea

## POSTER PRESENTATIONS

Evaluation and Application of RNA Fusion Gene Panel for the Patients with Acute Leukemia Borahm Kim<sup>1</sup>, Saeam Shin<sup>4</sup>, Jieun Jang<sup>3</sup>, Soo Jeong Kim<sup>3</sup>, Seung-Tae Lee<sup>1</sup>, June-Won Cheong<sup>2</sup>, Chuhl Joo Lyu<sup>3</sup>, Yoo Hong Min<sup>2</sup>, Jong Rak Choi\*<sup>1</sup>

<sup>1</sup> Department of Laboratory Medicine, Yonsei University College of Medicine, Korea

### A Case of Lineage Conversion with Clonal Evolution from Acute Lymphoblastic Leukemia to Acute Myeloid Leukemia

Heerah Lee<sup>1</sup>, Chan-Jeoung Park\*<sup>1</sup>, Eunkyoung You<sup>1</sup>, Hyery Kim<sup>2</sup>, Jong Jin Seo<sup>2</sup>

<sup>1</sup> Laboratory Medicine, University of Ulsan College of Medicine and Asan Medical Center, Korea

#### PP-52 Inhibition of Mitochondrial Respiration by Treatment of PDTA Entails Depletion of ATP Content

Ilhwan Ryu<sup>1,2,3</sup>, Jeongsu Han<sup>1,3</sup>, Yunseon Jang<sup>1,2,3</sup>, Soo Jeong Kim<sup>1,2,3</sup>, Min Joung Lee<sup>1,2,3</sup>, Xianshu Ju<sup>2,3</sup>, Byeong Hyeon Yoo<sup>1,2,3</sup>, Yu Lim Lee<sup>1,2,3</sup>, Min Jeong Ryu<sup>1,4</sup>, Woosuk Chung<sup>6</sup>, Gi Ryang Kweon<sup>1,2,4</sup>, Jun Young Heo<sup>\*1,2,3</sup> <sup>1</sup> Department of Biochemistry, Chungnam National University School of Medicine, Korea

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<sup>4</sup> Research Institute for Medical Science, Chungnam National University School of Medicine, Korea

<sup>5</sup> Brain research Institute, Chungnam National University School of Medicine, Korea

### Single Center Experience of Blinatumomab for Relapsed/Refractory B Cell Acute Lymphoblastic Leukemia

Soo-Jeong Kim<sup>1</sup>, Ji Eun Jang<sup>1</sup>, Hae Rim Chung<sup>1</sup>, Chul-Joo Yoo<sup>2</sup>, Jin Seok Kim<sup>1</sup>, June-Won Cheong\*<sup>1</sup>,

<sup>1</sup> Department of Internal Medicine, Yonsei University College of Medicine, Korea

## Acute Myeloid Leukemia Classification in an Era of the WHO 2016 Diagnostic Criteria

Jung Jin, Eunhee Han, Myungshin Kim\*, Yonggoo Kim, Kyungja Han Department of Laboratory Medicine, College of Medicine, The Catholic University of Korea, Korea

## Clinical Dissection of Infectious Event following ATG Treatment for Aplastic Anemia and Hypoplastic Myelodysplastic Syndrome

Hee Ryeong Jang<sup>1</sup>, Youngil Koh\*<sup>1</sup>, Sung-Soo Yoon<sup>1</sup>, Inho Kim<sup>1</sup>, Soo-Mee Bang<sup>2</sup>, Jeong-Ok Lee<sup>2</sup> <sup>1</sup> Internal Medicine , Seoul National University Hospital, Korea

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<sup>&</sup>lt;sup>2</sup> Internal Medicine, Seoul National University Bundang Hospital , Korea

## Diagnostic Considerations for the Recently Described Entity, MDS/MPN-RS-T: A Review of 6

Min Young Lee, Seongsoo Jang\*, Chan-Jeoung Park, Young-Uk Cho, Eunkyoung You, Ari Ahn Laboratory Medicine, Asan Medical Center, University of Ulsan College of Medicine, Korea

A Rare Case of MPN with a Coexistence of JAK2 V617F Mutation and BCR/ABL1 Translocation Sang Hyuk Park<sup>1</sup>, Ji-Hun Lim\*<sup>1</sup>, Joseph Jeong<sup>1</sup>, Sun-Ho Lee<sup>1</sup>, Yunsuk Choi<sup>2</sup>, Jae-Cheol Cho<sup>2</sup>, Young-Uk Cho<sup>3</sup>, Sang-Hyun Hwang<sup>3</sup>, Seongsoo Jang<sup>3</sup>, Chan-Jeoung Park<sup>3</sup>

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#### PP-58 Very Early Molecular Response at 1 Month is a Predictor of the Outcome of CP-CML Treated

Hye-Young Song<sup>1</sup>, Soo-Young Choi<sup>1</sup>, Sung-Eun Lee<sup>2</sup>, Soo-Hyun Kim<sup>1</sup>, Hea-Lyun Yoo<sup>1</sup>, Mi-Young Lee<sup>1</sup>, Ki-Hoon Kang<sup>1</sup>, Kyung-Mi Kee<sup>1</sup>, Ji-Hyung Suh<sup>1</sup>, Seon-Young Yang<sup>1</sup>, Dong-Wook Kim\*<sup>1,2</sup> <sup>1</sup> Leukemia Research Institute, The Catholic University of Korea, Korea

<sup>2</sup> Department of Hematology, Seoul St. Mary's Hospital. The Catholic University of Korea, Korea

### Dasatinib-Induced Pulmonary Arterial Hypertension Diagnosed by Echocardiography in CML Jee Hyun Kong<sup>1</sup>, Sung-Eun Lee<sup>2</sup>, Young-Woo Jeon<sup>2</sup>, Soo Young Choi<sup>3</sup>, Soo-Hyun Kim<sup>3</sup>, Eun-Jung Jang<sup>3</sup>, Hae-Eok Jung<sup>4</sup>, Dong-Wook Kim\*<sup>2,3</sup>

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<sup>4</sup> Cardiology, Seoul St. Mary's Hospital, The Catholic University of Korea, Korea

#### Therapeutic Targeting of BCR-ABL in Chronic Myelogenous Leukemia by Modulating NAD Levels

Jeongsu Han<sup>1,2,3,4</sup>, Soo Jeong Kim<sup>1,2,4</sup>, Min Joung Lee<sup>1,2,4</sup>, Ilhwan Ryu<sup>1,2,4</sup>, Xianshu Ju<sup>1,2,4</sup>, Byeong Hyeon Yoo<sup>1,2,4</sup>, Yu Lim Lee<sup>1,2,4</sup>, Yunseon Jang<sup>1,2,4</sup>, Min Jeong Ryu<sup>1,2,3</sup>, Junyoung Heo<sup>1,2,4,5</sup>, Gi Ryang Kweon\*<sup>1,2,3</sup> <sup>1</sup> Department of Biochemistry, Chungnam National University School of Medicine, Korea

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<sup>5</sup> Brain Research Institute, Chungnam National University School of Medicine, Korea

#### Quantification of BCR-ABL1 Using Digital PCR in CML Patients for TKI Discontinuation

Hee-Jung Chung<sup>1</sup>, Hye-Won Lee<sup>2</sup>, Mi-Kyoung Han<sup>2,3</sup>, Hyun-Seok Um\*<sup>2</sup>

<sup>1</sup> Laboratory Medicine, Konkuk Medical Center, Korea

<sup>2</sup> Internal Medicine, Center for Hematologic Malignancy, National Cancer Center Hospital, Korea

<sup>3</sup> Division of Convergence Technology, Immunotherapeutics Branch, National Cancer Center Research institute, Korea

## POSTER PRESENTATIONS

### Performance of Automated Imaging Cell Analyzer Vision Hema for White Blood Cell Differentials Sumi Yoon, Mikyoung Park, Hanah Kim\*, Mina Hur Department of Laboratory Medicine, Konkuk University School of Medicine, Korea

PP-63 Performance Evaluation of the Automated Digital Cell Morphology Analyzer Di-60 in Pediatric

Gyu-Dae An<sup>1</sup>, In-Hwa Jeong<sup>1</sup>, Hyeon-Ho Lim<sup>1</sup>, Sung-Suk Cho<sup>2</sup>, Kwang-Sook Woo<sup>1</sup>, Kyeong-Hee Kim<sup>1</sup>, Jeong-Man Kim<sup>1</sup>, Hee-Won Chueh<sup>3</sup>, Jin-Yeong Han\*<sup>1</sup>

<sup>1</sup> Department of Laboratory Medicine, Dona-A University College of Medicine, Korea

<sup>2</sup> Department of Laboratory Medicine, Dong-A University Hospital, Korea

<sup>3</sup> Department of Pediatrics Medicine, Dong-A University College of Medicine, Korea

### A Case of Iron-Refractory Iron Deficiency Anemia with Autoimmune Chronic Gastritis

Hyunjung Kim<sup>1</sup>, Der Sheng Sun\*<sup>2</sup>, Joonhong Park<sup>1</sup>, Myungshin Kim<sup>1</sup>

Laboratory Medicine, College of Medicine, The Catholic University of Korea, Korea

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#### Performance Evaluation of Automatic Image Analyzer for Differential Count of Bone Marrow Cells

Yong Jun Kwon, Jun Hyung Lee, Ha Jin Lim, Hyun Jung Choi, Soo Hyun Kim, Myung Geun Shin\* Departments of Laboratory Medicine, Chonnam National University Medical School and Chonnam National University Hwasun Hospital, Korea

#### Relapsed Acute Myeloid Leukemia Preceded by Discrepant Morphologic and Molecular Evaluations

Sumi Yoon, Hanah Kim, Mina Hur\*

Department of Laboratory Medicine, Konkuk University School of Medicine, Korea

### Visionhema is Useful for Nucleated Cell Differentials in Bone Marrow Aspirates without **Abnormalities**

Eunkyoung You, Chan-Jeoung Park\*, Min Young Lee, Young-Uk Cho, Seongsoo Jang Department of Laboratory Medicine, Asan Medical Center, University of Ulsan College of Medicine, Korea

#### PP-68 Clonal TCR Rearrangements in Patients with Hemophagocytic Lymphohistiocytosis without Malignancy

Heyjin Kim<sup>1</sup>, Keon Hee Yoo<sup>2</sup>, Silvia Park<sup>3</sup>, Seok Jin Kim<sup>3</sup>, Duck Cho<sup>1</sup>, Sun-Hee Kim<sup>1</sup>, Hee-Jin Kim<sup>\*1</sup> <sup>1</sup> Department of Laboratory Medicine and Genetics, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

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 $^3$  Division of Hematology-Oncology, Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

### Myc and Bcl2 Coexpression is Not Related with Inferior Outcome in the Diffuse Large B-Cell Lymphoma

Yu Ri Kim<sup>1</sup>, Sun Och Yoon<sup>2</sup>, Soo-Jeong Kim<sup>3</sup>, June-Won Cheong<sup>3</sup>, Haerim Chung<sup>3</sup>, Jung Yeom Lee<sup>4</sup>, Ji Eun Jang<sup>3</sup>, Yundeok Kim<sup>1</sup>, Woo-Ick Yang<sup>2</sup>, Yoo Hong Min<sup>3</sup>, Jin Seok Kim\*<sup>3</sup>

 $^{1}$  Division of Hematology, Department of Internal Medicine, Gangnam Severance Hospital, Yonsei University College of Medicine, Korea

### Different Role of Surveillance 18FDG-PET/CT according to Histologic Subtypes in Patients with NHI

Yu Ri Kim<sup>1</sup>, Soo-Jeong Kim<sup>2</sup>, June-Won Cheong<sup>2</sup>, Yundeok Kim<sup>1</sup>, Ji Eun Jang<sup>2</sup>, Huynsoo Cho<sup>2</sup>, Haerim Chung<sup>2</sup>, Yoo Hong Min<sup>2</sup>, Woo Ick Yang<sup>3</sup>, Arthur Cho<sup>4</sup>, Jin Seok Kim\*<sup>2</sup>

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<sup>2</sup> Division of Hematology, Department of Internal Medicine, , Severance Hospital, Yonsei University College of Medicine, Korea

## Efficacy and Safety of Once-Weekly Bortezomib in Relapsed/Refractory Multiple Myeloma

Sang Eun Yoon, Yeung-Chul Mun\*, Chu-Myong Seong, Eun-Mi Nam, Kyoung-Eun Lee, Soon-Nam Lee Department of Internal Medicine, Ewha Womans University, Hemoto-Oncology, Korea

### Thalidomide/Dexamethasone Maintenance after Autologous Stem Cell Transplantation in Multiple Myeloma

Sang-A Kim<sup>1</sup>, Youngil Koh\*<sup>2</sup>, Dong-Yeop Shin<sup>2</sup>, Jin Seok Kim<sup>3</sup>, Kihyun Kim<sup>4</sup>, Chang-Ki Min<sup>5</sup>, Hyeon-Seok Eom<sup>6</sup>, Je Jung Lee<sup>7</sup>, Jeong-Ok Lee<sup>8</sup>, Soo-Mee Bang<sup>8</sup>, Sung-Soo Yoon<sup>2</sup>

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## POSTER PRESENTATIONS

Prognostic Role of Myeloid-Derived Suppressor Cells in Transplant-Eligible Multiple Myeloma Sung-Soo Park<sup>1,2</sup>, Gi June Min<sup>1,2</sup>, Young-Woo Jeon<sup>1,2</sup>, Jae-Ho Yoon<sup>1,2</sup>, Seung-Ah Yahng<sup>3</sup>, Seung-Hwan Shin<sup>4</sup>, Sung-Eun Lee<sup>1,2</sup>, Byung-Sik Cho<sup>1,2</sup>, Ki-Seong Eom<sup>1,2</sup>, Yoo-Jin Kim<sup>1,2</sup>, Seok Lee<sup>1,2</sup>, Hee-Je Kim<sup>1,2</sup>, Seok-Goo Cho<sup>1</sup>, Jong Wook Lee<sup>1</sup>, Chang-Ki Min\*<sup>1,2</sup>

<sup>1</sup> Department of Hematology, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea

Prognostic Impact of 18F-FDG PET/CT at Diagnosis in Newly Diagnosed Multiple Myeloma Sung-Hoon Jung, Seo-Yeon Ahn, Seung-Shin Lee, Deok-Hwan Yang, Jae-Sook Ahn, Yeo-Kyeoung Kim, Hveoung-Joon Kim, Je-Jung Lee\*

Department of Hematology-Oncology, Chonnam National University Hwasun Hospital, Korea

### Single Center Experience of Pomalidomide Plus Low-Dose Dexamethasone in Patients with Refractory and Relpased Multiple Myeloma

Sung Won Lim<sup>1</sup>, Silvia Park<sup>1</sup>, Seok Jin Kim<sup>1</sup>, Jun Ho Jang<sup>1</sup>, Won Seog Kim<sup>1</sup>, Chul Won Jung<sup>1</sup>, Hyo Jung Kim<sup>2</sup>, Kihvun Kim<sup>1</sup>

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<sup>2</sup> Department of Internal Medicine, Hallym University Sacred Heart Hospital, Hallym University College of Medicine, Korea

The Use of mTOR Inhibitor in Patients with Activated PI3K δ Syndrome 1; A Case Series in Korea Ji-Man Kang <sup>1,2</sup>, Su Kyung Kim <sup>1</sup>, Hyeon-Jin Park <sup>3</sup>, Sae Rom Choi <sup>1</sup>, Yeon Jung Lim <sup>4</sup>, Soon Ki Kim <sup>5</sup>, Meerim Park <sup>6</sup>, Youn-Soo Hahn<sup>6</sup>, Byung-Kiu Park<sup>2</sup>, Weon Seo Park<sup>8</sup>, Young Hye Ko<sup>7</sup>, Sung Yoon Cho<sup>1</sup>, Dong-Kyu Jin<sup>1</sup>, Yon Ho Choe<sup>1</sup>, Ji Won Lee<sup>1</sup>, Keon Hee Yoo<sup>1</sup>, Yae-Jean Kim\*<sup>1</sup>

<sup>1</sup> Pediatrics, Sungkyunkwan University School of Medicine, Samsung Medical Center, Korea

#### Efficacy Of Darbepoetin Alfa for Chemotherapy-Induced Anemia in Solid Cancer Patients Jang Ho Cho, Jun Ho Jang, Silvia Park, Jong-Mu Sun, Jeeyun Lee, Yeon Hee Park, Jin Seok Ahn, Chul Won Jung\* Division of Hematology-Oncology, Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

#### The Implementation of Next Generation Sequencing in Myeloid Neoplasm Clinical Diagnostics Smbat Daghbashvan<sup>1</sup>, Aline Avwaz<sup>1,2</sup>

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<sup>&</sup>lt;sup>7</sup> Pathology, Sungkyunkwan University School of Medicine, Samsung Medical Center, Korea

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## **POSTER PRESENTATIONS**

Korea

PP-79	Evaluation of the Immature Platelet Fraction in the Diagnosis of ITP and Other Various Diseases Dong Jin Park <sup>1</sup> , Sooyoung Kim <sup>1</sup> , Yeongsic Kim <sup>1</sup> , Jeong-A Kim <sup>2</sup> , Young Hoon Park <sup>2</sup> , Dong Jin Park <sup>*1</sup>	
	Laboratory Medicine, The Catholic University of Korea, St. Vincent's Hospital, Korea	
	<sup>2</sup> Division of Hematology, Department of Internal Medicine, The Catholic University of Korea, St. Vincent's Hospital, Korea	
PP-80	Association of HSV to Chemotherapy-Induced Oral Mucositis in Patients with Hematologic Malignancies	
	Junshik Hong <sup>1</sup> , Youngnim Choi <sup>2</sup> , Ji-Yeob Choi <sup>4</sup> , Dong-Yeop Shin <sup>1</sup> , Youngil Koh <sup>1</sup> , Hee Kyung Park <sup>3</sup> ,	
	Inho Kim* , Sung-Soo Yoon ' ' Department of Internal Medicine, Seoul National University Hospital, Seoul National University College of Medicine, Korea	
	<sup>2</sup> Department of Oromaxillofacial Infection & Immunity, School of Dentistry and Dental Research Institute, Seoul National University, Korea	
	<sup>3</sup> Department of Oral Medicine and Oral Diagnosis, School of Dentistry and Dental Research Institute, Seoul National University, Korea	
	<sup>4</sup> Department of Biomedical Sciences, Seoul National University College of Medicine, Korea	
PP-81	Efficacy of Olanzapine-Containing Antiemetic Regimen in ASCT Patients with TBC Conditioning	
	Bobae Kim <sup>1</sup> , Youree Jung <sup>1</sup> , Eunjeong Shin <sup>1</sup> , Sungyun Suh <sup>1</sup> , Yoonsook Cho <sup>1</sup> , Ju-Yeun Lee <sup>2</sup> , Youngil Koh* <sup>3</sup> <sup>1</sup> Pharmacy, Seoul National University Hospital, Korea	
	<sup>2</sup> College of Pharmacy, Hanyang University, Korea <sup>3</sup> Hematology , Seoul National University Hospital, Korea	
PP-82	Prevention of PTLD in Children Using Preemptive Rituximab Therapy Bo Kyung Kim, Hyoung Jin Kang*, Kyung Taek Hong, Jung Yoon Choi, Hong Yul An, Che Ry Hong,	
	Hee Young Shin  Department of Pediatrics, Cancer Research Institute, Seoul National University College of Medicine, Korea	
PP-83	A Comparative Analysis of Efficiency Among the Different Donor Groups in Stem Cell Collection Result According to Injected with GCSF on Unrelated Peripheral Blood Stem Cell Donors	
	Ok-Ja Hyoung <sup>1</sup> , Min-Jung Kawk <sup>1</sup> , Tai-Gyu Kim <sup>1</sup> , Young-Shin Lee <sup>2</sup> , Min-Jin Choi <sup>3</sup>	
	<sup>1</sup> Catholic Hematopoietic Stem Cell Bank, Department of Coordination, Catholic University of Korea, Korea <sup>2</sup> Department of Oncology, Asan Medical Center, University of Ulsan College of Medicine, Korea	
	<sup>3</sup> Department of Internal Medicine, Samsung Medical Center, Korea	
PP-84	Granulocyte Transfusions in Pediatric Patients with Neutropenic Fever: A Single Center Experience	
	Eu Jeen Yang¹, Kyung Mi Park¹, Hyun-Ji Lee², Young Tak Lim*¹ ¹ Pediatrics, Pusan National University Children's Hospital, Korea	
	<sup>2</sup> Laboratory Medicine, Pusan National University Yangsan Hospital, Korea	
PP-85	Low Rate of Rh Alloimmunization after Rh-Incompatible Solid Organ Transplantations  Ari Ahn¹, Duck Cho², Sang-Hyun Hwang*¹	
	Part Arith, Duck Crio, Sang-nyun nwang  Department of Laboratory Medicine, University of Ulsan College of Medicine and Asan Medical Center, Korea	

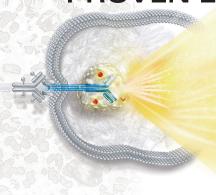
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In relapsed or refractory sALCL3,6

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비호지킨림프종에 brentuximab 단독요법 (2차 이상)

호지킨림프종에 brentuximab 단독요법 (3차 이상)

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PRESCRIBNO INFORMATION

[董管章 및 기를 전혀 1 년에 등 주실보 반복에는 제도한 반복에 비도한했다. (董管章 ) 1 시가 조합인시회에 (이상 사용) 하는 1 시간 조합인시회에 (이 [원료약품 및 그 분래] : 바이알 중 주성분 브랜투시만 베도타(병규) 50mg [출동효과] 1. 자가조형모세포이식(Autologous Stem Cell Transplant, ASCT)을 실패하거나 자가조형모세포이식 비대상 환자에서의 최소 두 가지 이상의 이전 복합 화학요밖에

1. Younse, A. et al. J. J. dim. Oncol. 2012; 30: 2183-2189. 2. Advetris, SUMMARY OF PRODUCT CHARACTERISTICS, Available at http://www.ema.europa.eu/docs/em\_GB/document\_library/EPAR\_\_summary\_for\_the\_public/haman/UDXSSYMC20015500Apt Accessed: A Feb. 2018. 3. Barbara Pio, et al. Bentumania Vestorin ISGN-35) in Patients With Responde on Reinfactor Systemic Analysists; Large-Cell Lymphoma Februs Services (Services) and American Ser







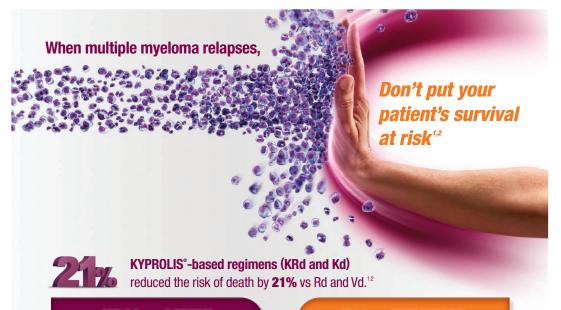
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### **KRd** from **ASPIRE**

- **26.3 months** of median PFS with KRd vs. 17.6 with Rd3 HR 0.69 (0.57-0.83), P=0.0001
- **48.3 months** of median OS with KRd vs. 40.4 with Rd<sup>2</sup> HR 0.79 (0.67-0.95), P = 0.0045
- **3x** patients achieved ≥ CR with KRd vs. Rd3 P < 0.001 in CR+sCR

## Kd from ENDEAVOR

- **18.7 months** of median PFS with Kd vs. 9.4 with Vd4 HR 0.53 (0.44-0.65); P < 0.0001
- **47.6 months** of median OS with Kd vs 40.0 with Vd1 HR 0.79 (0.65-0.96), P = 0.010
- **2x** patients achieved ≥ CR with Kd vs. Vd4

P = 0.0010 in CR+sCR

PFS, progression-free survival; CR, complete response; HRQoL, Health-Related Quality of Life; OS, overall survival; PN, peripheral neuropathy; sCR, stringent complete response

ASPIRE was a randomized, phase 3, open-label, multicenter study evaluating KYPROLIS® in patients with relapsed multiple myeloma who had 1 to 3 prior lines of therapy, 792 patients were randomized in a 1:1 ratio (396 patients) to KRd, 396 to Rd). The primary endpoint was progression-free survival. Secondary endpoints included overall survival, overall response rate (partial response or better), duration of response, health-related quality of life, and safety? ENDEAVOR was a randomized, phase 3, open-label, multicenter study evaluating KYPROUS® in patients with relapsed or refractory multiple myeloma who had 1 to 3 previous treatments. 929 patients were randomly assigned (1:1) to receive carfilzomib with dexamethasone (Kd) or bortezomib with dexamethasone (Vd). The primary endpoint was progression-free survival in the intention-to-treat population. Secondary endpoints included overall survival, overall response (partial response or better), duration of response, incidence of ≥ grade 2 peripheral neuropathy events, and safety.

1. Dimopoulos MA, et al. Lancet Oncol 2017;18:1327-37 2. Siegel DS, et al. J Clin Oncol. 2018 Jan 17. doi: 10.1200/JCO.2017.76.5032 [Epub ahead of print] 3. Stewart AK, et al. N Engl J Med 2015;372:142-52. 4. Dimopoulos MA, et al. Lancet Oncol. 2016;17:27-38.

제품함 카프라리스주(0)라그램, 30웨그크램/카르파조입, 출동효과·이전에 한 가지 이상의 치료를 받은 다발성공수중 황지의 치료에 레닐라도이어드 및 에서에라는 또는 액서에라는파의 병용요법 **용법용라** 3주 동안 매주 2일 연속으로 뛰여 후 12일간 휴약하여 총 28일을 1 치료주기로 한다. 첫 번째 주기의 1일, 2일에 20mg/m²의 시작용광으로 투어한다. [레**날리도이어드 및 엑서에라스파의 병용요법] 1**0분 동안 장맥내 주입으로 투여 시작 용강 투여 후 첫 번째 주기의 8일에 목표 용강 27mg/m²로 중광 한단 : 1367/IPIET는 8일과 9일에 투여하지 않으며 18 37 이후에는 투여를 중단한다. 레빌리도에이드는 1-21일에 25mg을 경구 투여하고, 역사에타슨은 28일 주기의 1일, 8일, 15일, 22일에 40mg을 경구 또는 정맥투이란다. **(에서메타슨의의 병용요법)** 30분동인 경매내 주인으로 위한, 사원용공 부여 후 첫 번째 주기의 8일에 목표용용 50mg/m²로 증공한다. 10 2월 구기의 1, 2, 8, 15, 16, 2, 2 2일에 역사에타슨 20mg을 취구 또는 경맥투이란다. **11을 참사에는 부여하지 잘 차**이 1일 수가운 또 또는 다른 생생에 21만병이 있는 환자, **6년만**용 (레닐리도에이드 및 역사에타슨의의 병용요법) 임상사원에서 10% 6일 보고된 6년만응은 반별, 호증구리소용, 설사 반비, 구역, 피로, 발일, 발굴부흥, 주역동, 상기도당원, 비단무역, 기존지점, 나는 이용에 세간되었어 있는 명시, Video (대체도니비에는 및 Mindelle 다리 영화되었다) 당시 회에서 10% 이상 보고 나 이상이들은 '번호, 호선 나는 경소를 받는 경소를 받는 경소를 하는 경소를 하는 경소를 이 기관시로 하는 경소를 가는 경소를 하는 한다. 보관 및 취급상의 주의사항: 자랑 냉경 근 9C) 보관, 경력 투여를 위한 제구성 및 조제방법: 관리투여당 메스에 주의하여 하여, 제구성하기 전 조제방법을 숙지하여야 한다. 수입판매한: 암젠코리이유한회사 (서울특별시 강남구 테헤턴로 보고 이사 조리를 가장하는 기관 상세 제품성명서를 참고하여주시기 바랍니다.



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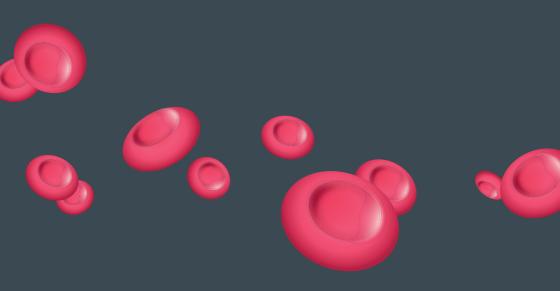
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