www.icksh.org



Step Further Inside the Real World of Precision Hematology

ICKSH 2018

2018 KOREAN SOCIETY OF HEMATOLOGY INTERNATIONAL CONFERENCE & 59th ANNUAL MEETING

In conjunction with BTG 2018 by AP Hematology Consortium

MARCH 29 - 31, 2018

Grand Walkerhill Seoul, Korea





CONTENTS

vveicome iviessage u	elcome Message ()2
----------------------	------------------	----

Organizing Committee 03

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 60th anniversary. As the explosion in the 21st 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 Korea

Scientific Committee

Chair

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	ES01 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	SSO1 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 U NOVARTIS	[Luncheon] ST03 HANDOK		
	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	PL01 Precision 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				

^{*} Session Codes

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

^{*} 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		Symposium 01 tic Syndromes	SP01 Updates on Cellular Therapies	
	The Best Prediction of Prognosis for MDS: How to Integrate Clinical and Molecular Data (Valeria Santini, Italy)		CART Treatment for ALL (Jae Park, USA)	
		natic Mutations in MDS Lee, Korea)	CAR Expressing Effector Cells in Stem Cell Transplantation (Ulrike Kohl, Germany)	
	Pathogenesis and Management of Chronic Myelomonocytic Leukemias (Raphael Itzykson, France)		Ex Vivo T cell-depleted Haploidentical Hematopoietic Cell Transplantation and Cellula	
	Transplanta	Therapy in Stem Cell tion for MDS (im, Korea)	Therapy Post-transplantation (Ho Joon Im, 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	SS03 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		PL02 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)	

^{*} Session Codes

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

^{*} Sessions will be presented in English. Only [KOR] marked sessions will be presented in Korean.



PROGRAM AT A GLANCE March 30 (Fri), 2018

Time	VISTA 1	VISTA 2	VISTA 3
13:00-14:20	SS05 Cell Death Mechanism	SS06 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)
			Deciphering the Cell-of-Origin
	CHIP Controls Necroptosis Through Ubiquitylation- and Lysosome-dependent	Role of Microenvironment and Genetics in BM Failure	Harboring Driver Mutations in Brain Tumors (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	JSH-KSH Join	ology Network: at Symposium sian 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	EHA-KSH Joint Aplastic Anemia Paroxysma	Symposium 02 I Nocturnal Hemoglobinuria	SP02 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)		Cellular Immunotherapy in Multiple Myeloma (Je-Jung Lee, Korea)
17:00-17:10		Break	
17:10-17:50			ST08 Takeda ONCOLOGY
	BEST ABSTRACT PRESENTATION		Novel Treatment Strategies for Multiple Myeloma: A Focus on Oral Proteasome Inhibitors (Antonio Palumbo, Italy)
17:50-18:20	POSTER PRESENTATION 02 (Place: Exhibition Hall, B3)		
18:40-20:00	GALA DINNER (Place: Walkerhill Theatre, B1)		

^{*} Session Codes

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

^{*} Sessions will be presented in English. Only [KOR] marked sessions will be presented in Korean.

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	SS08 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 ((Stephen Hunger, USA)	for ALL
	Progr	ess in Therapy of Philadelphia Positiv (Farhad Ravandi, USA)	re ALL

PROGRAM AT A GLANCE March 31 (Sat), 2018

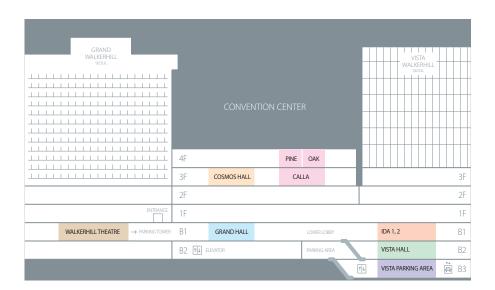
Time	VISTA 1	VISTA 2	VISTA 3
12:30-13:00		WORKING PARTY REPORTS	
13:00-13:30	3:30 AWARD CEREMONY & CLOSING MEETING		TING

^{*} Session Codes

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

^{*} Sessions will be presented in English. Only [KOR] marked sessions will be presented in Korean.

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)

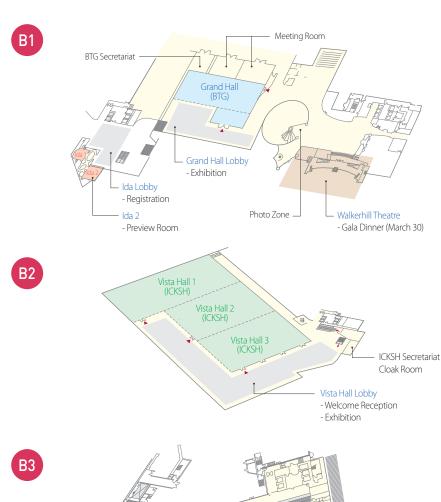
Exhibition

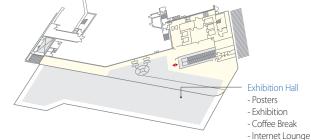
Posters

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)















































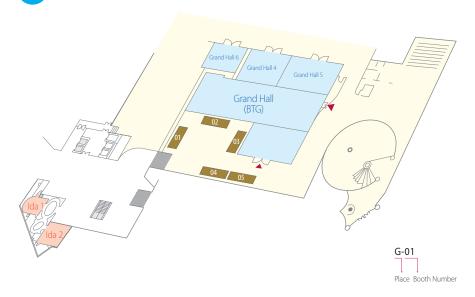






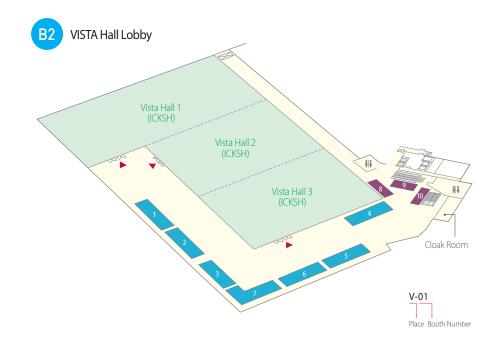
EXHIBITION

Grand Hall Lobby



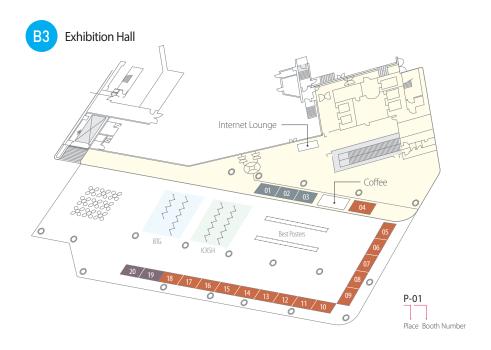
Booth No.	Grade	Company Name
G-01	Gold	Genzyme Korea
G-02	Gold	Pfizer Korea
G-03	Gold	Yuhan Corporation
G-04	Gold	Celgene
G-05	Gold	Celltrionpharm

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



PLENARY LECTURES

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 and University of Melbourne. Australia



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

The Clinical Management of FLT3-Mutated AML

Mark Levis

Johns Hopkins School of Medicine USA

MARCH 30 (Fri.)



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

Human Myeloid Leukemia Stem Cells

Koichi Akashi

Kyushu University Graduate School of Medica Sciences, Japan



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

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

Ulrich Steidl

Albert Finstein College of Medicine 1154

PLENARY LECTURES

MARCH 31 (Sat.)



PL03-01 11:10-11:50 | VISTA Hall (B)

Development of Precision Medicine Trials for ALL

Stephen Hunger

Children's Hospital of Philadelphia USA



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)

07:30 -	Registration	obby
08:00 -	Opening Remarks	ista 1
08:00-09:00	Oral Presentation 01 (Eng.)	ista 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,	Korea)
OP01-2	Acacia Senegal Supplementation Improve Dyslipidemia in Sickle Cell Anemia Nov 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 Repla Irradiated Blood Se Jong Chun (Department of Laboratory Medicine, Chonnam National University Medical School, Korea)	ce
OP01-4	Establishing of Reference Intervals for 16 Complete Blood Count Parameters in He Elderly People Eun Jin Lee (Department of Laboratory Medicine, Hallym University College of Medicine, Ko	
08:00-09:00	Oral Presentation 02 (Eng.)	ista 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 Myelom 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, Chin	ıa)

DAILY PROGRAM March 29 (Thursday)

OP02-3	Dynamics of CMV and EBV Loads after Rabbit ATG and Cyclosporine : A Prospective 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)
OP02-4	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)
OP03-2	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)
OP03-4	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)
OP03-5	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 Secur

09:00-10:00	[ES01] Multiple Myeloma (Kor.)	/ista 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 Univers School of Medicine, Korea)	ity
ES01-2	Smoldering Multiple Myeloma Byung-Su Kim (Department of Hemato-Oncology, Hallym University College of Medicine, K	(orea)
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.)	/ista 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)	rea,
ES02-3	BCR-ABL1 Negative Hematologic Neoplasms; Diseases that are Similar to but Differom CML Hawk Kim (Division of Hematology, Gachon University College of Medicine, Korea)	erent
09:00-10:00	[ES03] Thrombotic Microangiopathy (Kor.)	/ista 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, Ko	rea)

DAILY PROGRAM March 29 (Thursday)

Adult aHUS

ES03-2

ESU3-2	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 Kyung-Nam Koh (Division of Pediatric Hematology/Oncology, Department of Pediatrics, 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, Colle Medicine, The Catholic University of Korea, Korea)	ege of
	Medicine, The Catholic Orliversity of Notea, Notea)	
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 Medicine, K	(orea)
0P04-2	Clinical Features and Treatment Outcomes of Limited State Mantle Cell Lymph (CISL1606) Jae-Cheol Jo (Department of Hematology and Oncology, Ulsan University Hospital, Kore	
OP04-3	Poor Clinical Outcome of Epstein-Barr Virus Associated Secondary Hemophago Lymphohistiocytosis Jae-Ho Yoon (Department of Hematology, Catholic Blood and Marrow Transplantation C Seoul St. Mary's Hospital, Korea)	•
OP04-4	3.5-Yr Follow-Up of Ibrutinib-Treated Relapsed/Refractory Mantle Cell Lympho Patients: Pooled Analysis Seok-Goo Cho (Department of Hematology, Seoul St. Mary's Hospital, The Catholic University 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)	

DAILY PROGRAM March 29 (Thursday)

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)
OP05-3	Comprehensive Analysis of Genetic Variations in Patients with Acute Lymphoblastic Leukemia Borahm Kim (Department of Laboratory Medicine, Yonsei University College of Medicine, Korea)
0P05-4	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.) KYOWA KIRIN Cheol Won Suh (University of Ulsan College of Medicine, Korea) Updated Febrile Neutropenia Management Won Seog Kim (Sungkyunkwan University School of Medicine, Korea)
13:00-14:00 Chair	Luncheon Satellite Symposium 2 (Eng.) UNOVARTIS Vista 2 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 Chair	Luncheon Satellite Symposium 3 (Eng.) HANDOK Vista 3 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 Chairs PL01-1	[PL01] Precision Hematology in Genomics Era (Eng.) Vista 1-3 Yoo-Hong Min (Yonsei University College of Medicine, Korea) Sun Hee Kim (Sungkyunkwan University School of Medicine, Korea) 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)

DAILY PROGRAM March 29 (Thursday)

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 Mole 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, Ko	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 University 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 and 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.) Visit	ta 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 Relaps Multiple Myeloma Ho Sup Lee (Department of Internal Medicine, Kosin University College of Medicine, Korea)	sed
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)	
0P07-3	3-Methyladenine Potentiates Apoptosis of Myeloma Cells via Mitochondrial Reactiv Oxygen Species Yeung-Chul Mun (Department of Hematology, Ewha Womans University, Korea)	'e
OP07-4	The Safety and E cacy of Pomalidomide in Combination with Cyclophosphamide at Dexamethasone (PCD) Ho Sup Lee (Department of Internal Medicine, Kosin University College of Medicine, Korea)	nd
17:10-18:10	Oral Presentation 08 (Eng.)	ta 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 Spherocyto Joon Hong Park (Department of Laboratory Medicine, College of Medicine, The Catholic University of Korea, Korea)	osis
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 Medicine, Chungnam National University Hospital, Cancer Research Institute, Korea)	of
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 Cellular and Biomolecular Research, Canada)	

DAILY PROGRAM March 29 (Thursday)

OP08-4	TET2 and MicroRNA-22 in Myelodysplastic Syndrome Patien Hypomethylating Agents Se Hyung Kim (Department of Internal Medicine, Division of Hemat 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 Myeloic Quoc Thanh Nguyen (Department of Hematology, University of Me Chi Minh city , 2nd Pediatric, Blood Transfusion and Hematology in Medical University, Vietnam)	dicine and Pharmacy in Ho
OP09-2	Evaluation of 10-Year Imatinib's Treatment E ects on Chronic in Chronic Phase Nguyen Phuong Dung Co (Department of Hematology, Pham Ngo Ha Noi Medical University, Blood Transfusion and Hematology in Ho	cThach Medical University,
OP09-3	The Significance of Very Early Molecular Response with Fron in CML Patients Won-Sik Lee (Department of Internal Medicine, Inje University Busa	
OP09-4	Deeper Molecular Response in Newly Diagnosed CML-CP Pa Radotinib: RERISE 3 Years FU Youngrok Do (Department of Hematology and Oncology, Departm Medical Center, Keimyung University, Korea)	
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 Acad Medical Science, China)	deme of
OP10-2	Comparison of Gene Spectrum of Thalassemia in Northern, Southern China and Southeast Asia Quexuan Cui (Department of Hematology, Peking Union Medical Collage Hospital, Chine Academe of Medical Science, China)	
OP10-3	ThalPred: A Web-Based Decision Making Tool for Discriminating Thalassemia Tralron Deficiency Pornlada Nuchnoi (Department of Clinical Microscopy, Faculty of Medical Technology, MaUniversity, Thailand)	
OP10-4	Epidemiology of Hereditary Hemolytic Anemia for 10 Years (2007-2016): RBC Di WP Study Ye Jee Shim (Department of Pediatrics, Keimyung University School of Medicine and Dor 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 School Children, Southwest, Ethiopia Amare Desalegn Wolide (Department of Biomedical Sciences, Jimma University, Ethiopia)	_
0P11-2	Prevalence of Inherited Hemoglobin Disorders and Relationships with Anemia Micronutrient Status Yannick Oyono (Department of Medical Labortory Sciences, University of Buea, Centre Pa 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 Dise 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)	
OP12-1	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)	
OP12-2	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)	
OP12-4	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 School Medicine, Japan)	ol 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 Universit Korea, Korea)	ty of
09:00-10:20	[SS04] Recent Advances in Natural Killer T-cell Lymphoma (Eng.)	ista 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, Sungkyunkwa University School of Medicine, Korea)	ın
09:00-10:00	Oral Presentation 13 (Eng.)	ista 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 Pati Petrus Kanisius Yogi Hariyanto (Department of Medicine, Faculty of Medicine, Udayana Univindonesia)	

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 of Defibrotide Mohamad Mohty (Clinical Hematology and Cellular Therapy Dpt., Sorbonne University, 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 Ca Center, Korea)	ncer
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

	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

2	Robert Orlowski (Department of Lymphoma/Myeloma, Division of GotTexas MD Anderson Cancer Center, USA)	1 /
SP02-3	Cellular Immunotherapy in Multiple Myeloma Je-Jung Lee (Department of Hematology-Oncology, Chonnam Na School, Korea)	tional 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, Korea	n)
BP-01	RAG1 High Expression Associated with IKZF1 Dysfunction in Leukemia Zheng Ge (Zhongda Hospital, Medical School of Southeast Univers	
BP-02	Decision Supporting Tool for Thrombotic Microangiopathy I Technique Youngil Koh ((Hematology & Medical Oncology, Department of Int University College of Medicine, Korea))	J
BP-03	Aberrant ARID5B Expression and IKAROS Regulation in ALL Chunhua Song (Pennsylvania State University Medical College, US,	
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 or Antonio Palumbo (Distinguished Research Fellow Oncology, Takeda AG, Italy)	
17:50-18:20	Poster Presentation 02	Exhibition Hall, B3
18:20-20:00	Gala Dinner	Walkerhill Theatre B1

The Ubiquitin-Proteasome Pathway: Friend and Foe in Multiple Myeloma

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)	
0P14-1	Comparative Study of Porcine ALG and Rabbit ATG as a First-Line Treatment of S Aplastic Anemia Miao Chen (Department of Hematology, Peking Union Medical College Hospital, China)	evere
OP14-2	PIGA Mutations as a Predictors of Treatment Response in PNH Dajeong Jeong (Department of Laboratory Medicine, Seoul National University College o Medicine, Korea)	f
0P14-3	Prognostic Implications of Renal Dysfunction in Korean Patients with PNH Jin Seok Kim (Department of Internal Medicine, Division of Hematology, Severance Hospi Yonsei University College of Medicine, Korea)	tal,
0P14-4	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 M 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)	
0P15-1	Analysis of Genetic Variants Related to the Hepatic Veno-Occlusive Disease in Perpatients Receiving HSCT with Targeted Dose Busulfan Based Conditioning Jung Yoon Choi (Department of Pediatrics, Cancer Research Institute, Seoul National Univ College of Medicine, Korea)	
0P15-2	Enhanced Immunosuppressive Properties of Human Mesenchymal Stem Cells I 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	for
0P15-3	Ruxolitinib Treatment for Steroid-Refractory Graft-Versus-Host Disease Han-Seung Park (Department of Hematology, Asan Medical Center, University of Ulsan Co Medicine, Korea)	ollege of

DAILY PROGRAM March 31 (Saturday)

OP15-4

OP15-4	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		
	lk 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 Hemorrhag 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 Medicine, 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 Medical Center Children's Hospital, University of Ulsan College of Medicine, Korea	271
OP17-2	Reversal of Cytarabine Resistance in AML-OC12 Cell Line after Na/H Exchanger 1 Modulation June-Won Cheong (Department of Internal Medicine, Division of Hematology, Yonsei University 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 Yonsei University Wonju College of Medicine, Korea)	
0P17-4	The Clinical Implication of Cytogenetic Clonal Evolution Pattern in Relap Patients Ji Hyun Lee (Department of Internal Medicine, Dong-A University College of Med	
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 Rese Hospital of Philadelphia, USA)	earch, Children's
PL03-02	Progress in Therapy of Philadelphia Positive ALL Farhad Ravandi (Department of Leukemia, University of Texas – MD Anderson Can	cer 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 Jang¹, So-Young Seol², Dohyu Hwang³, Ju-In Eom², Hoi-Kyung Jeung², Soo-Jeong Kim¹, Jin Seok Kim¹, June-Won Cheong¹, Yoo Hong Min*¹

¹ Department of Internal Medicine, Yonsei University College of Medicine, Korea

² Avison Biomedical Research Center, Yonsei University College of Medicine, Korea

³ 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 Jang¹, Ju-In Eom², Hoi-Kyung Jeung², Haerim Chung¹, So-Young Seol², Soo-Jeong Kim¹, Jin Seok Kim¹, June-Won Cheong¹, Yoo Hong Min*¹

¹ Department of Internal Medicine, Yonsei University College of Medicine, Korea

² 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 Jung¹, Eunhee Han², Jun Eun Park*³

¹ Department of Pediatrics, Ajou University Hospital, Ajou University School of Medicine, Korea

² Department of Pediatrics, Ajou University School of Medicine, Korea

³ 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 Lee¹, Sangkyun Sohn*¹, Joonho Moon¹, Dongwon Back¹, Hyeoung-Joon Kim², Jae-Sook Ahn², Seo-Yeon Ahn², Sung-Hoon Jung²

¹ Hematology, Kyungpook National University Hospital, Korea

² 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 Han¹, Soo-Hyun Kim², Hyoung-June Kim¹, Yoonsung Lee³, Soo-Young Choi², Do-Hyun Kim⁴, Aram Lee⁵, Kibeom Park¹, Jongmin Kim⁵, Je-Min Choi⁴, Yonghwan Kim⁵, Kyungjae Myung³, Hongtae Kim¹, Dong-Wook Kim*2,6

¹ Department of Biological Sciences, Sungkyunkwan University, Korea

POSTER PRESENTATIONS

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

⁴ Department of Life Science, Hanyang University, Korea

⁵ Department of Life Systems, Sookmyung Women's University, Korea

⁶ 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^{1,9}, Soo-Young Choi¹, Soo-Hyun Kim¹, Saengsuree Jootar², Hyeoung-Joon Kim³, Sang-Kyun Sohn⁴, Joon Seong Park⁵, Sung-Hyun Kim⁶, Dae-Young Zangˀ, Suk-Joong Oh՞, Dong-Wook Kim*¹.

¹ Leukemia Research Institute, The Catholic University of Korea, Korea

² BMT Program, Ramathibodi Hospital, Mahidol University, Thailand

³ Department of Hematology, Chonnam National University Medical School, Chonnam National University Hwasun

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

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

⁶ Department of Internal Medicine, Dong-A University, College of Medicine, Korea

⁷ Department of Internal Medicine, Hallym University College of Medicine, Korea

⁸ Department of Internal Medicine, Kangbuk Samsung Hospital, Korea

⁹ 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 Kang¹, Soo-Hyun Kim¹, Soo-Young Choi¹, Sung-Eun Lee^{1,2}, Hae-Lyun Yoo¹, Mi-Young Lee¹, Hye-Young Song¹, Kyung-Mi Kee¹, Ji-Hyung Suh¹, Seon-Young Yang¹, Eun-Jung Jang¹, Dong-Wook Kim*^{1,2} ¹ Leukemia Research Institute, The Catholic University of Korea, Korea

² 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 Yoo¹, Soo-Hyun Kim¹, Soo-Young Choi¹, Mi-Young Lee¹, Hye-Young Song¹, Ki-Hoon Kang¹, Kyoung-Mi Ki¹, Sun-Young Yang¹, Dong-Wook Kim*^{1,2}

¹ Leukemia Research Institute, The Catholic University of Korea, Korea

² 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^{1,2}, Soo-Young Choi², Soo-Hyun Kim², Hye-Young Song², Kyung-Mi Kee², Hea-Lyun Yoo², Mi-Young Lee², Ki-Hoon Kang², Ji-Hyung Suh², Seon-Young Yang², Eun-Jung Jang², Dong-Wook Kim*^{1,2}

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

² Leukemia Research Institute, The Catholic University of Korea, Korea

² 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^{1,9}, Won-Sik Lee², Young Rok Do³, Jae-Yong Kwak⁴, Sukjoong Oh⁵, Sung Hyun Kim⁶, Jeong-A Kim⁷, Dae Young Zang⁸, Soo-Young Choi⁹, Dong-Wook Kim*^{1,9}

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

² Department of Internal Medicine, Inje University College of Medicine, Inje University Busan Paik Hospital, Korea

³ Division of Hematology-Oncology, Keimyung University, School of Medicine, Keimyung University Hospital, Korea

⁴ 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

⁶ Department of Internal Medicine, Dong-A University College of Medicine, Dong-A University Hospital, Korea

⁷ Department of Hematology, The Catholic University of Korea, St. Vincent's Hospital, Korea

⁸ Department of Internal Medicine, Hallym University College of Medicine, Hallym University Hospital, Korea

⁹ 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 Mahmud¹, Huma Asif¹, Ayisha Imran¹, Tasneem Farzana*²

¹ Department of hematology, Chughtai Lab lahore, Pakistan

² 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^{1,2}

¹ Genetic Engineering and Biotechnology, University of Chittagong, Bangladesh

² 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 Jalili¹, Faramarz Jalili², Mahdi Taghadosi³, Mohammad Reza Salahshoor⁴

¹ Department of Anatomy and Cell Biology, Medical Biology Research Center, Kermanshah University of Medical Sciences, Iran

² Students Research Committee, Students Research Committee, Kermanshah University of medical Sciences, Iran

³ Department of Immunology, Department of Immunology, Kermanshah University of Medical Sciences, Iran

⁴ 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 Jalili¹, Cyrus Jalili²

¹ Students Research Committee, Students Research Committee, Kermanshah University of medical Sciences, Iran

² 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^{1,2}, Kamonlak Leecharoenkiat*¹, Chalisa Louicharoen Cheesunthorn³, Issarang Nuchprayoon⁴, Naly Khaminsou², Onkham Savongsy²

¹ Department of clinical Microscopy, Faculty of Allied Health Sciences, Chulalongkorn University, Thailand

² Deparment of Laboratory, Faculty of Medical Technology, University of Health Sciences, Laos

³ Department of Biochemistry, Faculty of Medicine, Chulalongkorn University, Thailand

⁴ 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 Jo¹, Sung Hwa Bae¹, Jinny Park², Hong-Ghi Lee³, Chul Won Choi⁴, Yong Park⁵, Ho Sup Lee⁶, Sung-Hyun Kim⁷, Won-Sik Lee⁸, Soo-Mee Bang⁹, Jun-Ho Jang¹⁰, Inho Kim¹¹, Je-Hwan Lee¹², June-Won Cheong¹³, Seongkyu Park¹⁴, Jong-Ho Won¹⁵, Min Kyoung Kim¹⁶, Hyeok Shim¹⁷, Yeung-Chul Mun¹⁸, Jae-Sook Ahn¹⁹, Deog-Yeon Jo²⁰, Dae Young Zang²¹

¹ Daegu Catholic Univ. Medical Center, Daegu, Korea

² Gil Medical Center Gachon University, Inchon, Korea

³ Konkuk University School of Medicine, Seoul, Korea

⁴ Korea University, Guro Hospital, Seoul, Korea

⁵ Korea University, Anam Hospital, Seoul, Korea

⁶ Kosin University Gospel Hospital, Busan, Korea

⁷ Department of Internal Medicine, Dong-A University College of Medicine, Dong-A University Hospital, Busan, Korea

⁸ Inje Univ. Busan Baik-Hospital, Busan, Korea

⁹ Seoul national university, Bundang hospital, Seongnam-si, Gyeonggi-do, Korea

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

¹¹ Seoul national university hospital, Seoul, Korea

¹² Department of Hematology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea

¹³ Yonsei University College of Medicine, Severance Hospital, Seoul, Korea

¹⁴ Hematology/Oncology, SoonchunhyangUniveristyBucheon Hospital, Bucheon, Korea

¹⁵ Soonchunhyang University Hospital, Seoul, Korea

¹⁶ Department of Internal Medicine, Yeungnam University Medical Center, Daegu, Korea

¹⁷ Wonkwana University Hospital, Iksan, Korea

¹⁸ Department of Internal Medicine, EwhaWomans University School of Medicine, Seoul, Korea

¹⁹ Department of Hematology-Oncology, Chonnam National University Hwasun Hospital, Hwasun-Gun, Korea

²⁰ Department of Internal Medicine, Chungnam National University College of Medicine, Daejeon, Korea

²¹ 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 Chong¹, Seung Bum Hong², Ji Young Lee¹, Eun Jung Lee*¹

¹ Department of Hospital Pathology, College of Medicine, The Catholic University of Korea, Korea

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

Hyery Kim¹, Kyung Nam Koh¹, Ho Joon Im¹, Hyung Jin Kang², Hee Young Shin², Jae Wook Lee³, Nak Gyun Chung³, Bin Cho³, Ji Won Lee⁴, Kun Hee Yoo⁴, Ki Woong Sung⁴, Hong Hoe Koo⁴, Hee Jo Baek⁵, Hoon Kook⁵, Kyung Mi Park⁶, Eu Jeen Yang⁶, Young Tak Lim⁶, Eun Sun Yoo⁷, Kyung-Ha Ryu⁷, Jong Jin Seo*¹

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 Hussain¹, Abul Kalam Naimi²

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 Kim¹, Jae Min Lee², Ji Yeon Ham¹, Jang Soo Suh*¹

¹ Clinical Pathology, Kyungpook National University School of Medicine, Korea

² 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 Liu¹, Junshik Hong*^{1,2}, Kwang-Sung Ahn³, Sung-Soo Yoon^{1,2}

¹ Cancer Research Institute, Seoul National University College of Medicine, Korea

² Department of Internal Medicine, Seoul National University Hospital Seoul National University College of Medicine, Korea

³ 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 Hong¹, Ju Hyun Lee², Ji Yun Lee², Won-II Choi³, Soyeon Ahn⁴, Yun Hee Lee⁵, Soo-Mee Bang*²,

Doyeun Oh⁶

¹ Department of Internal Medicine, Seoul National University College of Medicine, Seoul National University Hospital, Korea ² Department of Internal Medicine, Seoul National University College of Medicine, Seoul National University Bundang

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

⁴ Medical Research Collaborating Center, Seoul National University Bundang Hospital, Korea

⁵ Environmental Health Center, Seoul National University College of Medicine, Korea

⁶ Department of Internal Medicine, CHA university School of Medicine, CHA Bundang 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 Chanpeng¹, Kamonlak Leecharoenkiat*¹, Saowaros Svasti², Duncan R. Smith³, Kittiphong Paiboonsukwong², Wannapa Sornjai³, Wasinee Kheansaard²

¹ Department of Clinical Microscopy, Faculty of Allied Health Sciences, Chulalongkorn University, Thailand

² Department of Genetic Analysis, Crimininal Investigation Command, Ministry of National Defense, Korea

¹ Pediatrics, University of Ulsan College of Medicine, Asan Medical Center, Korea

² Pediatrics, Seoul National University College of Medicine, Korea

³ Pediatrics, The Catholic University of Korea College of Medicine, Korea

⁴ Pediatrics, Sungkyunkwan University School of Medicine, Korea

⁵ Pediatrics, Chonnam National University Hwasun Hospital, Korea

⁶ Pediatrics, Pusan National University College of Medicine, Korea

⁷ Pediatrics, Ewha Womans University College of Medicine, Korea

⁸ Pediatrics, Yonsei University College of Medicine, Korea

⁹ Pediatrics, Ajou University School of Medicine, Korea

¹⁰ Pediatrics, Yeungnam University College of Medicine, Korea

¹ Department of Pharmaceutical Medicine, Jamia Hamdard (Hamdard University), India

² Department of Pharmacology, Jamia Hamdard (Hamdard University), India

² Thalassemia Research Center, Institute of Molecular Biosciences, Mahidol University, Thailand

³ 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 Kalounⁱ¹, Arnav Ghosh*²

¹ Clinical Pathology, Manipal Teaching Hospital, Nepal

² Clinical Pathology, Manipal Teaching Hospital, Nepal

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

Abul Kalam Najmi¹, Salman Hussain²

¹ Department of Pharmacology, Jamia Hamdard, India

² 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 Cheong¹, Min Young Lee², Kyoung Ha Kim², Namsu Lee², Sung Hee Lim², Jina Yoon², Se Hyoung Kim², Chan-Kyu Kim², Sung Kyu Park², Dae Sik Hong², Han Jo Kim², Sang-Cheol Lee², Sang Byung Bae², Kyu Taeg Lee², Jong-Ho Won*²

¹ Institute for Clinical Molecular Biology Research, Soonchunhyang University Hospital, Korea

 2 Division of Hematology-Oncology, Department of Internal Medicine, Soonchunhyang University Hospital, Korea

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

Nitin Agarwal, Prashant Pandey

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 Utomo¹, Anindia Reina Yolanda¹, Nur Rizky Amaliah¹, Petrus Kanisius Yogi Hariyanto¹, Ni Made Dewi Dian Sukmawati², I Made Susila Utama²

¹ Faculty of Medicine, Udayana University, Indonesia

 2 Division of Tropical and Infectious Disease, Department of Internal Medicine, Faculty of Medicine, Udayana University, Sanglah General Hospital, Indonesia

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 Cho¹, Silvia Park¹, Young Hyeh Ko², Hee-Jin Kim³, Sun-Hee Kim³, Kihyun Kim¹, Won Seog Kim¹, Seok Jin Kim*1

¹ Medicine, Samsung Medical Center, Korea

² Pathology, Samsung Medical Center, Korea

³ 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 Park¹, Inho Kim², Soo-Mee Bang³, Ho-Young Yhim⁴, Yeo-Kyeoung Kim⁵, Yang-Ki Kim⁶, Won-II Choi⁷, Chul Won Jung⁸, Doyeun Oh⁹, Sun-Hee Kim¹, Hee-Jin Kim*¹

Department of Laboratory Medicine & Genetics, Samsung Medical Center, Sungkyunkwan University School of Medicine,

 2 Department of Internal Medicine, Seoul National University College of Medicine, Seoul National University Hospital, Korea

³ Department of Internal Medicine, Seoul National University College of Medicine, Seoul National University Bundana Hospital, Korea

⁴ Department of Internal Medicine, Chonbuk National University Medical School, Korea

⁵ Department of Internal Medicine, Chonnam National University College of Medicine, Korea

⁶ Department of Internal Medicine, Soonchunhyang University School of Medicine, Korea

⁷ Department of Internal Medicine, Keymyung University College of Medicine, Korea

⁸ 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 Jalili¹, Cyrus Jalili²

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

Expression of PD-1 in Pediatric Patients with Haploidentical SCT not Correlates with GVHD Eunkyoung You¹, Seongsoo Jang*¹, Ari Ahn¹, Min Young Lee¹, Young-Uk Cho¹, Chan-Jeoung Park¹, Yu Jin Lee², Nu-Ree Park², Eun Seok Choi³, Hery Kim³, Kyung Nam Koh³, Ho Joon Im³, Jong Jin Seo³ ¹ Department of Laboratory Medicine, Asan Medical Center and University of Ulsan College of Medicine, Korea ² Asan Clinical Research Center, Asan Medical Center and University of Ulsan College of Medicine, Korea ³ 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

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

Sang-A Kim¹, Junshik Hong*¹, Go-Un Woo¹, Youngil Koh¹, Dong-Yeop Shin¹, Inho Kim¹, Dong Soon Lee², Sung-Soo Yoon¹

Micafungin Prophylaxis for Acute Myeloid Leukemia Patients Undergoing Induction Chemotherapy

Hyunkyung Park¹, Jiwon Jeong¹, Jeonghwan Youk², Wan Beom Park¹, Dong-Yeop Shin^{1,3}, Junshik Hong^{1,3}, Inho Kim^{1,3}, Nam Joong Kim¹, Sung-Soo Yoon^{1,3}, Youngil Koh*⁴

SET-NUP214 Fusion in Acute Myeloid Leukemia with Massive Hyperdiploidy

Gyu-Dae An¹, In-Hwa Jeong¹, Hyeon-Ho Lim¹, Kwang-Sook Woo¹, Kyeong-Hee Kim¹, Jeong-Man Kim¹, Ji-Hyun Lee², Jin-Yeong Han*

POSTER PRESENTATIONS

Evaluation and Application of RNA Fusion Gene Panel for the Patients with Acute Leukemia Borahm Kim¹, Saeam Shin⁴, Jieun Jang³, Soo Jeong Kim³, Seung-Tae Lee¹, June-Won Cheong², Chuhl Joo Lyu³, Yoo Hong Min², Jong Rak Choi*¹

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

Heerah Lee¹, Chan-Jeoung Park*¹, Eunkyoung You¹, Hyery Kim², Jong Jin Seo²

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

Ilhwan Ryu^{1,2,3}, Jeongsu Han^{1,3}, Yunseon Jang^{1,2,3}, Soo Jeong Kim^{1,2,3}, Min Joung Lee^{1,2,3}, Xianshu Ju^{2,3}, Byeong Hyeon Yoo^{1,2,3}, Yu Lim Lee^{1,2,3}, Min Jeong Ryu^{1,4}, Woosuk Chung⁶, Gi Ryang Kweon^{1,2,4}, Jun Young Heo^{*1,2,3} ¹ Department of Biochemistry, Chungnam National University School of Medicine, Korea

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

Soo-Jeong Kim¹, Ji Eun Jang¹, Hae Rim Chung¹, Chul-Joo Yoo², Jin Seok Kim¹, June-Won Cheong*¹,

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 Jang¹, Youngil Koh*¹, Sung-Soo Yoon¹, Inho Kim¹, Soo-Mee Bang², Jeong-Ok Lee²

¹ Department of Internal Medicine, Seoul National University Hospital, Korea

² Department of Laboratory Medicine, Seoul National University Hospital, Korea

¹ Internal Medicine, Seoul National University Hospital, Korea

² Korea Advanced Institute of Science and Technology, , Korea

³ Cancer Research Institute, Seoul National University College of Medicine, Korea

⁴ Biomedical Research Institute, Seoul National University Hospital, Korea

¹ Department of Laboratory Medicine, Dong-A University College of Medicine, Korea

² Division of Hematology-Oncology, Department of Internal Medicine, Dong-A University College of Medicine, Korea

¹ Department of Laboratory Medicine, Yonsei University College of Medicine, Korea

² Department of Pediatrics, Yonsei University College of Medicine, Korea

³ Department of Internal Medicine, Yonsei University College of Medicine, Korea

⁴ Department of Laboratory Medicine, Hallym University College of Medicine, Kangnam Sacred Heart Hospital, Korea

¹ Laboratory Medicine, University of Ulsan College of Medicine and Asan Medical Center, Korea

² Pediatrics, University of Ulsan College of Medicine and Asan Medical Center, Korea

² Department of Medical Science, Chungnam National University School of Medicine, Korea

³ Infection Control Convergence Research Center, College of Medicine, Chungnam National University, Korea

⁴ Research Institute for Medical Science, Chungnam National University School of Medicine, Korea

⁵ Brain research Institute, Chungnam National University School of Medicine, Korea

⁶ Department of Anesthesiology and Pain Medicine, Chungnam National University Hospital, Korea

¹ Department of Internal Medicine, Yonsei University College of Medicine, Korea

² Department of Pediatrics, Yonsei University College of Medicine, Korea

¹ Internal Medicine , Seoul National University Hospital, Korea

² 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 Park¹, Ji-Hun Lim*¹, Joseph Jeong¹, Sun-Ho Lee¹, Yunsuk Choi², Jae-Cheol Cho², Young-Uk Cho³, Sang-Hyun Hwang³, Seongsoo Jang³, Chan-Jeoung Park³

¹ Department of Laboratory Medicine, University of Ulsan College of Medicine, Ulsan University Hospital, Korea

 2 Department of Hematology and Cellular Therapy, University of Ulsan College of Medicine, Ulsan University Hospital, Korea

³ Department of Laboratory Medicine, University of Ulsan College of Medicine and Asan Medical Center, Korea

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

Hye-Young Song¹, Soo-Young Choi¹, Sung-Eun Lee², Soo-Hyun Kim¹, Hea-Lyun Yoo¹, Mi-Young Lee¹, Ki-Hoon Kang¹, Kyung-Mi Kee¹, Ji-Hyung Suh¹, Seon-Young Yang¹, Dong-Wook Kim*^{1,2} ¹ Leukemia Research Institute, The Catholic University of Korea, Korea

² 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 Kong¹, Sung-Eun Lee², Young-Woo Jeon², Soo Young Choi³, Soo-Hyun Kim³, Eun-Jung Jang³, Hae-Eok Jung⁴, Dong-Wook Kim*^{2,3}

¹ Hematology-Oncology, Wonju Christian Hospital, Yonsei University College of Medicine, Korea

² Hematology, Seoul St. Mary's Hospital, The Catholic University of Korea, Korea

³ Leukemia Research Institute, Seoul St. Mary's Hospital, The Catholic University of Korea, Korea

⁴ 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^{1,2,3,4}, Soo Jeong Kim^{1,2,4}, Min Joung Lee^{1,2,4}, Ilhwan Ryu^{1,2,4}, Xianshu Ju^{1,2,4}, Byeong Hyeon Yoo^{1,2,4}, Yu Lim Lee^{1,2,4}, Yunseon Jang^{1,2,4}, Min Jeong Ryu^{1,2,3}, Junyoung Heo^{1,2,4,5}, Gi Ryang Kweon*^{1,2,3} ¹ Department of Biochemistry, Chungnam National University School of Medicine, Korea

² Department of Medical Science, Chungnam National University School of Medicine, Korea

³ Research Institute for Medical Science, Chungnam National University School of Medicine, Korea

⁴ Infection Control Convergence Research Cente, Chungnam National University School of Medicine, Korea

⁵ 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 Chung¹, Hye-Won Lee², Mi-Kyoung Han^{2,3}, Hyun-Seok Um*²

¹ Laboratory Medicine, Konkuk Medical Center, Korea

² Internal Medicine, Center for Hematologic Malignancy, National Cancer Center Hospital, Korea

³ 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 An¹, In-Hwa Jeong¹, Hyeon-Ho Lim¹, Sung-Suk Cho², Kwang-Sook Woo¹, Kyeong-Hee Kim¹, Jeong-Man Kim¹, Hee-Won Chueh³, Jin-Yeong Han*¹

¹ Department of Laboratory Medicine, Dona-A University College of Medicine, Korea

² Department of Laboratory Medicine, Dong-A University Hospital, Korea

³ Department of Pediatrics Medicine, Dong-A University College of Medicine, Korea

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

Hyunjung Kim¹, Der Sheng Sun*², Joonhong Park¹, Myungshin Kim¹

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

² Internal Medicine, College of Medicine, The Catholic University of Korea, Korea

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 Kim¹, Keon Hee Yoo², Silvia Park³, Seok Jin Kim³, Duck Cho¹, Sun-Hee Kim¹, Hee-Jin Kim^{*1} ¹ Department of Laboratory Medicine and Genetics, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

² Department of Pediatrics, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

 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 Kim¹, Sun Och Yoon², Soo-Jeong Kim³, June-Won Cheong³, Haerim Chung³, Jung Yeom Lee⁴, Ji Eun Jang³, Yundeok Kim¹, Woo-Ick Yang², Yoo Hong Min³, Jin Seok Kim*³

 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 Kim¹, Soo-Jeong Kim², June-Won Cheong², Yundeok Kim¹, Ji Eun Jang², Huynsoo Cho², Haerim Chung², Yoo Hong Min², Woo Ick Yang³, Arthur Cho⁴, Jin Seok Kim*²

¹ Division of Hematology, Department of Internal Medicine, Gangnam Severance Hospital, Yonsei University College of

² 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 Kim¹, Youngil Koh*², Dong-Yeop Shin², Jin Seok Kim³, Kihyun Kim⁴, Chang-Ki Min⁵, Hyeon-Seok Eom⁶, Je Jung Lee⁷, Jeong-Ok Lee⁸, Soo-Mee Bang⁸, Sung-Soo Yoon²

¹ Department of Internal Medicine, Seoul National University Hospital, Korea

 2 Division of Hematology, Department of Internal Medicine, Seoul National University Hospital, Seoul National University College of Medicine, Korea

³ Division of Hematology, Department of Internal Medicine, Severance Hospital, Yonsei University College of Medicine, Korea ⁴ Division of Hematology, Department of Internal Medicine, Samsung Medical Centre, Sungkyunkwan University School of

 5 Division of Hematology, Department of Internal Medicine, Seoul St Mary's Hospital, The Catholic University of Korea, College of Medicine, Korea

⁶ Hematology-Oncology Clinic, Department of Internal Medicine, National Cancer Center, Korea

⁷ Division of Hematology, Department of Internal Medicine, Chonnam National University Hwasun Hospital, Korea

⁸ Division of Hematology, Department of Internal Medicine, Seoul National University Bundang Hospital, Seoul National University College of Medicine, Korea

POSTER PRESENTATIONS

Prognostic Role of Myeloid-Derived Suppressor Cells in Transplant-Eligible Multiple Myeloma Sung-Soo Park^{1,2}, Gi June Min^{1,2}, Young-Woo Jeon^{1,2}, Jae-Ho Yoon^{1,2}, Seung-Ah Yahng³, Seung-Hwan Shin⁴, Sung-Eun Lee^{1,2}, Byung-Sik Cho^{1,2}, Ki-Seong Eom^{1,2}, Yoo-Jin Kim^{1,2}, Seok Lee^{1,2}, Hee-Je Kim^{1,2}, Seok-Goo Cho¹, Jong Wook Lee¹, Chang-Ki Min*^{1,2}

¹ 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 Lim¹, Silvia Park¹, Seok Jin Kim¹, Jun Ho Jang¹, Won Seog Kim¹, Chul Won Jung¹, Hyo Jung Kim², Kihvun Kim¹

¹Division of Hematology-Oncology, Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

The Use of mTOR Inhibitor in Patients with Activated PI3K δ Syndrome 1; A Case Series in Korea Ji-Man Kang ^{1,2}, Su Kyung Kim ¹, Hyeon-Jin Park ³, Sae Rom Choi ¹, Yeon Jung Lim ⁴, Soon Ki Kim ⁵, Meerim Park ⁶, Youn-Soo Hahn⁶, Byung-Kiu Park², Weon Seo Park⁸, Young Hye Ko⁷, Sung Yoon Cho¹, Dong-Kyu Jin¹, Yon Ho Choe¹, Ji Won Lee¹, Keon Hee Yoo¹, Yae-Jean Kim*¹

¹ 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 Daghbashvan¹, Aline Avwaz^{1,2}

² Department of Pathology, Severance Hospital, Yonsei University College of Medicine, Korea

³ Dicision of Hematology, Department of Internal Medicine, Severance Hospital, Yonsei University College of Medicine, Korea

⁴ Department of Internal Medicine, Wonju Severance Christian Hospital, Yonsei University, Wonju College of Medicine, Korea

³ Department of Pathology, Severance Hospital, Yonsei University College of Medicine, Korea

⁴ Department of Nuclear Medicine, Severance Hospital, Yonsei University College of Medicine, Korea

² Leukemia Research Institute, College of Medicine, The Catholic University of Korea, Korea

³ Department of Hematology, Incheon St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea

⁴ Department of Hematology, Yeoido St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea

² Department of Internal Medicine, Hallym University Sacred Heart Hospital, Hallym University College of Medicine, Korea

² Center for Pediatric Cancer, National Cancer Center, Korea

³ Pediatrics, Seoul National University College of Medicine, Korea

⁴ Pediatrics, College of Medicine, Chungnam National University, Korea

⁵ Pediatrics, Inha University Medical Center, Korea

⁶ Pediatrics, College of Medicine, Chungbuk National University, Korea

⁷ Pathology, Sungkyunkwan University School of Medicine, Samsung Medical Center, Korea

⁸ Pathology, National Cancer Center, Korea

¹ Hematology, Hematology Center after Prof. Yeolyan, USA

² Molecular genetics and immunophenotyping laboratory, Hematology Center after Prof. Yeolyan, USA

Ari Ahn¹, Duck Cho², Sang-Hyun Hwang*¹

Korea

¹ Department of Laboratory Medicine, University of Ulsan College of Medicine and Asan Medical Center, Korea ² Department of Laboratory Medicine and Genetics, Samsung Medical Center, Sungkyunwan University School of Medicine,

PP-79	Evaluation of the Immature Platelet Fraction in the Diagnosis of ITP and Other Various Diseases Dong Jin Park ¹ , Sooyoung Kim ¹ , Yeongsic Kim ¹ , Jeong-A Kim ² , Young Hoon Park ² , Dong Jin Park* ¹ 1 Laboratory Medicine, The Catholic University of Korea, St. Vincent's Hospital, Korea	
	² 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 ¹ , Youngnim Choi ² , Ji-Yeob Choi ⁴ , Dong-Yeop Shin ¹ , Youngil Koh ¹ , Hee Kyung Park ³ ,	
	Inho Kim* [†] , Sung-Soo Yoon [†] Department of Internal Medicine, Seoul National University Hospital, Seoul National University College of Medicine, Korea	
	² Department of Oromaxillofacial Infection & Immunity, School of Dentistry and Dental Research Institute, Seoul National University, Korea	
	³ Department of Oral Medicine and Oral Diagnosis, School of Dentistry and Dental Research Institute, Seoul National University, Korea	
	⁴ 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 ¹ , Youree Jung ¹ , Eunjeong Shin ¹ , Sungyun Suh ¹ , Yoonsook Cho ¹ , Ju-Yeun Lee ² , Youngil Koh* ³ ¹ Pharmacy, Seoul National University Hospital, Korea	
	² College of Pharmacy, Hanyang University, Korea ³ Hematology , Seoul National University Hospital, Korea	
PP-82	Prevention of PTLD in Children Using Preemptive Rituximab Therapy	
FF=0Z	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 Hyoung¹, Min-Jung Kawk¹, Tai-Gyu Kim¹, Young-Shin Lee², Min-Jin Choi³¹Catholic Hematopoietic Stem Cell Bank, Department of Coordination, Catholic University of Korea, Korea	
	² Department of Oncology, Asan Medical Center, University of Ulsan College of Medicine, Korea ³ 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*¹¹¹ ¹ Pediatrics, Pusan National University Children's Hospital, Korea	
	² Laboratory Medicine, Pusan National University Yangsan Hospital, Korea	
PP-85	Low Rate of Rh. Alloimmunization after Rh-Incompatible Solid Organ Transplantations	

•		
•		

•		

-		
-		
-		
-		
•		
-		

•		
4		

-		
*		
-		
-		
-		
-		
-		
•		
-		
•		



CD30 TARGETED PROVEN EFFECTIVE14



In relapsed or refractory sALCL3,6

In relapsed or refractory Hodgkin lymphoma with prior ASCT1.5

보험 급여 기준

비호지킨림프종에 brentuximab 단독요법 (2차 이상)

호지킨림프종에 brentuximab 단독요법 (3차 이상)

보험 약가

3,262,400원/바이알

PRESCRIBNO INFORMATION
[董管章 및 기를 전혀 1 여기를 구성 보면 보다 에 보는 반영 구성 기를 보면 보다 이 보는 한다. 1 이 가를 보고 있는 이 가를 [위료약품 및 그 분래] : 바이알 중 주성분 브랜투시만 버도타영규) 50mg [출동효과] 1. 자가조형모세포이식(Autologous Stem Cell Transplant, ASCT)을 실패하거나 자가조형모세포이식 비대상 현자에서의 최소 두 가지 이상의 이전 복합 화학요밖에

1. Younnes A, et al. J J dim Oncol 2012; 30: 2883-2189. 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 as Feb 2018. 3. Behavior Per an et al. Bentumania Vestorin ISGN-35) in Patients With Research of Mentactor Systemic Analysists; Large-Cell Lymphoma Februs about the stress of the Paragraph of Paragra







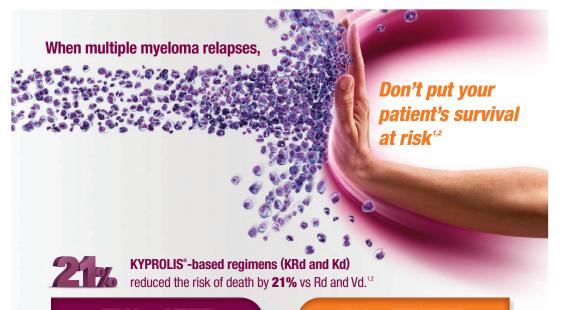
MabThera® SC. The wait is over.



Note of the section of the control o

For more detailed product information and/or reporting product-related adverse events, Please contact Roche Korea (02-3451-3600) For the latest nonduct information, olease refer to Roche Korea website (www.mche.co.kr)





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 Rd² 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 (896 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. in 28일 주기의 11, 2, 8, 15, 16, 2, 2 2일에 역사에타슨 20mg을 취구 또는 경맥투이란다. **11을 참여하고 할 수** 이 일시 주분또 또는 다른 생생에 21만병이 있는 환자, **6년만**용 (레닐리도에이드 및 역사에타슨의의 병용요법) 임상사원에서 10% 6일 보고된 6년만응은 반별, 호증구리소용, 철사전 환수, 철사전 1구, 역시 구역, 때로, 발일, 발굴부흥, 주역중, 상기도당원, 비안목이 기관하고 있다. 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.



14th Floor, Seoul International Tower 203, Teheran-ro, Gangnam-gu, Seoul, 06141 Korea I Office: (82) 2-3434-4800





FN Prophylaxis through every cycle

Neulasta® used first and every cycle helps reduce the incidence of

febrile neutropenia



님이 골수성 암과 골수이형성증을 포함한 암 종류를 증가시키는 요소로 작용할 수 있음 2, **다음 환자에는 투여하지 말 것** 대

서울특별시 강남구 논현동 430(역삼동), 11층(아세아 타워빌딩) 우)06223 TEL:02-3471-4321 FAX:02-3471-4322 Http://www.kyowa-kirin-korea.com





HELP YOUR PATIENTS ALONG THEIR JOURNEY







Don't let severe **VOD*** stand in the way of recovery



데피텔리오'주 200밀리그램 (데피브로타이드) Selected Prescribing Information

[원료약품 및 그 분량] 1mL 중 데피브로타이드 (별규) 80.0mg / 참가제 : 시트르산나트륨수화물, 염산, 수산화나트륨, 주사용수 (遺音: 追과) 조혈모세포 이식 후 중증 간정액폐쇄병의 치료

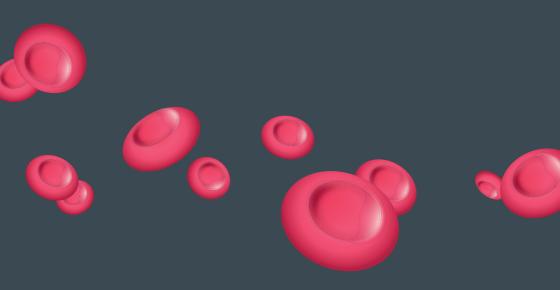
[제조의리자] Genfum S.p.A, Piazza XX Settembre 2, Vilja Guardia 22079, 이탈리아 제 조 자] PATHEON ITALIA S.p.A, 2^{**} Trav, SX Via Morolense 5, 03013 FERENTINO(FR), 이탈리아 수 업 지] (여한독, 서울특별) 설산는 미해면은 17년











ICKSH 2018 & 59th ANNUAL MEETING