

# icksh 2019

MARCH 14 - 16, 2019  
Grand Walkerhill Hotel, Seoul, Korea

Program Book



2019 KOREAN SOCIETY OF  
HEMATOLOGY INTERNATIONAL CONFERENCE  
& 60<sup>th</sup> ANNUAL MEETING



**The Korean Society of Hematology**



## CONTENTS

Welcome Message	02
Organizing Committee	03
Program-at-a-Glance	04
Floor Plan	15
General Information	18
Speaker Information	20
Social Program	21
Sponsors (Acknowledgement)	22
Exhibition	24
Plenary Lectures	28
Daily Program	31
Posters	53



## WELCOME MESSAGE

Dear Colleagues,

On behalf of the Organizing Committee, it is our great honor and pleasure to invite you to the 2019 KSH International Conference & the 60th Annual Meeting, hosted by the Korean Society of Hematology (KSH), which will be held in Seoul, Korea from March 14 to 16, 2019.

The Korean Society of Hematology successfully held the first ICKSH in conjunction with BTG last year, surpassing all expectations. Now, the Organizing Committee is positioning the KSH to lead the field of hematologic diseases through the relationships and cooperation of many countries by sharing our treatment technology with the world. The ICKSH will offer the unique opportunity to learn about the latest findings and research from renowned specialists as well as to exchange ideas and information on the most recent trends.

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. In addition, a variety of stimulating social programs has been planned so participants can enjoy the fascinating Korean culture and share our warm spirit of friendship. We welcome you all and hope you enjoy ICKSH 2019 in Seoul, Korea.



*C.J. Park*

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**Chan-Jeoung Park, M.D., Ph.D.**  
Congress Chair  
The Korean Society of Hematology



*Bin Cho*

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**Bin Cho, M.D., Ph.D.**  
President  
The Korean Society of Hematology



## ORGANIZING COMMITTEE

### Congress Chair

Chan-Jeoung Park  
University of Ulsan, College of Medicine

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Bin Cho  
College of Medicine, The Catholic University of  
Korea

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Hyeon Jin Park  
National Cancer Center






## PROGRAM AT A GLANCE Thursday, March 14

Time	VISTA 1	VISTA 2	VISTA 3	GRAND HALL
08:00-09:00	Registration			
09:00	<b>OPENING REMARKS</b>			
09:00-10:30	<p><b>JS01</b> KAI-KSH JOINT SYMPOSIUM Immunotherapeutics in Blood Disease</p> <p>IL-7-hyFc, a long-acting recombinant IL-7 protein, generates anti-tumor activity by modulating both adaptive and innate immune cells in the tumor microenvironment (Seung-Woo Lee, Korea)</p> <p>Towards next-generation CAR-T cell therapy for cancer (Chan Hyuk Kim, Korea)</p> <p>Immunotherapeutics in blood disease: Cytotoxic T lymphocyte therapy (Hyewon Lee, Korea)</p> <p>Immune checkpoint inhibitor in lymphoma (Yoon Seok Choi, Korea)</p>	<p><b>SS01</b> Bone Marrow Failure</p> <p>Paroxysmal nocturnal hemoglobinuria in bone marrow failure (Jun Ho Jang, Korea)</p> <p>Germline mutations in inherited bone marrow failure (Jean Soulier, France)</p> <p>Telomere length and somatic mutations in aplastic anemia (Dong Soon Lee, Korea)</p>		
10:30-10:45	Coffee Break			
10:45-11:45	<p><b>PL01</b> Gene Therapy in Hematology</p> <p>Application of CRISPR/Cas-9 in blood disease (Matthew H. Porteus, USA)</p> <p>Gene therapy for hemophilia-will there be a new era in hemophilia treatment? (Katherine Ann High, USA)</p>			



## PROGRAM AT A GLANCE Thursday, March 14

Time	VISTA 1	VISTA 2	VISTA 3	GRAND HALL
11:45-12:45	<b>PRESIDENTIAL SYMPOSIUM</b>			
	Stem cells in human AML (Ravi Majeti, USA)			
	Precision medicine in pediatric acute lymphoblastic leukemia (Ching-Hon Pui, USA)			
12:45-13:40	<p>[Luncheon] <b>LS01</b></p>  <p>Treatment free remission in CML: Promise and challenges (Adam Mead, UK)</p>	<p>[Luncheon] <b>LS02</b></p>  <p>Optimal treatment sequencing for patients with relapsed/refractory multiple myeloma (Ajai Chari, USA)</p>	<p>[Luncheon] <b>LS03</b></p>  <p>Current issues in the treatment of B-cell lymphoma (Seok Jin Kim, Korea)</p>	
13:40-14:40	<b>AS01</b> Lymphoid	<b>AS02</b> Myeloid		
	Treatment of Philadelphia chromosome positive acute lymphoblastic leukemia- Korean perspectives (Young Rok Do, Korea)	CML in Philippines (Priscilla B. Caguioa, Philippines)		
	Hematopoietic stem cell transplantation for adult acute lymphoblastic leukemia in Taiwan - on Behalf of TSBMT (Tran-Der Tan, Taiwan)	Outcome of allogeneic hematopoietic stem cell transplantation for SAA and PNH at Vietnam national institute of haematology and blood transfusion (Binh Thi Thanh Vo, Vietnam)		
	Adult ALL in Malaysia (Sen Mui Tan, Malaysia)	Hemoglobinopathy in Thailand (Duantida Songdej, Thailand)		



## PROGRAM AT A GLANCE Thursday, March 14

Time	VISTA 1	VISTA 2	VISTA 3	GRAND HALL
14:40-14:55	Coffee Break			
14:55-16:25	<p><b>J502</b> KOGO-KSH JOINT SYMPOSIUM Genomics for Precision Hematology</p> <p>Understanding angioimmunoblastic T-cell lymphoma: From genomics to animal pathology (Jaesang Kim, Korea)</p> <p>Genomic pathogenesis of Epstein-Barr virus (EBV)-induced diffuse large B cell lymphoma (Sung-Yup Cho, Korea)</p> <p>Current status of precision hematology (Young-Uk Cho, Korea)</p> <p>Clinical application of personalized medicine for AML (Joon-ho Moon, Korea)</p>	<p><b>SS02</b> Multiple Myeloma</p> <p>Immunological weapons against multiple myeloma (Je-Jung Lee, Korea)</p> <p>Roles of bone marrow microenvironment in clonal evolution and drug resistance of multiple myeloma (Yusuke Furukawa, Japan)</p> <p>Antigen-mediated regulation in myeloma (Madhav V. Dhodapkar, USA)</p>	<p><b>SS03</b> Transplantation/ Cell Therapy</p> <p>Thymidine kinase cell therapy (Maria Chiara Bonini, Italy)</p> <p>Updates on CART cell therapy for multiple myeloma (Jesús G. Berdeja, USA)</p> <p>Accelerating personalization of immune therapies for blood cancers (Larry W. Kwak, USA)</p>	<p><b>ES01</b> Iron Metabolism</p> <p>Iron metabolism in hemoglobinopathies (Vip Viprakasit, Thailand)</p> <p>Deferasirox for iron overload patients: Preserving organ functions (Norbert Gattermann, Germany)</p> <p>Management of iron overload in MDS (Heather Alice Leitch, Canada)</p>
16:25-16:40	Break			





## PROGRAM AT A GLANCE Thursday, March 14

Time	VISTA 1	VISTA 2	VISTA 3	GRAND HALL
16:40-18:10	<b>SS04</b> Myeloproliferative Neoplasm	<b>SS05</b> Bleeding Disorder/Thrombosis	<b>SS06</b> Pediatric Disease	<b>ES02</b> Indolent Lymphoma: From Genetics to the Clinic
	Genetic causes of myeloproliferative diseases: Stratification of patients and new therapeutic targets (Robert Kralovics, Austria)	Progress in gene therapy for hemophilia A and B (Glenn F. Pierce, USA)	Inherited hematologic malignancies (Lucy Ann Godley, USA)	Mantle cell lymphoma -from the clinic to genetics (Mats Jerkeman, Sweden)
	Molecular mechanism of MPN development by mutant calreticulin (Norio Komatsu, Japan)	Individualized treatment for hemophilia: Population pharmacokinetics approach (Cindy H.T. Yeung, Canada)	GATA2 deficiency: How to make the diagnosis ? How to treat it ? (Jean Donadieu, France)	From genetics to the clinic: Follicular lymphoma (Gilles Salles, France)
18:10-18:30	Break			
18:30-20:00	<b>WELCOME RECEPTION</b> (Re: BAR, Vista Walkerhill Seoul, 1F)			



## PROGRAM AT A GLANCE Friday, March 15

Time	VISTA 1	VISTA 2	VISTA 3
08:00-09:00	Registration		
09:00-10:30	<b>JS03</b> <b>EHA-KSH JOINT SYMPOSIUM I</b> Multiple Myeloma	<b>SS07</b> Benign Hematology	<b>SS08</b> Histiocytosis
	Monoclonal antibodies in the treatment of multiple myeloma (Francesca Maria Gay, Italy)	EuroBloodNet: The rare anaemia disorders European epidemiological platform (María del Mar Mañú Pereira, Spain)	Langerhans cell histiocytosis 2019: New insights and opportunities (Carl E. Allen, USA)
	Treatment for advanced multiple myeloma in Korea (Chang-Ki Min, Korea)		
	Experimental therapy except monoclonal antibodies (Francesca Maria Gay, Italy)	Clinical utility of high-throughput sequencing for the diagnosis of hereditary hemolytic anemia (Myungshin Kim, Korea)	Treatment of HLH - today and tomorrow (Jan-Inge Henter, Sweden)
	Clinical outcomes of cytogenetic high-risk multiple myeloma in Korea (Kihyun Kim, Korea)	The molecular spectrum of hemoglobinopathy: Thalassemia and Hb variants (Cornelis Leonard Hartevelde, The Netherlands)	Genetic studies on the hemophagocytic lymphohistiocytosis (HLH) in Korea (Jong Jin Seo, Korea)
10:30-10:45	Coffee Break		
10:45-11:45	<b>PL02</b> Clinical Hematology		
	Breakthroughs in the treatment of aplastic anemia (Neal Stuart Young, USA)		




## PROGRAM AT A GLANCE Friday, March 15

Time	GRAND HALL	WALKER HALL 1	WALKER HALL 2
08:00-09:00	Registration		
09:00-10:30	<p style="text-align: center;"><b>ES03</b></p> <p style="text-align: center;">Acute Lymphoblastic Leukemia</p> <hr/> <p>Pharmacogenetics in patients with childhood acute lymphoblastic leukemia                      (Yoichi Tanaka, Japan)</p> <hr/> <p>Recent advances in the treatment of adult ALL                      (Won Sik Lee, Korea)</p> <hr/> <p>Mutational landscape of ALL: Next-generation sequencing-based mutations scanning strategy                      (Seung-Tae Lee, Korea)</p>		
10:30-10:45	Coffee Break		
10:45-11:45			



## PROGRAM AT A GLANCE Friday, March 15

Time	VISTA 1	VISTA 2	VISTA 3
11:45-12:45	<p><b>AS03</b>            Special Report from JSH, CAH, KSH</p> <p>Developing strategies to improve efficacy and safety of chimeric antigen receptor cell therapy (Kyung-Nam Koh, Korea)</p> <p>New insights into poor hematopoietic reconstitution after allo-HSCT (Yuan Kong, China)</p> <p>Targeting hotspot RHOA mutation in angioimmunoblastic T-cell lymphoma (Shigeru Chiba, Japan)</p>	<p><b>POSTER PRESENTATION</b>            (Exhibition Hall, B3)</p>	
12:45-13:40	<p>[Luncheon]  <b>LS04</b>   Bristol-Myers Squibb</p> <p>Advances of CML management and the prospects for the future (Susanne Sauße, Germany)</p>		
13:40-13:50	Coffee Break		



## PROGRAM AT A GLANCE Friday, March 15

Time	GRAND HALL	WALKER HALL 1	WALKER HALL 2
11:45-12:45	<p><b>POSTER PRESENTATION</b> (Exhibition Hall, B3)</p>		
12:45-13:40	<p>[Luncheon] <b>LS06</b> <b>KYOWA KIRIN</b></p> <p>The role of the darbepoetin alfa of the treatment for low-risk of MDS (Jun Ho Jang, Korea)</p>		
13:40-13:50	Coffee Break		



## PROGRAM AT A GLANCE Friday, March 15

Time	VISTA 1	VISTA 2	VISTA 3
13:50-15:05	<b>OP01</b> AML/MDS	<b>OP02</b> ALL	<b>OP03</b> Lymphoma
15:05-16:20	<b>OP07</b> AML/MDS	<b>OP08</b> Multiple Myeloma	<b>OP09</b> Lymphoma/Histiocytosis
16:20-16:35	Break		
16:35-18:05	<b>SS09</b> Future ICT based Medicine	<b>SS10</b> Acute Myeloid Leukemia/ Myelodysplastic Syndromes	<b>SS11</b> Chronic Myeloid Leukemia
	Deep learning for CRISPR-Cpf1 research (Sungroh Yoon, Korea)	Genomics of core-binding factor AML (Nicolas Duployez, France)	Is chronic myeloid leukemia a single hit disorder?: Evidence from next-generation sequencing data (Dennis Kim, Canada)
	Precision dinner: Genomes and health records (Ju Han Kim, Korea)	Precision medicine in AML in the era of novel agents (Gail J. Roboz, USA)	NGS-based ABL1 kinase domain mutation detection (Simona Soverini, Italy)
	Connected health and wellness journey (Jack Ahn, USA)	Incorporation of molecular assessments in risk stratification for myelodysplastic syndromes: Ready for prime time? (Amer M. Zeidan, USA)	Precision medicine and immunity in CML (Satu Mustjoki, Finland)
18:05-18:30	Break		
18:30-20:00	<b>GALA DINNER</b> (Walkerhill Theatre, B1)		



## PROGRAM AT A GLANCE Friday, March 15

Time	GRAND HALL	WALKER HALL 1	WALKER HALL 2
13:50-15:05	<b>OP04</b> Laboratory Hematology/Cell Therapy/Hematopoiesis Stem Cell Biology/Basic Science	<b>OP05</b> Bone Marrow Failure Syndrome/Anemia/Cytopenia	<b>OP06</b> Transplantation
15:05-16:20	<b>OP10</b> MPNs/CML	<b>OP11</b> Platelet/Hemostasis/Thrombosis	<b>OP12</b> Transplantation
16:20-16:35	Break		
16:35-18:05	<p><b>ES04</b> Coagulation</p> <p>Early "Goal-directed Coagulation Therapy" approaches for the management of acute trauma-hemorrhage and trauma-induced coagulopathy (Marc Guido Maegle, Germany)</p> <p>Clinical application of clot waveform analysis in hemophilia treatment (Keiji Nogami, Japan)</p> <p>Thrombin generation assay (Bas de Laat, The Netherlands)</p>		
18:05-18:30	Break		
18:30-20:00	<b>GALA DINNER</b> (Walkerhill Theatre, B1)		



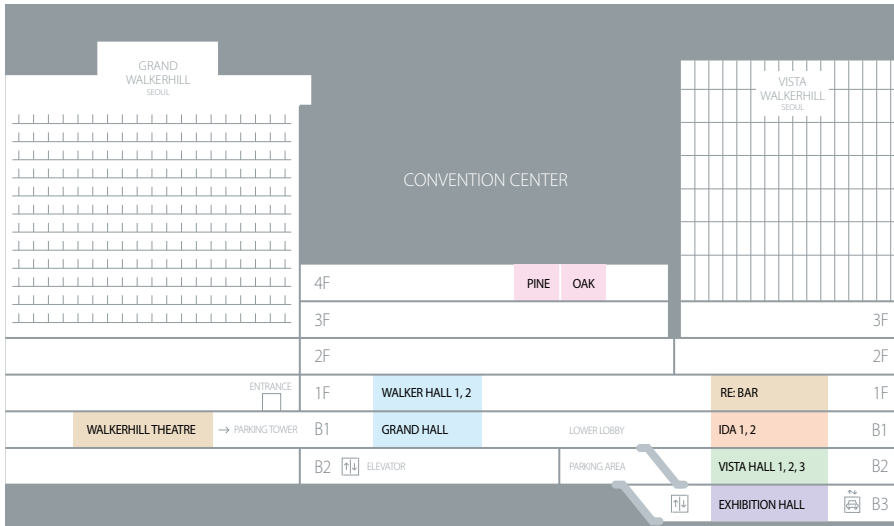
## PROGRAM AT A GLANCE Saturday, March 16

Time	VISTA 1	VISTA 2	VISTA 3	GRAND HALL
07:30-08:30	<b>BUSINESS MEETING</b> (Walker Hall 2, 1F)			
08:30-09:00	<b>WORKING PARTY REPORTS</b>			
09:00-10:30	<b>JS04</b> EHA-KSH JOINT SYMPOSIUM II Chronic Myelogenous Leukemia	<b>SS12</b> Childhood Acute Lymphoblastic Leukemia	<b>SS13</b> Lymphoma	<b>SS14</b> Advances in Technology
	Europe's experience of treatment-free remission in CML (Susanne Saußebe, Germany)	Treatment of childhood ALL with IKZF1 deletion (Malaysia-Singapore ALL 2010 Study) (Allen Yeoh Eng Juh, Singapore)	Pathogenesis of EBV-associated lymphoproliferative disorders (Hiroshi Kimura, Japan)	Droplet microfluidics in antibody discovery, immune repertoire sequencing and personalized cancer therapy (Christoph A. Merten, Germany)
	Korea's experience of treatment-free remission in CML (Hawk Kim, Korea)			
	TKI-related cardiovascular toxicities in Europe (Susanne Saußebe, Germany)	Multicenter clinical trial of pediatric acute lymphoblastic leukemia in China: CCLG 2008 study (Chi-kong Li, Hong Kong)	Molecular understanding of peripheral T-cell lymphoma (Javeed Iqbal, USA)	Applications of single-cell mass cytometry in hematologic malignancies (Gregory Behbehani, USA)
Long-term safety of tyrosine kinase inhibitors in chronic myeloid leukemia patients (Jee Hyun Kong, Korea)	Recent updates of prospective trials for ALL in Japan (Yasuhiro Okamoto, Japan)	Clinical application of cell-free DNA in lymphoma (Seok Jin Kim, Korea)	Prediction of acute myeloid leukemia risk in healthy individuals (Liran I. Shlush, Israel)	
10:30-10:45	Coffee Break			
10:45-11:45	<b>PL03</b> Genomics in Lymphoid Malignancies			
	The new genomics of acute lymphoblastic leukemia (Charles G. Mullighan, USA)			
	Genetic basis and treatment of high-risk multiple myeloma (Gareth J Morgan, USA)			
11:45-12:30	<b>AWARD CEREMONY &amp; CLOSING</b> (Vista 1, B2)			





## FLOOR PLAN Side View



**4F** PINE, OAK  
Meeting Room

**1F** WALKER HALL 1, 2  
Oral Session

**RE:BAR**  
Welcome Reception

<b>B1</b> WALKERHILL THEATRE Gala Dinner	<b>GRAND HALL</b> Scientific Session Exhibition (Lobby) Coffee & Tea (Lobby) Event & Photo Zone (Lobby) Meeting Room	<b>IDA 1, 2</b> ICKSH OC Room VIP Room Preview Room Kit & Cloak Desk (Lobby)
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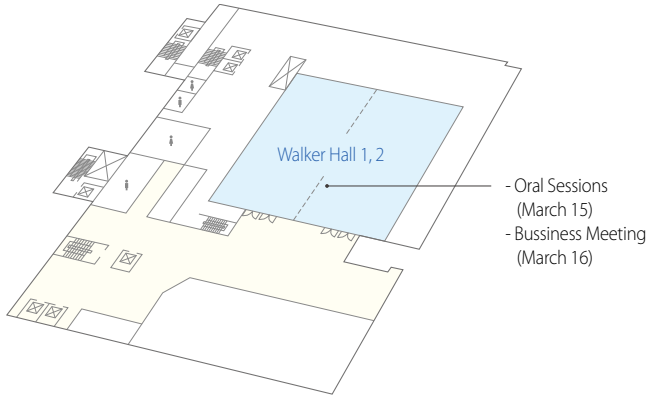
<b>B2</b> VISTA HALL Scientific Session Opening / Closing Ceremony Plenary Session	<b>VISTA HALL LOBBY</b> Exhibition Registration Desk Coffee Break
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**B3** EXHIBITION HALL  
Exhibition  
Posters  
Coffee  
Internet Lounge

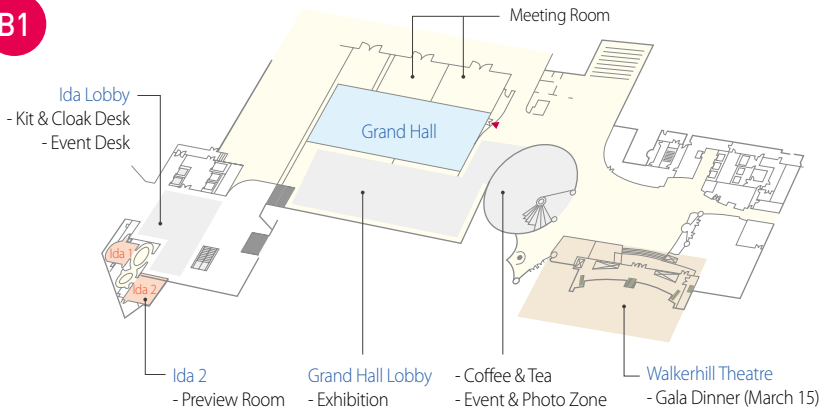


# FLOOR PLAN

1F



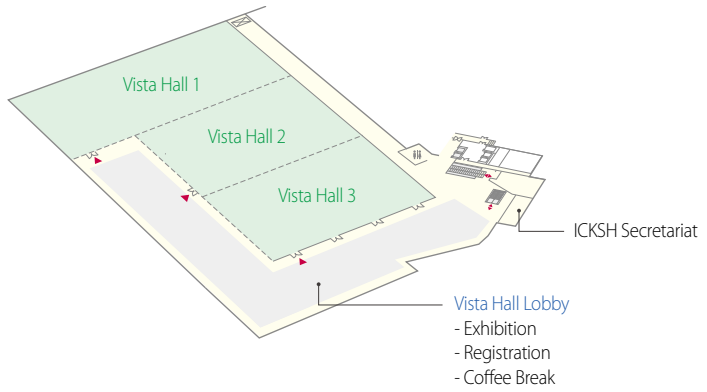
B1



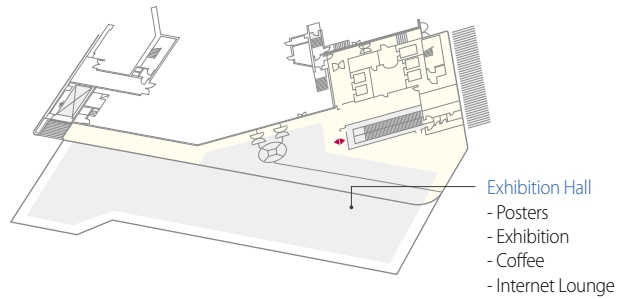


# FLOOR PLAN

B2



B3





## 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	Vista Lobby (B2)
OPERATION HOURS	March 14 (Thu) 08:00 - 18:00 March 15 (Fri) 08:00 - 18:00 March 16 (Sat) 08:00 - 12:30

### 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 Kit desk (B1). 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(B2), Vista Hall 2+3 (B2), Grand Hall (B1)
OPERATION HOURS	March 14 (Thu) 12:45 - 13:40 March 15 (Fri) 12:45 - 13:40

### Coffee Break

Coffee will be served at coffee break times in **Vista Hall Lobby (B2)**.

Barista coffee and tea will be provided during the conference **at the Grand Hall Lobby (B1) and Exhibition Hall (B3)**.



## GENERAL INFORMATION

### Internet

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

### Certificate of Attendance

Participants may receive the certificate of attendance. Please contact the ICKSH 2019 Secretariat after conference via [icksh@icksh.org](mailto:icksh@icksh.org).

### Useful Phone Numbers

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

### Useful Travel Website

- + Seoul City Tourism: <http://www.visitseoul.net>
- + Seoul Metropolitan Government: <http://english.seoul.go.kr>
- + Korean Tourism Organization: <http://kto.visitkorea.or.kr/eng.kto>

### ICKSH2019 Secretariat Office

- + Onsite: Besides Cloak room, Vista Hall Lobby (B2)
  
- + 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](mailto: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 14 (Thu) 08:00 - 18:00 March 15 (Fri) 08:00 - 18:00 March 16 (Sat) 08:00 - 12:00

### Poster Presentation

Pre-selected posters are required to have a presentation time as following schedule.

After onsite reviews, the scientific committee will select Best Posters and the winners should attend the award at Closing Ceremony on March 16 (Sat).

LOCATION	Exhibition Hall (B3)
DATE & TIME	March 15 (Fri) 11:45 - 12:45



## SOCIAL PROGRAM

### Opening

With the opening address by Chan-Jeoung Park, Congress chairman, ICKSH 2019 will begin.

LOCATION	Vista 1 (B2)
DATE & TIME	March 14 (Thu) 09:00

### Welcome Reception

Welcome to ICKSH 2019! The Organizing Committee will prepare welcome reception.

LOCATION	Re:BAR, Vista Walkerhill Seoul (1F)
DATE & TIME	March 14 (Thu) 18:30 - 20:00

### Gala Dinner

Please join us to share an unforgettable evening. Enjoy the climax of ICKSH 2019 with an excellent dinner and exciting performance.

LOCATION	Theater (B1)
DATE & TIME	March 15 (Fri) 18:30 - 20:00



## SPONSORS (Acknowledgement)



Bristol-Myers Squibb



**KYOWA KIRIN**



Eisai Korea Inc.







## SPONSORS (Acknowledgement)

SILVER



BRONZE

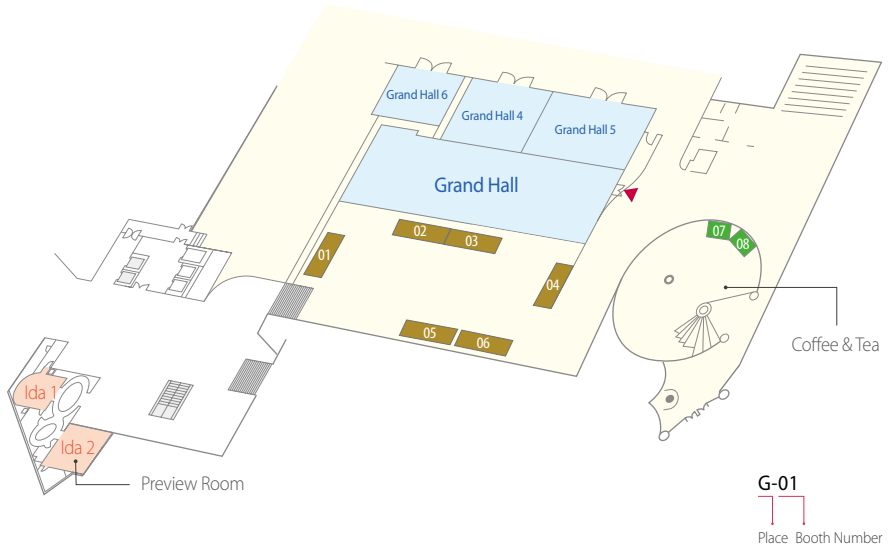




## EXHIBITION

**B1**

Grand Hall Lobby



### Booth No.

G-01  
G-02  
G-03  
G-04  
G-05  
G-06  
G-07  
G-08

### Grade

Gold  
Gold  
Gold  
Gold  
Gold  
Gold  
Others  
Others

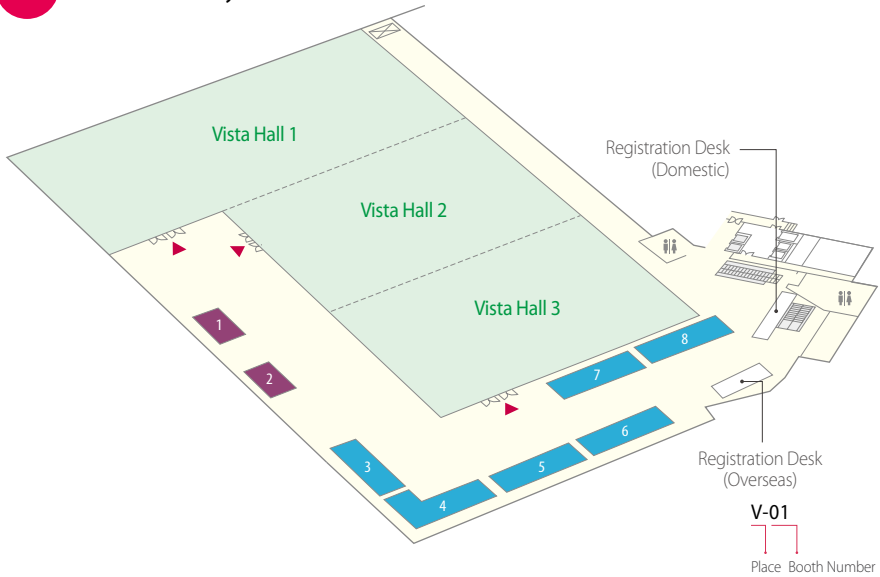
### Company Name

Esai Korea  
MSD Korea  
Celltrionpharm  
Yuhan Corporation  
Celgene Co.  
Handok  
ICBMT 2019  
IACRLRD 2019



# EXHIBITION

## B2 VISTA Hall Lobby



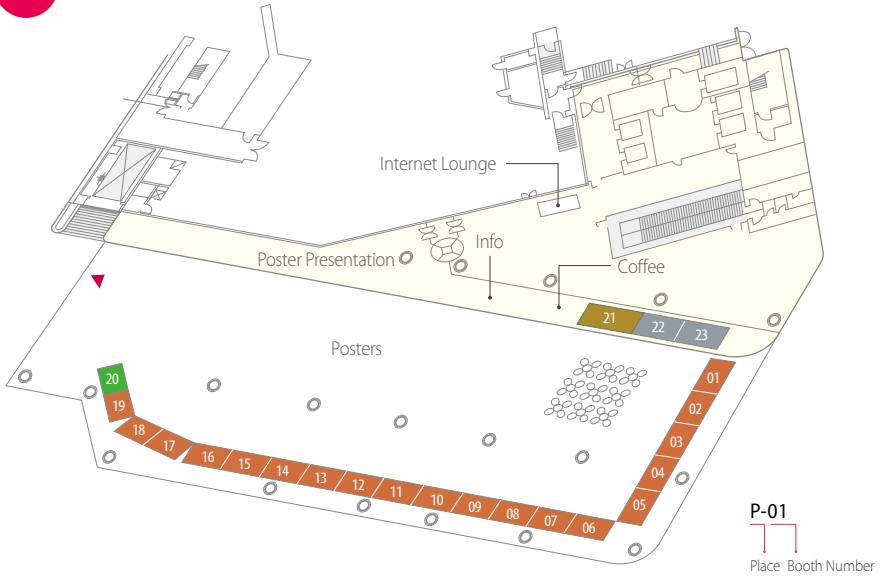
Booth No.	Grade	Company Name
V-03	Diamond	Amgen Korea Limited
V-04	Diamond	Bristol-Myers Squibb Korea
V-05	Diamond	Takeda Pharmaceuticals
V-06	Diamond	Kyowa Kirin/Jeil Pharm
V-07	Diamond	Novartis
V-08	Diamond	Roche Korea, Co Ltd
V-01	Platinum	Janssen Korea
V-02	Platinum	Greencross Corp.



## EXHIBITION

B3

### Exhibition Hall



#### Booth No.

P-21

P-22

P-23

P-01

P-02

P-03

P-04

P-05

P-06

P-07

#### Grade

Gold

Silver

Silver

Bronze

Bronze

Bronze

Bronze

Bronze

Bronze

Bronze

#### Company Name

Sanofi-aventis Korea Co., Ltd.

JW Pharmaceutical

MSD Korea

Novo Nordisk Pharma Korea, Ltd.

Korea Otsuka Pharmaceutical Co., Ltd

Daewoong Pharmaceutical Co., Ltd

BL&H

Daewon Pharm

Shire Pharma Korea

Kwangdong



## EXHIBITION

P-08	Bronze	SK Plasma
P-09 / P-10	Bronze	Pfizer Korea
P-11	Bronze	Donga ST
P-12	Bronze	TEVA-Handok
P-13	Bronze	Mundipharma Korea
P-14	Bronze	Samyang Biopharmaceuticals Corp
P-15 / P-16	Bronze	Boryung Pharmaceutical Co.,Ltd.
P-17	Bronze	Systemex Korea
P-18	Bronze	Ono Pharma Korea
P-19	Bronze	SS Medipia
P-20	Others	Korea Marrow Donor Program



## PLENARY LECTURES

MARCH 14 (Thu)



### PL01-1

10:45 - 11:15 | Vista 1-3 (B2)

Application of CRISPR/  
Cas-9 in blood disease

Matthew H. Porteus

Stanford Medical School, Stanford University, USA



### PL01-2

11:15 - 11:45 | Vista 1-3 (B2)

Gene therapy for hemophilia-will there be  
a new era in hemophilia treatment?

Katherine Ann High

Spark Therapeutics Inc., USA

## PLENARY LECTURES

MARCH 15 (Fri)



### PL02-1

10:45 - 11:15 | Vista 1-3 (B2)

Breakthroughs in the treatment  
of aplastic anemia

Neal Stuart Young

National Institutes of Health, USA



## PLENARY LECTURES

MARCH 16 (Sat)



### PL03-1

10:45 - 11:15 | Vista 1-3 (B2)

The new genomics of acute lymphoblastic leukemia

Charles G. Mullighan

St. Jude Children's Research Hospital, USA



### PL03-2

11:15 - 11:45 | Vista 1-3 (B2)

Genetic basis and treatment of high-risk multiple myeloma

Gareth J Morgan

NYU Myeloma Centre, USA

## PRESIDENTIAL SYMPOSIUM

MARCH 14 (Thu)



### PS-1

11:45 - 12:15 | Vista 1-3 (B2)

Stem cells in human AML

Ravi Majeti

Stanford University, USA



### PS-2

12:15 - 12:45 | Vista 1-3 (B2)

Precision medicine in pediatric acute lymphoblastic leukemia

Ching-Hon Pui

St. Jude Children's Research Hospital, USA



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## DAILY PROGRAM

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March 14 (Thursday)

March 15 (Friday)

March 16 (Saturday)



2019 KOREAN SOCIETY OF  
HEMATOLOGY INTERNATIONAL CONFERENCE  
& 60<sup>th</sup> ANNUAL MEETING



## DAILY PROGRAM Thursday, March 14

08:00-	<b>Registration</b>	Lobby
09:00-	<b>Opening Remarks</b>	Vista 1
09:00-10:30	<b>[JS01] KAI-KSH Joint Symposium: Immunotherapeutics in Blood Disease</b>	Vista 1
Chairs	Tae Woo Kim (Korea University College of Medicine, Korea) Je-Jung Lee (Chonnam National University Medical School, Korea)	
JS01-1	IL-7-hyFc, a long-acting recombinant IL-7 protein, generates anti-tumor activity by modulating both adaptive and innate immune cells in the tumor microenvironment Seung-Woo Lee (POSTECH, Korea)	
JS01-2	Towards next-generation CAR-T cell therapy for cancer Chan Hyuk Kim (KAIST, Korea)	
JS01-3	Immunotherapeutics in blood disease: Cytotoxic T lymphocyte therapy Hyewon Lee (National Cancer Center, Korea)	
JS01-4	Immune checkpoint inhibitor in lymphoma Yoon Seok Choi (Chungnam National University College of Medicine, Korea)	
09:00-10:30	<b>[SS01] Bone Marrow Failure</b>	Vista 2
Chairs	Hoon Kook (Chonnam National University Medical School, Korea) Jean Soulier (University Paris Diderot, France)	
SS01-1	Paroxysmal nocturnal hemoglobinuria in bone marrow failure Jun Ho Jang (Sungkyunkwan University School of Medicine, Korea)	
SS01-2	Germline mutations in inherited bone marrow failure Jean Soulier (University Paris Diderot, France)	
SS01-3	Telomere length and somatic mutations in aplastic anemia Dong Soon Lee (Seoul National University School of Medicine, Korea)	
10:30-10:45	<b>Coffee Break</b>	



## DAILY PROGRAM Thursday, March 14

10:45-11:45 **[PL01] Gene Therapy in Hematology** Vista 1-3

Chair Chan-Jeoung Park (University of Ulsan College of Medicine, Korea)

PL01-1 Application of CRISPR/Cas-9 in blood disease  
Matthew H. Porteus (Stanford Medical School, Stanford University, USA)

PL01-2 Gene therapy for hemophilia-will there be a new era in hemophilia treatment?  
Katherine Ann High (Spark Therapeutics Inc., USA)

11:45-12:45 **[PS] Presidential Symposium** Vista 1-3

Chair Bin Cho (College of Medicine, The Catholic University of Korea, Korea)

PS-1 Stem cells in human AML  
Ravi Majeti (Stanford University, USA)

PS-2 Precision medicine in pediatric acute lymphoblastic leukemia  
Ching-Hon Pui (St. Jude Children's Research Hospital, USA)

12:45-13:40 **[LS01]  NOVARTIS** Vista 1

Chair Dong-Wook Kim (College of Medicine, The Catholic University of Korea, Korea)

Treatment free remission in CML: Promise and challenges  
Adam Mead (University of Oxford, UK)

12:45-13:40 **[LS02]  AMGEN** Vista 2-3

Chair Chang-Ki Min (College of Medicine, The Catholic University of Korea, Korea)

Optimal treatment sequencing for patients with relapsed/refractory multiple myeloma  
Ajai Chari (Mount Sinai Hospital, USA)

12:45-13:40 **[LS03] ** Grand Hall

Chair Hyeon-Seok Eom (Center for Hematologic Malignancy, National Cancer Center, Korea)

Current issues in the treatment of B-cell lymphoma  
Seok Jin Kim (Sungkyunkwan University School of Medicine, Korea)



## DAILY PROGRAM Thursday, March 14

13:40-14:40

### [AS01] Lymphoid

Vista 1

Chairs Seok Lee (College of Medicine, The Catholic University of Korea, Korea)  
Tran-Der Tan (Koo Foundation Sun Yat-Sen Cancer Center, Taiwan)

AS01-1 Treatment of Philadelphia chromosome positive acute lymphoblastic leukemia-  
Korean perspectives  
Young Rok Do (Keimyung University School of Medicine, Korea)

AS01-2 Hematopoietic stem cell transplantation for adult acute lymphoblastic leukemia in  
Taiwan – on Behalf of TSBMT  
Tran-Der Tan (Koo Foundation Sun Yat-Sen Cancer Center, Taiwan)

AS01-3 Adult ALL in Malaysia  
Sen Mui Tan (Hospital Ampang, Malaysia)

13:40-14:40

### [AS02] Myeloid

Vista 2

Chairs Won Sik Lee (Inje University School of Medicine, Korea)  
Bach Quoc Khanh (National Institute of Hematology and Blood Transfusion, Vietnam Society of  
Hematology and Blood Transfusion, Vietnam)

AS02-1 CML in Philippines  
Priscilla B. Caguioa (University of Santo Tomas Hospital, St. Luke's Medical Center, Philippines)

AS02-2 Outcome of allogeneic hematopoietic stem cell transplantation for SAA and PNH at  
Vietnam national institute of haematology and blood transfusion  
Binh Thi Thanh VO (National Institute of Hematology and Blood Transfusion, Vietnam)

AS02-3 Hemoglobinopathy in Thailand  
Duantida Songdej (Ramathibodi Hospital, Mahidol University, Thailand)

14:40-14:55

Coffee Break

14:55-16:25

### [JS02] KOGO-KSH Joint Symposium: Genomics for Precision Hematology

Vista 1

Chairs Sanghyuk Lee (Ewha Womans University School of Medicine, Korea)  
Sun-Hee Kim (Sungkyunkwan University School of Medicine, Korea)



## DAILY PROGRAM Thursday, March 14

- JS02-1 Understanding angioimmunoblastic T-cell lymphoma: From genomics to animal pathology  
Jaesang Kim (Department of Life Science, Ewha Womans University, Korea)
- JS02-2 Genomic pathogenesis of Epstein-Barr Virus (EBV)-induced diffuse large B cell lymphoma  
Sung-Yup Cho (Seoul National University College of Medicine, Korea)
- JS02-3 Current status of precision hematology  
Young-Uk Cho (University of Ulsan College of Medicine, Korea)
- JS02-4 Clinical application of personalized medicine for AML  
Joon-ho Moon (Kyungpook National University Hospital, Korea)
- 14:55-16:25 **[SS02] Multiple Myeloma-How is Multiple Myeloma Developed and Progressed? From 3 Different Viewpoint** Vista 2
- Chairs Chang-Ki Min (College of Medicine, The Catholic University of Korea, Korea)  
Yusuke Furukawa (Jichi Medical University, Japan)
- SS02-1 Immunological weapons against multiple myeloma  
Je-Jung Lee (Chonnam National University Medical School, Korea)
- SS02-2 Roles of bone marrow microenvironment in clonal evolution and drug resistance of multiple myeloma  
Yusuke Furukawa (Jichi Medical University, Japan)
- SS02-3 Antigen-mediated regulation in myeloma  
Madhav V. Dhodapkar (Emory University, USA)
- 14:55-16:25 **[SS03] Transplantation/Cell Therapy** Vista 3
- Chairs Hyeon-Seok Eom (Center for Hematologic Malignancy, National Cancer Center, Korea)  
Maria Chiara Bonini (Università Vita-Salute San Raffaele, Italy)
- SS03-1 Thymidine kinase cell therapy  
Maria Chiara Bonini (Università Vita-Salute San Raffaele, School of Medicine, Italy)
- SS03-2 Updates on CART cell therapy for multiple myeloma  
Jesús G. Berdeja (Sarah Cannon Research Institute, USA)
- SS03-3 Accelerating personalization of immune therapies for blood cancers  
Larry W. Kwak (City of Hope Comprehensive Cancer Center, USA)



## DAILY PROGRAM Thursday, March 14

14:55-16:25

### [ES01] Iron Metabolism

Grand Hall

Chairs Joon Seong Park (Ajou University School of Medicine, Korea)  
 Heather Alice Leitch (University of British Columbia, Canada)

ES01-1 Iron metabolism in hemoglobinopathies  
 Vip Viprakasit (Medicine Siriraj Hospital, Mahidol University, Thailand)

ES01-2 Deferasirox for iron overload patients: Preserving organ functions  
 Norbert Gattermann (Heinrich Heine University, Düsseldorf, Germany)

ES01-3 Management of iron overload in MDS  
 Heather Alice Leitch (University of British Columbia, Canada)

16:25-16:40

Break

16:40-18:10

### [SS04] Myeloproliferative Neoplasm

Vista 1

Chairs Chul Won Choi (Korea University Guro Hospital, Korea)  
 Robert Kralovics (CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences, Austria)

SS04-1 Genetic causes of myeloproliferative diseases: Stratification of patients and new therapeutic targets  
 Robert Kralovics (CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences, Austria)

SS04-2 Molecular mechanism of MPN development by mutant calreticulin  
 Norio Komatsu (Juntendo University School of Medicine, Japan)

SS04-3 Interferon in myeloproliferative neoplasms  
 Jean-Jacques Kiladjan (Saint-Louis Hospital and Paris 7 University, France)

16:40-18:10

### [SS05] Bleeding Disorder/Thrombosis

Vista 2

Chairs Sung-Hyun Kim (Dong-A University College of Medicine, Korea)  
 Glenn F. Pierce (World Federation of Hemophilia, USA)

SS05-1 Progress in gene therapy for hemophilia A and B  
 Glenn F. Pierce (World Federation of Hemophilia, USA)



## DAILY PROGRAM Thursday, March 14

- SS05-2 Individualized treatment for hemophilia: Population pharmacokinetics approach  
Cindy H. T. Yeung (McMaster University, Canada)
- SS05-3 Mechanisms of cancer-associated thrombosis  
Nigel Mackman (University of North Carolina, USA)
- 16:40-18:10 **[SS06] Pediatric Disease: Inherited Hematologic Malignancies** Vista 3
- Chairs Nack Gyun Chung (College of Medicine, The Catholic University of Korea, Korea)  
Lucy Ann Godley (The University of Chicago, USA)
- SS06-1 Inherited hematologic malignancies  
Lucy Ann Godley (The University of Chicago, USA)
- SS06-2 GATA2 deficiency: How to make the diagnosis? How to treat it?  
Jean Donadieu (Hopital Trousseau, France)
- SS06-3 Roles of monosomy 7 and SAMD9/SAMD9L mutations in myeloid leukemogenesis  
Hirotaka Matsui (Kumamoto University, Japan)
- 16:40-18:10 **[ES02] Indolent Lymphoma: From Genetics to the Clinic** Grand Hall
- Chairs Inho Kim (Seoul National University College of Medicine, Korea)  
Mats Jerkeman (Lund University, Sweden)
- ES02-1 Mantle cell lymphoma -from the clinic to genetics  
Mats Jerkeman (Lund University, Sweden)
- ES02-2 From genetics to the clinic: Follicular lymphoma  
Gilles Salles (Université Claude Bernard Lyon—1 (UCBL), France)
- ES02-3 From genetics to the clinic of chronic lymphocytic leukemia  
Wei Xu (First Affiliated Hospital of Nanjing Medical University, China)
- 18:10-18:30 Break
- 18:30-20:00 **Welcome Reception** Re:BAR, Vista Walkerhill Seoul (1F)



## DAILY PROGRAM Friday, March 15

- 09:00-10:30** **[JS03] EHA-KSH Joint Symposium I: Multiple Myeloma** Vista 1
- Chairs Jae-Yong Kwak (Chonbuk National University Medical School, Korea)  
Francesca Maria Gay (AOU Città della Salute e della Scienza, Italy)
- JS03-1** Monoclonal antibodies in the treatment of multiple myeloma  
Francesca Maria Gay (AOU Città della Salute e della Scienza, Italy)
- JS03-2** Treatment for advanced multiple myeloma in Korea  
Chang-Ki Min (College of Medicine, The Catholic University of Korea, Korea)
- JS03-3** Experimental therapy except monoclonal antibodies  
Francesca Maria Gay (AOU Città della Salute e della Scienza, Italy)
- JS03-4** Clinical outcomes of cytogenetic high-risk multiple myeloma in Korea  
Kihyun Kim (Sungkyunkwan University School of Medicine, Korea)
- 
- 09:00-10:30** **[SS07] Benign Hematology: Hereditary Red Blood Cell Defect** Vista 2
- Chairs Jin Yeong Han (Dong-A University College of Medicine, Korea)  
Cornelis Leonard Harteveld (Leiden University Medical Center, The Netherlands)
- SS07-1** EuroBloodNet: The rare anaemia disorders European epidemiological platform  
María del Mar Mañú Pereira (University Hospital Vall d'Hebron, Vall d'Hebron Research Institute, Spain)
- SS07-2** Clinical utility of high-throughput sequencing for the diagnosis of hereditary hemolytic anemia  
Myungshin Kim (College of Medicine, The Catholic University of Korea, Korea)
- SS07-3** The molecular spectrum of hemoglobinopathy: Thalassemia and Hb variants  
Cornelis Leonard Harteveld (Leiden University Medical Center, The Netherlands)
- 
- 09:00-10:30** **[SS08] Histiocytosis** Vista 3
- Chairs Chuhl Joo Lyu (Yonsei University College of Medicine, Korea)  
Ho Joon Im (University of Ulsan College of Medicine, Korea)
- SS08-1** Langerhans cell histiocytosis 2019: New insights and opportunities  
Carl E. Allen (Baylor College of Medicine, USA)
- SS08-2** Treatment of hemophagocytic lymphohistiocytosis - today and tomorrow  
Jan-Inge Henter (Karolinska Institute, Sweden)






## DAILY PROGRAM Friday, March 15

- SS08-3 Genetic studies on the hemophagocytic lymphohistiocytosis (HLH) in Korea  
Jong Jin Seo (University of Ulsan College of Medicine, Korea)
- 09:00-10:30 **[ES03] Acute Lymphoblastic Leukemia** Grand Hall
- Chairs Dae Young Zang (Hallym University College of Medicine, Korea)  
Chi-kong Li (The Chinese University of Hong Kong, Hong Kong)
- ES03-1 Pharmacogenetics in patients with childhood acute lymphoblastic leukemia  
Yoichi Tanaka (Kitasato University, Japan)
- ES03-2 Recent advances in the treatment of adult ALL  
Won Sik Lee (Inje University School of Medicine, Korea)
- ES03-3 Mutational landscape of ALL: Next-generation sequencing-based mutations scanning strategy  
Seung-Tae Lee (Yonsei University College of Medicine, Korea)
- 10:30-10:45 Coffee Break
- 10:45-11:45 **[PL02] Clinical Hematology** Vista 1-3
- Chair Hwi-Joong Yoon (Kyung Hee University College of Medicine, Korea)
- PL02-1 Breakthroughs in the treatment of aplastic anemia  
Neal Stuart Young (National Institutes of Health, USA)
- 11:45-12:45 **[AS03] Special Report from JSH, CAH, KSH** Vista 1
- Chairs Hee-Je Kim (College of Medicine, The Catholic University of Korea, Korea)  
Shigeru Chiba (University of Tsukuba, Japan)
- AS03-1 Developing strategies to improve efficacy and safety of chimeric antigen receptor cell therapy  
Kyung-Nam Koh (University of Ulsan College of Medicine, Korea)
- AS03-2 New insights into poor hematopoietic reconstitution after allo-HSCT  
Yuan Kong (Peking University People's Hospital, China)
- AS03-3 Targeting hotspot RHOA mutation in angioimmunoblastic T-cell lymphoma  
Shigeru Chiba (University of Tsukuba, Japan)



## DAILY PROGRAM Friday, March 15

11:45-12:45 **Poster Presentation** Exhibition Hall, B3

12:45-13:40 **[LS04]**  **Bristol-Myers Squibb** Vista 1

Chair Dong-Wook Kim (College of Medicine, The Catholic University of Korea, Korea)

Advances of CML management and the prospects for the future  
Susanne Saußebe (University of Mannheim, Germany)

12:45-13:40 **[LS05]**  **Takeda ONCOLOGY** Vista 2-3

Chair Won Seog Kim (Sungkyunkwan University School of Medicine, Korea)

A new paradigm shift in frontline treatment of hodgkin lymphoma  
Andrea Gallamini (Medical Innovation & Statistics A. Lacassagne Cancer Center, France)

12:45-13:40 **[LS06]** **KYOWA KIRIN** Grand Hall

Chair Je-Hwan Lee (University of Ulsan College of Medicine, Korea)

The role of the darbepoetin alfa of the treatment for low-risk of MDS  
Jun Ho Jang (Sungkyunkwan University School of Medicine, Korea)

13:40-13:50 Coffee Break

13:50-15:05 **[OP01] Acute Myeloid Leukemia/Myelodysplastic Syndrome** Vista I

Chairs Jeong Yeal Ahn (Gachon University Gil Hospital, Korea)  
June-Won Cheong (Yonsei University College of Medicine, Korea)

**OP01-1** RNA sequencing as an alternative tool for detecting measurable residual disease in core binding factor acute myeloid leukemia  
Taehyung Kim (University of Toronto, Canada)

**OP01-2** Different predictive roles of risk group and WT1 expression in elderly AML treated by intensive chemotherapy or hypomethylating agent  
Seung-Hwan Shin (The Catholic University of Korea Yeouido St. Mary's Hospital, Korea)



## DAILY PROGRAM Friday, March 15

- OP01-3 Role of plasma gelsolin protein in the final stage of erythropoiesis and in correction of myelodysplasia  
Eun Jung Baek (Hanyang University Guri Hospital, Korea)
- OP01-4 Research use only and cell population data items from DxH800 analyzer is useful in discriminating MDS patients from those with cytopenia without MDS  
Sang Hyuk Park (University of Ulsan College of Medicine, Korea)
- OP01-5 Androgen therapy for lower-risk myelodysplastic syndrome  
Eun-Ji Choi (University of Ulsan College of Medicine, Korea)
- OP01-6 Lenalidomide as a second-line therapy after failure of hypomethylating agents in patients with myelodysplastic syndrome (VIOLTET study)  
Hawk Kim (Gachon University Gil Medical Center, Korea)

13:50-15:05

### [OP02] Acute Lymphoblastic Leukemia

Vista 2

- Chairs Eun Sil Park (Gyeongsang National University College of Medicine, Korea)  
Sung Hwa Bae (Catholic University of Daegu School of Medicine, Korea)
- OP02-1 A pragmatic, non-interventional study to evaluate effectiveness and safety of clofarabine in Korean pediatric patients with refractory or relapsed acute lymphoblastic leukemia  
Jung Yoon Choi (Seoul National University College of Medicine, Korea)
- OP02-2 The genotype distribution and pharmacogenetic effect on mercaptopurine dose of NUDT15 and TPMT in Korean children with acute lymphoblastic leukemia  
Hyery Kim (University of Ulsan College of Medicine, Korea)
- OP02-3 Mutational profiling through exome sequencing along with MYD88 L265P analysis could facilitate the diagnosis of vitreoretinal lymphoma  
Borahm Kim (Yonsei University College of Medicine, Korea)
- OP02-4 Utility of MLPA as a cost effective diagnostic and prognostic method in hematological malignancies: Experience of a tertiary care centre from India  
Prateek Bhatia (Post Graduate Institute of Medical Education and Research, India)
- OP02-5 Genetic characteristics and long-term outcomes of Korean adult patients with Ph-Like ALL versus non-Ph-Like ALL  
Jae-Ho Yoon (The Catholic University of Korea Seoul St. Mary's Hospital, Korea)
- OP02-6 Outcomes after second allogeneic hematopoietic cell transplantation in relapsed acute lymphoblastic leukemia: A single-center experience  
Seug Yun Yoon (The Catholic University of Korea Seoul St. Mary's Hospital, Korea)



## DAILY PROGRAM Friday, March 15

### 13:50-15:05 [OP03] Lymphoma Vista 3

Chairs Sung-yong Oh (Dong-A University College of Medicine, Korea)  
 Deok Hwan Yang (Chonnam National University Medical School, Korea)

OP03-1 Diffuse large B-cell lymphomas carrying chromosomal abnormalities showed a poor prognosis despite aggressive treatment  
 Gi June Min (The Catholic University of Korea Seoul St. Mary's Hospital, Korea)

OP03-2 Telomere length and its correlation with gene mutations in chronic lymphocytic leukemia in a Korean population  
 Da Young Song (Seoul National University Hospital, Korea)

OP03-3 International prognostic index improves prognostic value of interim PET-CT scans in diffuse large B-cell lymphoma  
 Ho-Young Yhim (Chonbuk National University Hospital, Korea)

OP03-4 Screening for monoclonal B-lymphocytes expansions in a hospital-based Chinese population with lymphocytosis  
 Jiadai Xu (Zhongshan Hospital, Fudan University, China)

OP03-5 Peripheral T cell lymphoma - Demographic profile and outcomes : 17 years experience from tertiary cancer centre, India  
 Siva Sree Kesana (Cancer Institute (WIA), India)

OP03-6 A multicenter retrospective analysis of clinicopathologic features of monomorphic epitheliotropic intestinal T-cell lymphoma  
 Jun Ho Yi (Chung-Ang University, Korea)

### 13:50-15:05 [OP04] Laboratory Hematology/Cell Therapy/ Hematopoiesis Stem Cell Biology/Basic Science Grand Hall

Chairs Myung Geun Shin (Chonnam National University Medical School, Korea)  
 Hyun Kyung Kim (Seoul National University College of Medicine, Korea)

OP04-1 Autophagy and unfolded protein response as the regulatory mechanism for the sensitivity of leukemia stem cells to G9a inhibitor  
 Ji Eun Jang (Yonsei University College of Medicine, Korea)

OP04-2 3-methyladenine potentiates bortezomib-induced apoptosis of myeloma cell via increasing mitochondrial ROS through autophagy inhibition  
 Chu Myong Seong (Ehwa Womans University Mokdong Hospital, Korea)



## DAILY PROGRAM Friday, March 15

- OP04-3 Adoptive transfer of type 1-regulatory T cell ameliorates GVHD by partial differentiation into Foxp3+CD4+T cell with CTLA-4 and ICOS dependent manner  
Young-Woo Jeon (Catholic Hematology Hospital, Korea)
- OP04-4 Understanding thrombocytopenia: Role of MicroRNA in neonatal and adult megakaryopoiesis  
Ravi Kumar Gutti (University of Hyderabad, India)
- OP04-5 The expression level of prohibitin 2 as mitochondrial autophagy receptor matches the prognostic chromosomal aberrations of hematological malignancies  
Jun Hyung Lee (Chonnam National University Hwasun Hospital, Korea)
- OP04-6 Epigallocatechin gallate suppresses interleukin-1 $\beta$  Secretion by inhibition of NLRP3 inflammasome  
Cheng Zhang (Qilu Hospital, Shandong University, China)

13:50-15:05

### [OP05] Bone Marrow Failure Syndrome/Anemia/ Cytopenia

Walker Hall 1

- Chairs Deog-Yeon Jo (Chungnam National University College of Medicine, Korea)  
Hye Lim Jung (Sungkyunkwan University School of Medicine, Korea)
- OP05-1 HLA-G-ILT2 interaction contribute to suppression of marrow B-cell growth in acquired aplastic anemia  
Peng Chen (Qilu Hospital of Shandong University, China)
- OP05-2 A phase 3, multicenter, noninferiority study of ravulizumab (ALXN1210) vs eculizumab in adult patients with PNH naive to complement inhibitors  
Jong Wook Lee (The Catholic University of Korea Seoul St. Mary's Hospital, Korea)
- OP05-3 Prediction of thrombosis risk in patients with paroxysmal nocturnal hemoglobinuria  
Yuzhou Huang (Peking Union Hospital, China)
- OP05-4 High prevalence of anemia in elderly in South Korea: Urgent health-care problem before post-aged society- base on data from the KNHANES  
Hee Won Chueh (Dong-A University College of Medicine, Korea)
- OP05-5 Vitamin-D and biochemical status in young children with beta-thalassemia major  
Uet Yu (Shenzhen Children's Hospital, China)
- OP05-6 Application of rapamycin up-regulating treg cell ratio in children with chronic refractory immune cytopenia - A single-center case series  
Hao Gu (Beijing Children Hospital, Capital Medical University, China)



## DAILY PROGRAM Friday, March 15

13:50-15:05

### [OP06] Transplantation

Walker Hall 2

Chairs

Hyeon Jin Park (National Cancer Center, Korea)  
 Seong Kyu Park (SoonChunHyang University College of Medicine, Korea)

OP06-1

Predictive role of circulating immune cell subtypes early after allogeneic hematopoietic stem cell transplantation in patients with acute leukemia  
 Sung-Soo Park (The Catholic University of Korea Seoul St. Mary's Hospital, Korea)

OP06-3

The outcome of hematopoietic stem cell transplantation (HSCT) in pediatric patients with hemophagocytic lymphohistiocytosis (HLH) in Korea  
 Jun Eun Park (Ajou University School of Medicine, Korea)

OP06-4

HLA-haploidentical transplantation for thalassemia major using NF-08-TM haploid regimen  
 Xiaoling Zhang (Shenzhen Children's Hospital, China)

OP06-5

Comparison of haploidentical and umbilical cord blood transplantation using targeted busulfan in children and adolescent with hematologic malignancies  
 Kyung Taek Hong (Seoul National University Hospital, Korea)

OP06-6

Different circulating T cells are associated with early relapse after autologous HSCT in patients with multiple myeloma and classical hodgkin lymphoma  
 Egor Batorov (Research Institute of Fundamental and Clinical Immunology, Russia)

15:05-16:20

### [OP07] Acute Myeloid Leukemia/ Myelodysplastic Syndrome

Vista 1

Chairs

Eul-Ju Seo (University of Ulsan College of Medicine, Korea)  
 Keon Hee Yoo (Sungkyunkwan University School of Medicine, Korea)

OP07-1

Molecular abnormalities and their correlation with the prognosis of younger Indian patients with de novo myelodysplastic syndromes: AIIMS study  
 Rekha Chaubey (All India Institute of Medical Science, India)

OP07-2

Immunogenic cell death in acute myeloid leukemia: Synergy with venetoclax  
 Marc Diederich (Seoul National University, Korea)

OP07-3

Prediction of clinical outcomes with assessment of sarcopenia and adipopenia by computed tomography in adult patients with acute myeloid leukemia  
 Jongheon Jung (National Cancer Center, Korea)



## DAILY PROGRAM Friday, March 15

- OP07-4 Hyperleukocytosis at initial diagnosis of AML: Cytogenetic and molecular feature and prognostic implication in patients undergoing allogeneic-HSCT  
Silvia Park (The Catholic University of Korea Seoul St. Mary's Hospital, Korea)
- OP07-5 Germline predisposition gene mutations in pediatric acute myeloid leukemia  
Dajeong Jeong (Seoul National University College of Medicine, Korea)
- OP07-6 HSCT is an effective method to improve the prognosis of AML in children with c-Kit mutation analysis of 131 cases  
Li Gao (Children's Hospital of Soochow University, China)

15:05-16:20

### [OP08] Multiple Myeloma

Vista 2

- Chairs  
Hyo Jung Kim (Hallym University College of Medicine, Korea)  
Sukjoong Oh (Sungkyunkwan University School of Medicine, Korea)
- OP08-1 Next-generation sequencing study of V(D)J rearrangements on non-CR patients showing MRD negativity by next-generation flow  
Naery Yang (Seoul National University College of Medicine, Korea)
- OP08-2 Bone marrow tracer uptake pattern of PET/CT in multiple myeloma: Image interpretation criteria and prognostic value  
Jing Li (Zhongshan Hospital, Fudan University, China)
- OP08-3 Real world experience of carfilzomib, and dexamethasone versus pomalidomide-based combination chemotherapy after a 2nd-Line therapy in RRMM  
Ji Hyun Lee (Dong-A University Hospital, Korea)
- OP08-4 PD-1 blockade reinvigorates bone marrow CD8+ T cells from multiple myeloma patients in the presence of TGF-B inhibition  
Yoon Seok Choi (Chungnam National University College of Medicine, Korea)
- OP08-5 A multicenter, phase II study of response-adapted lenalidomide-based therapy for elderly patients with newly diagnosed multiple myeloma in Korea  
Kwai Han Yoo (Gachon University Gil Medical Center, Korea)
- OP08-6 Preclinical and clinical results of combination immunotherapy; Cancer vaccine with immune modulator, checkpoint inhibitors and epigenetic regulator  
Jooeun Bae (Harvard Medical School, USA)



## DAILY PROGRAM Friday, March 15

### 15:05-16:20 [OP09] Lymphoma/Histiocytosis Vista 3

Chairs Seong Hyun Jeong (Ajou University School of Medicine, Korea)  
 Hyoung Soo Choi (Seoul National University College of Medicine, Korea)

- OP09-1** Clinical features and treatment outcomes of hodgkin lymphoma: A retrospective review in a Malaysian tertiary centre  
 Yang Liang Boo (Hospital Sultanah Aminah, Malaysia)
- OP09-2** Primary central nervous system lymphoma : An institutional experience from India with uniform chemotherapy protocol  
 Pooja Gogia (Sarvodaya Hospital and Research Centre, India)
- OP09-3** Busulfan, etoposide, cytarabine and melphalan (BuEAM) as a conditioning regimen for autologous stem cell transplantation in patients with non-Hodgkin  
 Jae-Cheol Jo (Ulsan University Hospital, University of Ulsan College of Medicine, Korea)
- OP09-4** Predictive parameters for neutropenia after R-CHOP chemotherapy with prophylactic peg G-CSF in patients with diffuse large B-cell lymphoma  
 Do Young Kim (Pusan National University Hospital, Korea)
- OP09-5** Clinical characteristics of childhood hemophagocytic syndrome and analysis of underlying genetic deficiency  
 Huirong Mai (Shenzhen Children's Hospital, China)
- OP09-6** Identification of genetic mutation in pediatric patients with HLH : The study of Korean clinical research network for histiocytosis  
 Hyery Kim (University of Ulsan College of Medicine, Korea)

### 15:05-16:20 [OP10] Myeloproliferative Neoplasm/ Chronic Myeloid Leukemia Grand Hall

Chairs Ki-Seong Eom (College of Medicine, The Catholic University of Korea, Korea)  
 Min Kyoung Kim (Yeungnam University College of Medicine, Korea)

- OP10-1** An epidemiologic study for disease transformation and second cancers in Korean patients with myeloproliferative neoplasms  
 Junshik Hong (Seoul National University Hospital, Korea)
- OP10-2** The temporal sequence and the differences of somatic mutation acquisition determines clinical behaviors of JAK2 positive myeloproliferative neoplasms  
 Ja Min Byun (Seoul National University Boramae Medical Center, Korea)





## DAILY PROGRAM Friday, March 15

- OP10-3 Retrospective screening for myeloproliferative neoplasms in patients with cerebral infarctions as revealed using the revised 2016 WHO criteria  
Ik-Chan Song (Chungnam National University Hospital, Korea)
- OP10-4 Clinical characteristics and risk groups of chronic myeloid leukemia in children  
Quoc Thanh Nguyen (University of Medicine and Pharmacy, Vietnam)
- OP10-5 Expression and clinical significance of PTEN gene in chronic myeloid leukemia (CML) patient in Indian population  
Asgar Ali (All India Institute of Medical Sciences Patna, Bihar, India)
- OP10-6 Pilot prospective phase II study of Nilotinib combined by chemotherapy for myeloid blastic phase of chronic myeloid leukemia or bcr-Abl positive acute  
Hawk Kim (Gachon University Gil Medical Center, Korea)

15:05-16:20

### [OP11] Platelet/Hemostasis/Thrombosis

Walker Hall 1

- Chairs Sun-Young Kong (National Cancer Center, Korea)  
Soo-Mee Bang (Seoul National University College of Medicine, Korea)
- OP11-1 Single-center clinical data analysis of hereditary thrombocytopenia in children with chronic thrombocytopenia  
Jingyao Ma (Beijing Children's Hospital, Capital Medical University, National Center of Children's Health, China)
- OP11-2 Developing a diagnostic predictive model for immune thrombocytopenic purpura based on immature platelet fraction  
Min Ji Jeon (Korea University Guro Hospital, Korea)
- OP11-3 Insufficient receptor editing leads to B cell central intolerance and subsequent autoantibodies accumulation in primary immune thrombocytopenia  
Zi Sheng (Qilu Hospital, Shandong University, China)
- OP11-4 ROTEM parameters as predicting factors for bleeding in immune thrombocytopenic purpura  
Huu Tuan Nguyen (Cho Ray Hospital, Vietnam)
- OP11-5 Increased pathogenic Th17 cells in primary immune thrombocytopenia  
Ju Li (Qilu Hospital, Shandong University, China)
- OP11-6 Prediction value of risk assessment model deep vein thrombosis with padua prediction score  
Iswandi Darwis (Faculty of Medicine, Lampung University, Indonesia)



## DAILY PROGRAM Friday, March 15

15:05-16:20

### [OP12] Transplantation

Walker Hall 2

Chairs

Byung-Su Kim (Hallym University College of Medicine, Korea)  
Eun Sun Yoo (Ewha Womans University School of Medicine, Korea)

OP12-1

Cytoprotective autophagy in bone marrow endothelial cells enhance hematopoietic stem cells in poor graft function patients after allo-transplant  
Xie-Na Cao (Peking University People's Hospital, China)

OP12-2

Aberrant bone marrow M1/M2 macrophage polarization may contribute to prolonged isolated thrombocytopenia after allotransplantation  
Hong-Yan Zhao (Peking University, China)

OP12-3

G-CSF-induced macrophage polarization may prevent acute graft-versus-host disease after allogeneic hematopoietic stem cell transplant  
Qi Wen (Peking University People's Hospital, China)

OP12-4

Early transplantation-related mortality within 50 days after allogeneic hematopoietic stem cell transplantation in patients with acute leukemia  
Seom Gim Kong (Kosin University Gospel Hospital, Korea)

OP12-5

Incidence of anicteric veno-occlusive disease/sinusoidal obstruction syndrome and defibrotide efficacy following hematopoietic stem cell transplant  
Richard Martin (Jazz Pharmaceuticals, UK)

OP12-6

Phase I trial of repeated infusions of bone-marrow derived mesenchymal stem cells in steroidrefractory chronic graft-versus-host disease patients  
Nayoun Kim (The Catholic University of Korea Seoul St. Mary's Hospital, Korea)

16:20-16:35

Break

16:35-18:05

### [SS09] Future Information and Communications Technologies (ICT) based Medicine

Vista 1

Chairs

Dae-Young Kim (Philip Morris International, Korea)  
Ju Han Kim (Seoul National University College of Medicine, Korea)

SS09-1

Deep learning for CRISPR-Cpf1 research  
Sungroh Yoon (Seoul National University, College of Engineering, Korea)

SS09-2

Precision dinner: Genomes and health records  
Ju Han Kim (Seoul National University College of Medicine, Korea)



## DAILY PROGRAM Friday, March 15

- SS09-3 Connected health and wellness journey  
Jack Ahn (Samsung Electronics, USA)
- 16:35-18:05 **[SS10] Acute Myeloid Leukemia/  
Myelodysplastic Syndromes** Vista 2
- Chairs Je-Hwan Lee (University of Ulsan College of Medicine, Korea)  
Amer M. Zeidan (Yale University, USA)
- SS10-1 Genomics of core-binding factor AML  
Nicolas Duployez (Lille University Hospital, France)
- SS10-2 Precision medicine in AML in the era of novel agents  
Gail J. Roboz (Weill Medical College of Cornell University, USA)
- SS10-3 Incorporation of molecular assessments in risk stratification for myelodysplastic syndromes: Ready for prime time?  
Amer M. Zeidan (Yale University, USA)
- 16:35-18:05 **[SS11] Chronic Myeloid Leukemia** Vista 3
- Chairs Sang Kyun Sohn (Kyungpook National University School of Medicine, Korea)  
Simona Soverini (University of Bologna, Italy)
- SS11-1 Is chronic myeloid leukemia a single hit disorder?: Evidence from next-generation sequencing data  
Dennis Kim (University of Toronto, Princess Margaret Cancer Centre, Canada)
- SS11-2 NGS-based ABL1 kinase domain mutation detection  
Simona Soverini (University of Bologna, Italy)
- SS11-3 Precision medicine and immunity in CML  
Satu Mustjoki (University of Helsinki, Finland)
- 16:35-18:05 **[ES04] Coagulation: Global Assay of Hemostasis** Grand Hall
- Chairs Jaewoo Song (Yonsei University College of Medicine, Korea)  
Sung-Hyun Kim (Dong-A University College of Medicine, Korea)
- ES04-1 Early "Goal-directed Coagulation Therapy" approaches for the management of acute trauma-hemorrhage and trauma-induced coagulopathy  
Marc Guido Maegeler (Witten/Herdecke University, Germany)



## DAILY PROGRAM Friday, March 15

ES04-2 Clinical application of clot waveform analysis in hemophilia treatment  
Keiji Nogami (Nara Medical University, Japan)

ES04-3 Thrombin generation assay  
Bas de Laat (Synapse Research Institute, The Netherlands)

18:05-18:30 Break

18:30-20:00 **Gala Dinner**

Walkerhill Theater, B1



## DAILY PROGRAM **Saturday, March 16**

07:30-08:30	<b>Business Meeting</b>	Walker Hall 2
08:30-09:00	<b>Working Party Reports</b>	Vista 1
09:00-10:30	<b>[JS04] EHA-KSH Joint Symposium II - Chronic Myelogenous Leukemia</b>	Vista 1
	Chairs Chul Won Jung (Sungkyunkwan University School of Medicine, Korea) Susanne Sauße (University of Mannheim, Germany)	
JS04-1	Europe's experience of treatment-free remission in CML Susanne Sauße (University of Mannheim, Germany)	
JS04-2	Korea's experience of treatment-free remission in CML Hawk Kim (Gachon University College of Medicine, Korea)	
JS04-3	TKI-related cardiovascular toxicities in Europe Susanne Sauße (University of Mannheim, Germany)	
JS04-4	Long-term safety of tyrosine kinase inhibitors in chronic myeloid leukemia patients Jee Hyun Kong (Yonsei University College of Medicine, Korea)	
09:00-10:30	<b>[SS12] Childhood Acute Lymphoblastic Leukemia : Recent Updates of Prospective Trial of Pediatric ALL in Asia</b>	Vista 2
	Chairs Young Tak Lim (Pusan National University College of Medicine, Korea) Allen Yeoh Eng Juh (National University of Singapore, Singapore)	
SS12-1	Treatment of childhood ALL with IKZF1 deletion (Malaysia-Singapore ALL 2010 Study) Allen Yeoh Eng Juh (National University of Singapore, Singapore)	
SS12-2	Multicenter clinical trial of pediatric acute lymphoblastic leukemia in China: CCLG 2008 study Chi-kong Li (The Chinese University of Hong Kong, Hong Kong)	
SS12-3	Recent updates of prospective trials for ALL in Japan Yasuhiro Okamoto (Kagoshima University Graduate School of Medical and Dental Sciences, Japan)	



## DAILY PROGRAM **Saturday, March 16**

- 09:00-10:30** **[SS13] Lymphoma** Vista 3
- Chairs Seok-Goo Cho (College of Medicine, The Catholic University of Korea, Korea)  
 Javeed Iqbal (University of Nebraska Medical Center, USA)
- SS13-1** Pathogenesis of EBV-associated lymphoproliferative disorders  
 Hiroshi Kimura (Nagoya University Graduate School of Medicine, Japan)
- SS13-2** Molecular understanding of peripheral T-cell lymphoma  
 Javeed Iqbal (University of Nebraska Medical Center, USA)
- SS13-3** Clinical application of cell-free DNA in lymphoma  
 Seok Jin Kim (Sungkyunkwan University School of Medicine, Korea)
- 
- 09:00-10:30** **[SS14] Advances in Technology** Grand Hall
- Chairs Yonggoo Kim (College of Medicine, The Catholic University of Korea, Korea)  
 Christoph A. Merten (European Molecular Biology Laboratory (EMBL), Germany)
- SS14-1** Droplet microfluidics in antibody discovery, immune repertoire sequencing and personalized cancer therapy  
 Christoph A. Merten (European Molecular Biology Laboratory (EMBL), Germany)
- SS14-2** Applications of single-cell mass cytometry in hematologic malignancies  
 Gregory Behbehani (The Ohio State University– the James Cancer Center, USA)
- SS14-3** Prediction of acute myeloid leukemia risk in healthy individuals  
 Liran I. Shlush (Weizmann Institute of Science, Israel)
- 
- 10:30-10:45** Coffee Break
- 
- 10:45-11:45** **[PL03] Genomics in Lymphoid Malignancies** Vista 1-3
- Chair Hyeoung-Joon Kim (Chonnam National University Medical School, Korea)
- PL03-1** The new genomics of acute lymphoblastic leukemia  
 Charles G. Mullighan (St. Jude Children's Research Hospital, USA)
- PL03-2** Genetic basis and treatment of high-risk multiple myeloma  
 Gareth J Morgan (NYU Myeloma Centre, USA)
- 
- 11:45-12:30** **Award Ceremony & Closing** Vista 1-3

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**POSTERS**

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2019 KOREAN SOCIETY OF  
HEMATOLOGY INTERNATIONAL CONFERENCE  
& 60<sup>th</sup> ANNUAL MEETING



## POSTERS

- PP-001** Inhibition of Unc-51-Like kinase 1 (ULK1) preferentially induces apoptosis and autophagy in FLT3-ITD- mutated acute myeloid leukemia cells  
 Ji Eun Jang<sup>1</sup>, Ju-In Eom<sup>2</sup>, Hoi-Kyung Jeung<sup>2</sup>, Haerim Chung<sup>1</sup>, Yu Ri Kim<sup>1</sup>, June-Won Cheong<sup>1</sup>, Yoo Hong Min<sup>\*1</sup>  
<sup>1</sup> Department of Internal Medicine, Yonsei University College of Medicine, Korea  
<sup>2</sup> Avison Biomedical Research Center, Yonsei University College of Medicine, Korea
- PP-002** RNA CRISPR-Cas9 efficiently down regulates pCrKL signalling in K562 BCR-ABL cell line: Insights from in-vitro experiments with gene editing  
 Prateek Bhatia\*, Aditya Singh  
 Pediatric Hematology-Oncology Unit, Department of Pediatrics, Post Graduate Institute of Medical Education and Research, Chandigarh, India
- PP-003** HTLV-1 bZIP factor modulates p53 pathway by stabilizing PICT1 complex  
 Takayuki Ohshima\*, Rio Yamada, Risa Mukai, Kanata Yoshimoto, Yu Maruoka  
 Faculty of Pharmaceutical Sciences at Kagawa Campus, Tokushima Bunri University, Japan
- PP-004** Prognostic impact of interim and post-treatment positron emission tomography status in mantle cell lymphoma patients treated with frontline R-CHOP  
 Young-Woo Jeon<sup>1,2,3</sup>, Seugyun Yoon<sup>1</sup>, Ki-Joon Min<sup>1</sup>, Sung-Soo Park<sup>1</sup>, Silvia Park<sup>1</sup>, Jae-Ho Yoon<sup>1</sup>, Sung-Eun Lee<sup>1</sup>, Byung-Sik Cho<sup>1</sup>, Ki-Seong Eom<sup>1</sup>, Yoo-Jin Kim<sup>1</sup>, Hee-Je Kim<sup>1</sup>, Seok Lee<sup>1</sup>, Chang-Ki Min<sup>1</sup>, Jong Wook Lee<sup>1</sup>, Seok-Goo Cho<sup>\*1,2,3</sup>  
<sup>1</sup> Hematology, Catholic Hematology Hospital, Seoul St. Mary's Hospital, Korea  
<sup>2</sup> Hematology, Institute for Translational Research and Molecular Imaging, Catholic Institutes of Medical Science, Korea  
<sup>3</sup> Hematology, Laboratory of Immune Regulation, Convergent Research Consortium for Immunologic Disease, Korea
- PP-005** Genetic alterations and their clinical implications in langerhans cell histiocytosis  
 Kyung-Nam Koh<sup>1</sup>, Sung Min Chun<sup>2</sup>, Jong Jae Kim<sup>2</sup>, So Yoon Min<sup>1</sup>, Jin Kyung Suh<sup>1</sup>, Hyery Kim<sup>1</sup>, Ho Joon Im<sup>1</sup>, Jong Jin Seo<sup>\*1</sup>  
<sup>1</sup> Pediatrics, Asan Medical Center Children's Hospital, University of Ulsan College of Medicine, Korea  
<sup>2</sup> Pathology, Asan Medical Center, University of Ulsan College of Medicine, Korea
- PP-006** Predictive role of circulating microRNA-29c-3p expression for autologous stem cell transplantation in patients with newly diagnosed multiple myeloma  
 Sung-Soo Park<sup>1</sup>, Tae Woo Kim<sup>1</sup>, Seug Yun Yoon<sup>1</sup>, Gi June Min<sup>1</sup>, Silvia Park<sup>1</sup>, Young-Woo Jeon<sup>1,2</sup>, Seung-Ah Yahng<sup>3</sup>, Seung-Hwan Shin<sup>4</sup>, Sung-Eun Lee<sup>1,2</sup>, Jae-Ho Yoon<sup>1,2</sup>, Byung-Sik Cho<sup>1,2</sup>, Ki-Seong Eom<sup>1,2</sup>, Yoo-Jin Kim<sup>1,2</sup>, Seok Lee<sup>1,2</sup>, Hee-Je Kim<sup>1,2</sup>, Seok-Goo Cho<sup>1</sup>, Chang-Ki Min<sup>\*1,2</sup>  
<sup>1</sup> Department of Hematology, Seoul St. Mary's Hematology Hospital, College of Medicine, The Catholic University of Korea, Korea  
<sup>2</sup> Leukemia Research Institute, The Catholic University of Korea, Korea  
<sup>3</sup> Department of Hematology, Incheon St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea  
<sup>4</sup> Department of Hematology, Yeouido St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Korea





## POSTERS

- PP-007** Incidence, prevalence, mortality, and causes of death associated with Waldenström macroglobulinemia in Korea: A nationwide, population-based study  
Seri Jeong<sup>1</sup>, Seom Gim Kong<sup>2</sup>, Da Jung Kim<sup>3</sup>, Sangjin Lee<sup>4</sup>, Ho Sup Lee\*<sup>3</sup>  
<sup>1</sup> *Laboratory Medicine, Kosin University College of Medicine, Korea*  
<sup>2</sup> *Pediatrics, Kosin University College of Medicine, Korea*  
<sup>3</sup> *Hematology-Oncology, Kosin University College of Medicine, Korea*  
<sup>4</sup> *Statistics, Pusan National University, Korea*
- PP-008** Nationwide epidemiologic study for disease transformation and secondary cancers in Korean children and young adults with myeloproliferative neoplasms  
Hyoung Soo Choi<sup>1</sup>, Junshik Hong<sup>2</sup>, Ju Hyun Lee<sup>3</sup>, Soo Mee Bang\*<sup>3</sup>  
<sup>1</sup> *Pediatrics, Seoul National University Bundang Hospital, Korea*  
<sup>2</sup> *Internal Medicine, Seoul National University Hospital, Korea*  
<sup>3</sup> *Internal Medicine, Seoul National University Bundang Hospital, Korea*
- PP-009** Distribution chemotherapy response modulating genetic polymorphisms in Armenian population  
Yervand Hakobyan, Arsen Arakelyan\*  
*Adults' Department, Hematology Center after Prof. Yeolyan MH RA, Armenia*  
*Institute of Molecular Biology NAS RA, Armenia*
- PP-010** Twenty years' experiences of exchange transfusion in Korea  
Min-Sun Kim, Dae-Hyun Ko\*, Sang-Hyun Hwang, Heung-Bum Oh  
*Laboratory Medicine, University of Ulsan College of Medicine and Asan Medical Center, Korea*
- PP-011** Antileukemic activity of Thiazole-Pyrazole conjugates against human leukemic cell via inhibition of epidermal growth factor receptor (EGFR)  
Udaya Pratap Singh\*<sup>1</sup>, Hans Raj Bhat<sup>2</sup>  
<sup>1</sup> *Department of Pharmaceutical Sciences, Sam Higginbottom University of Agriculture, Technology & Sciences, India*  
<sup>2</sup> *Department of Pharmaceutical Sciences, Dibrugarh University, India*
- PP-012** 2-Phenylpyrimidine coumarin induces apoptosis via activation of caspase and inhibition of PI3K/Akt/mTOR-Kinase in human leukemic cell  
S. Singh  
*Department of Pharmaceutical Sciences, Sam Higginbottom University of Agriculture, Technology & Sciences, India*
- PP-013** Impact of the immuno-microenvironmental changes in AML by blocking both CXCR4 and dual immune checkpoints  
Hee-Sun Hwang<sup>1</sup>, A-Reum Han<sup>1</sup>, Ji Yoon Lee<sup>1</sup>, Hee-Je Kim\*<sup>1,2</sup>  
<sup>1</sup> *Leukemia Research Institute, The Catholic University of Korea Seoul St. Mary's Hospital, Korea*  
<sup>2</sup> *Seoul St. Mary's Hematology Hospital, College of Medicine, The Catholic University of Korea Seoul St. Mary's Hospital, Korea*



## POSTERS

- PP-014** A case of jumping translocation of 1q42 in acute myeloid leukemia patient  
Cheongang Park, Seon-Ho Mun, A-Jin Lee, Chang-Ho Jeon, Hun Suk Suh, Sang-Gyung Kim\*  
*Laboratory Medicine, Daegu Catholic University Medical Center, Korea*
- PP-015** Flow cytometric characteristics of distinct population in acute basophilic leukemia  
Seon-Ho Mun, Sang-Gyung Kim\*, A-Jin Lee, Hun Suk Suh, Chang-Ho Jeon, Cheongang Park  
*Laboratory Medicine, Daegu Catholic University Medical Center, Korea*
- PP-016** PTEN/AKT signaling mediates chemoresistance in refractory acute myeloid leukemia through enhanced glycolysis  
Min Jeong Ryu<sup>1,2</sup>, Jeongsu Han<sup>1,2,4</sup>, Soo Jeong Kim<sup>1,4</sup>, Min Joung Lee<sup>1,3,4</sup>, Xianshu Ju<sup>1,3,4</sup>, Yu Lim Lee<sup>1,3,4</sup>, Jeong Hwan Son<sup>3</sup>, Jianchen Cui<sup>1,3,4</sup>, Yunseon Jang<sup>1,3,4</sup>, Woosuk Chung<sup>5,6</sup>, Ik-Chan Song<sup>7</sup>, Gi Ryang Kweon<sup>1,2</sup>, Jun Young Heo<sup>\*1,3,4,5</sup>  
<sup>1</sup> Department of Biochemistry, Chungnam National University School of Medicine, Korea  
<sup>2</sup> Research Institute for Medical Science, Chungnam National University School of Medicine, Korea  
<sup>3</sup> Department of Medical Science, Chungnam National University School of Medicine, Korea  
<sup>4</sup> Infection Control Convergence Research Center, Chungnam National University School of Medicine, Korea  
<sup>5</sup> Brain Research Institute, Chungnam National University School of Medicine, Korea  
<sup>6</sup> Department of Anesthesiology and Pain Medicine, Chungnam National University Hospital, Korea  
<sup>7</sup> Department of Internal Medicine, Chungnam National University Hospital, Korea
- PP-017** A genome-wide CRISPR screen identifies PTEN critical for NL101 sensitivity in acute myeloid leukemia  
Liming Lin, Shu Li, Feiqiong Gao, Jiawei Zhang, Yang Xu\*  
*Department of Hematology, The Second Affiliated Hospital of Zhejiang University School of Medicine, China*
- PP-018** Efficacy and safety of lenalidomide as monotherapy and multitherapy in the management of acute myeloid leukemia: A meta-analysis  
Md Sarfaraj Hussain<sup>\*1</sup>, Abul Kalam Najmi<sup>2</sup>  
<sup>1</sup> Department of Pharmacognosy, Integral University, India  
<sup>2</sup> Department of Pharmacology, Jamia Hamdard, India
- PP-019** Decitabine efficacy and safety in the management of acute myeloid leukemia: A meta analysis of observational studies  
Md Salman Hussain<sup>\*1</sup>, Abul Kalam Najmi<sup>2</sup>  
<sup>1</sup> Department of Pharmaceutical Medicine, Jamia Hamdard, India  
<sup>2</sup> Department of Pharmacology, Jamia Hamdard, India
- PP-020** Acute promyelocytic leukemia - retrospective analysis from a tertiary care oncology centre from South India  
Perraju Bhaskar Bhuvan Lagudu<sup>1</sup>, Venkatraman Radhakrishnan<sup>\*1</sup>, Prashanth Ganesan<sup>2</sup>, Ganesan T S<sup>1</sup>, Manikandan Dhanushkodi<sup>1</sup>, Nikita Mehra<sup>1</sup>, Jayachandran Perumal<sup>1</sup>, Kripa Sankar<sup>1</sup>, Gnana Sagar Tenali<sup>1</sup>, Krishna Rathinam<sup>1</sup>  
<sup>1</sup> Medical Oncology, Cancer Institute (WIA), India  
<sup>2</sup> Medical Oncology, JIPMER, India



## POSTERS

- PP-021** Impact of treatment and transplantation on survival in a phase 3 study of CPX-351 vs 7+3 in older adults with newly diagnosed, high-risk/secondary AML  
Tara L. Lin<sup>1</sup>, Jorge E. Cortes<sup>2</sup>, Laura F. Newell<sup>3</sup>, Donna Hogge<sup>4</sup>, Richard M. Stone<sup>5</sup>, Jonathan E. E. Kolitz<sup>6</sup>, Gary J. Schiller<sup>7</sup>, Matthew J. Wieduwilt<sup>8</sup>, Daniel H. Ryan<sup>9</sup>, Richard Martin<sup>\*10</sup>, Robert J. Ryan<sup>11</sup>, Michael Chiarella<sup>11</sup>, Arthur C. Louie<sup>11</sup>  
<sup>1</sup>University of Kansas Medical Center, Kansas City, KS, USA  
<sup>2</sup>The University of Texas MD Anderson Cancer Center, Houston, TX, USA  
<sup>3</sup>Oregon Health & Science University, Portland, OR, USA  
<sup>4</sup>Leukemia/BMT Program of British Columbia, Vancouver, BC, Canada  
<sup>5</sup>Dana-Farber Cancer Institute, Boston, MA, USA  
<sup>6</sup>Monter Cancer Center, Northwell Health System, Lake Success, NY, USA  
<sup>7</sup>David Geffen School of Medicine/UCLA, Los Angeles, CA, USA  
<sup>8</sup>University of California – San Diego Moores Cancer Center, La Jolla, CA, USA  
<sup>9</sup>University of Rochester, Rochester, NY, Canada  
<sup>10</sup>Jazz Pharmaceuticals, Oxford, UK  
<sup>11</sup>Jazz Pharmaceuticals, Palo Alto, CA, USA
- PP-022** CPX-351 Vs 7+3 in older adults with newly diagnosed acute myeloid leukemia with myelodysplasia-related changes (AML-MRC) enrolled in a phase 3 study  
Daniel H. Ryan<sup>1</sup>, Jorge E. Cortes<sup>2</sup>, Laura F. Newell<sup>3</sup>, Robert K. Stuart<sup>4</sup>, Donna Hogge<sup>5</sup>, Jonathan E. Kolitz<sup>6</sup>, Gary J. Schiller<sup>7</sup>, Matthew J. Wieduwilt<sup>8</sup>, Richard Martin<sup>\*9</sup>, Robert J. Ryan<sup>10</sup>, Arthur C. Louie<sup>10</sup>  
<sup>1</sup>University of Rochester, Rochester, NY, USA  
<sup>2</sup>The University of Texas MD Anderson Cancer Center, Houston, TX, USA  
<sup>3</sup>Oregon Health & Science University, Portland, OR, USA  
<sup>4</sup>Hollings Cancer Center, Medical University of South Carolina, Charleston, SC, USA  
<sup>5</sup>Leukemia/BMT Program of British Columbia, Vancouver, BC, Canada  
<sup>6</sup>Monter Cancer Center, Northwell Health System, Lake Success, NY, USA  
<sup>7</sup>David Geffen School of Medicine/UCLA, Los Angeles, CA, USA  
<sup>8</sup>University of California – San Diego Moores Cancer Center, La Jolla, CA, USA  
<sup>9</sup>Jazz Pharmaceuticals, Oxford, USA  
<sup>10</sup>Jazz Pharmaceuticals, Palo Alto, CA, Canada
- PP-023** Genetic mutation profiling of acute myeloid leukemia using targeted next generation sequencing  
Ha Jin Lim<sup>1</sup>, Jun Hyung Lee<sup>1</sup>, Seung Yeob Lee<sup>1</sup>, Sejong Chun<sup>1</sup>, Seung-Jung Kee<sup>1</sup>, Soo-Hyun Kim<sup>1</sup>, Jong-Hee Shin<sup>1</sup>, Seo-Yeon Ahn<sup>2</sup>, Hyeoung-Joon Kim<sup>2</sup>, Myung-Geun Shin<sup>\*1,3</sup>  
<sup>1</sup>Department of Laboratory Medicine, Chonnam National University Medical School and Chonnam National University Hwasun Hospital, Hwasun, Korea  
<sup>2</sup>Department of Hematology-Oncology, Chonnam National University Medical School and Chonnam National University Hwasun Hospital, Hwasun, Korea  
<sup>3</sup>Brain Korea 21 Project, Center for Biomedical Human Resources, Chonnam National University, Gwangju, Korea



## POSTERS

- PP-024** Beyond hypomethylating agent (HMA) failure in elderly acute myeloid leukemia (AML) patients  
 Silvia Park<sup>1</sup>, Hee-Je Kim<sup>\*1</sup>, Dong-Wook Kim<sup>1</sup>, Yoo-Jin Kim<sup>1</sup>, Jong Wook Lee<sup>1</sup>, Seok Lee<sup>1</sup>, Ki-Seong Eom<sup>1</sup>, Seok-Goo Cho<sup>1</sup>, Chang-Ki Min<sup>1</sup>, Byung Sik Cho<sup>1</sup>, Jae-Ho Yoon<sup>1</sup>, Young-Woo Jeon<sup>1</sup>, Sung-Soo Park<sup>1</sup>, Gi June Min<sup>1</sup>, Seug Yun Yoon<sup>1</sup>, Seung-Hwan Shin<sup>2</sup>, Sung-Eun Lee<sup>1</sup>, Seung-Ah Yahng<sup>3</sup>  
<sup>1</sup> Department of Medicine, Seoul St. Mary's Hematology Hospital, The Catholic University of Korea, Seoul, Korea  
<sup>2</sup> Department of Medicine, Yeouido St. Mary's Hospital, Korea  
<sup>3</sup> Department of Medicine, Incheon St. Mary's Hospital, Korea
- PP-025** Dialkyl resorcinol stemphol disrupts calcium homeostasis triggering immunogenic necroptosis in acute myeloid leukemia  
 Jin-Young Lee, Marc Diederich\*  
 Department of Pharmacy, College of Pharmacy, Seoul National University, Korea
- PP-026** Evaluation of the ion torrent oncomine™ myeloid research assay for clinical applications in hematologic malignancy  
 Jae Won Yun<sup>1</sup>, Heyjin Kim<sup>1,2</sup>, Jung Yoon<sup>1</sup>, Jong Eun Park<sup>1</sup>, Hee-Jin Kim<sup>1</sup>, Sun-Hee Kim<sup>1</sup>, Jong Won Kim<sup>\*1</sup>  
<sup>1</sup> Department of Laboratory Medicine and Genetics, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea  
<sup>2</sup> Department of Laboratory Medicine, Myongji Hospital, Hanyang University Medical Center, Korea
- PP-027** Role of allogeneic hematopoietic cell transplantation in acute myeloid leukemia patients with NPM1 wt and FLT3-ITD negative group  
 Ju-Hyung Kim<sup>1,2</sup>, Jungmin Lee<sup>1,2</sup>, Ji-Yeon Ham<sup>2,3</sup>, Jang Soo Suh<sup>2,3</sup>, Joon-Ho Moon<sup>\*1,2</sup>, Sang Kyun Sohn<sup>1,2</sup>  
<sup>1</sup> Hematology/Oncology, Kyungpook National University Hospital, Korea  
<sup>2</sup> School of Medicine, Kyungpook National University, Korea  
<sup>3</sup> Laboratory Medicine, Kyungpook National University Hospital, Korea
- PP-028** Gene amplification and chromothripsis in acute myeloid leukemia with complex chromosomal abnormalities  
 Chang Ahn Seo<sup>1</sup>, Chan-Jeoung Park<sup>1</sup>, Seongsoo Jang<sup>1</sup>, Young-Uk Cho<sup>1</sup>, Jung-Hee Lee<sup>2</sup>, Je-Hwan Lee<sup>2</sup>, Kyoo-Hyung Lee<sup>2</sup>, Jin-Ok Lee<sup>3</sup>, Eul-Ju Seo<sup>\*1</sup>  
<sup>1</sup> Laboratory Medicine, University of Ulsan College of Medicine and Asan Medical Center, Korea  
<sup>2</sup> Internal Medicine, University of Ulsan College of Medicine and Asan Medical Center, Korea  
<sup>3</sup> Asan Institute for Life Sciences, University of Ulsan College of Medicine and Asan Medical Center, Korea
- PP-030** Clinical application of next-generation sequencing in diagnostic work-up of patients with acute myeloid leukemia and myelodysplastic syndrome  
 Min Young Lee<sup>1,2</sup>, Young-Uk Cho<sup>\*1</sup>, Chan-Jeoung Park<sup>1</sup>, Seongsoo Jang<sup>1</sup>, Ari Ahn<sup>1</sup>  
<sup>1</sup> Department of Laboratory Medicine, University of Ulsan College of Medicine and Asan Medical Center, Korea  
<sup>2</sup> Department of Laboratory Medicine, Kyung Hee University School of Medicine, Kyung Hee University Hospital at Gangdong, Korea



## POSTERS

- PP-031** Reclassifying acute myeloid leukemia according to the revised 2016 WHO classification in a large patient group  
Min-Young Lee, Young-Uk Cho\*, Seongsoo Jang, Eul-Ju Seo, Chan-Jeoung Park  
*Department of Laboratory Medicine, University of Ulsan, College of Medicine and Asan Medical Center, Korea*
- PP-032** Predictive role of geriatric assessment for early events in elderly AML fit for intensive chemotherapy; Interim data of a prospective cohort study  
Gi June Min<sup>1</sup>, Byung Sik Cho\*<sup>1</sup>, Seug Yun Yoon<sup>1</sup>, Silvia Park<sup>1</sup>, Seung-Ah Yahng<sup>2</sup>, Young-Woo Jeon<sup>1</sup>, Seung-Hwan Shin<sup>3</sup>, Jae-Ho Yoon<sup>1</sup>, Sung-Eun Lee<sup>1</sup>, Ki-Seong Eom<sup>1</sup>, Yoo-Jin Kim<sup>1</sup>, Seok Lee<sup>1</sup>, Heeje Kim<sup>1</sup>, Chang-Ki Min<sup>1</sup>, Seok-Goo Cho<sup>1</sup>, Dong-Wook Kim<sup>1</sup>, Jong Wook Lee<sup>1</sup>  
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<sup>2</sup> *Department of Hematology, Incheon St Mary's Hospital, Korea*  
<sup>3</sup> *Department of Hematology, Yeouido St. Mary's Hospital, Korea*
- PP-033** Stable disease has survival benefit after hypomethylating agent in myelodysplastic syndrome  
Hawk Kim\*<sup>1</sup>, Jae Sook Ahn<sup>2</sup>, Young-Rok Do<sup>3</sup>, Ho Jin Shin<sup>4</sup>, Won Sik Lee<sup>5</sup>, Sung-Nam Lim<sup>6</sup>, Joon Ho Moon<sup>7</sup>, Ho Sup Lee<sup>8</sup>, Sung Hwa Bae<sup>9</sup>, Yunsuk Choi<sup>10</sup>  
<sup>1</sup> *Division of Hematology, Gachon University Gil Medical Center, Gachon University College of Medicine, Korea*  
<sup>2</sup> *Division of Hematology-Oncology, Chonnam National University Hwasun Hospital, Korea*  
<sup>3</sup> *Division of Hemato-Oncology, Keimyung University Dongsan Medical Center, Korea*  
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<sup>8</sup> *Division of Hematology-Oncology, Kosin University Gosper Hospital, Korea*  
<sup>9</sup> *Division of Hematology/Oncology, Daegu Catholic University Medical Center, Korea*  
<sup>10</sup> *Division of Hematology and Cellular Therapy, Ulsan University Hospital, University of Ulsan College of Medicine, Korea*
- PP-034** Red blood cell and platelet indices: Could it predict survival of patients with myelodysplastic syndrome?  
Jieun Uhm\*<sup>1</sup>, Moo-Kon Song<sup>2</sup>, Young Woong Won<sup>3</sup>, Byeong Bae Park<sup>1</sup>, Jung Hye Choi<sup>3</sup>, Young Yil Lee<sup>1</sup>  
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<sup>2</sup> *Department of Hematology-Oncology, Hanyang University Hanmaeum Changwon Hospital, Hanyang University College of Medicine, Changwon, Korea*  
<sup>3</sup> *Division of Hematology and Oncology, Department of Internal Medicine, Hanyang University Guri Hospital, Hanyang University College of Medicine, Guri, Korea*
- PP-035** Monocyte subset for the screening of chronic myelomonocytic leukemia  
Sang Mee Hwang\*, Jun Park, Seung-Ah Jeon  
*Laboratory Medicine, Seoul National University Bundang Hospital, Korea*



## POSTERS

- PP-036** Polymorphism of TPMT and ITPA and their adverse effects of chemotherapy for acute lymphoblastic leukemia children in Bangladesh  
Sanjana Zaman\*<sup>1,2</sup> Hiroko Fukushima<sup>3</sup>, Ryoko Suzuki<sup>3</sup>, Shoji Yoshimatsu<sup>3,4</sup>, Mohammad Delwer Hossain Hawlader<sup>1</sup>, Nobutaka Kiyokawa<sup>5</sup>, Takashi Fukushima<sup>2</sup>  
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<sup>3</sup> Department of Child Health, Faculty of Medicine, University of Tsukuba, Japan  
<sup>4</sup> Department of Epidemiology and Clinical Research, Research Institute of Tuberculosis, Tokyo, Japan  
<sup>5</sup> Department of Pediatric Hematology and Oncology Research, National Research Institute for Child Health and Development, Tokyo, Japan
- PP-037** Customised superparamagnetic iron-oxide polymeric nanocarriers for targeted and controlled delivery of anti-tumor drug in acute lymphoblastic leukemia  
Anas Ahmad  
 Nano-Therapeutics, Institute of Nano Science and Technology (INST), India
- PP-038** Immuno phenotypes and the value of cluster of differentiation in acute leukemia at National Children's Hospital, Vietnam  
 Thi Ha Dang<sup>1</sup>, Thanh Binh Nguyen\*<sup>2</sup>, Thi Nghiem Luong<sup>1</sup>, Thi Duyen Nguyen<sup>1</sup>, Hong Ha Tran Thi<sup>1</sup>, Thi Thoa Ta<sup>1</sup>, Thu Giang Phan<sup>2</sup>  
<sup>1</sup> Hematology Laboratory Department, National Children's Hospital, Vietnam  
<sup>2</sup> Faculty of Immunology, Hanoi Medical University, Vietnam
- PP-039** Temporal trends in nutritional status of children with acute lymphoblastic leukemia during intensive phase of treatment  
Venkatraman Radhakrishnan  
 Medical Oncology, Cancer Institute, Chennai, India
- PP-040** Preliminary experience at a single centre in India with a collaborative multicentre risk stratified and response adapted protocol for treating pediatric ALL  
Venkatraman Radhakrishnan  
 Medical Oncology, Cancer Institute, Chennai, India
- PP-041** Homozygous TCF3 mutation is associated with severe hypogammaglobulinemia and acute lymphoblastic leukemia  
Ridha Barbouche\*<sup>1</sup>, Lamia Aissaoui<sup>2</sup>, Yu-Lung Lau<sup>3</sup>, Meriem Ben-Ali<sup>1</sup>  
<sup>1</sup> Immunology, Pasteur Institute of Tunis, Tunis, Tunisia  
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## POSTERS

- PP-042** A comparative study of palmar and digital dermatoglyphic patterns among leukemic patients & non-leukemic Individuals: A meta-analysis  
Ameet Kumar Jha\*<sup>1</sup>, Sujatha D'costa<sup>2</sup>  
<sup>1</sup> *Preclinical Sciences, Texila American University, Guyana*  
<sup>2</sup> *Anatomy, American University of Antigua, Antigua&Barbuda*
- PP-043** The effect of GATA3 rs3824662 gene polymorphism on children with pre-B-cell acute lymphoblastic leukemia treated by CCLG-ALL 2008 protocol  
Xinran Chu<sup>1</sup>, Dong Wu<sup>2</sup>, Jing Gao<sup>1</sup>, Shaoyan Hu\*<sup>1</sup>  
<sup>1</sup> *Department of Hematology and Oncology, Children's Hospital of Soochow University, China*  
<sup>2</sup> *Department of Pediatric, Qiyuan People's Hospital, China*
- PP-044** Comparison of parental perception on "Health Related Quality of Life (hrqol)" in children with acute lymphoblastic leukemia (on treatment) and normal  
Aisha Mahesar\*<sup>1</sup>, Mansoor Mazari, Usman Waheed  
*Department of Haematology/Oncology, Children's Hospital Lahore, Pakistan*
- PP-045** Detecting diplotype of NUDT15 variants and 6-Mercaptopurine sensitivity by target sequence cDNA of NUDT15  
Der-Shiun Wang<sup>1,2,3</sup>, Chih-Hsiang Yu<sup>3,4</sup>, Dong-Tsamn Lin<sup>3,6,7</sup>, Shiann-Tarng Jou<sup>3,6</sup>, Meng-Yao Lu<sup>3,6</sup>, Hsiu-Hao Chang<sup>3,6</sup>, Shu-Wha Lin<sup>4,7</sup>, Hsuan-Yu Chen<sup>5</sup>, Yung-Li Yang\*<sup>3,6,7</sup>  
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<sup>6</sup> *Department of Pediatrics, College of Medicine, National Taiwan University, Taiwan*  
<sup>7</sup> *Department of Laboratory Medicine, National Taiwan University Hospital, Taiwan*
- PP-046** Sociodemographic, clinical and laboratory profile of acute leukemia patient in Sanglah General Hospital, Bali  
Ni Putu Windi Sukma Putri\*<sup>1</sup>, Geitha Puspita Darmi, Ni Made Renny Anggreni Rena  
*Undergraduate Program, Faculty of Medicine, Udayana University, Indonesia*  
*Hematology and Medical Oncology Division, Internal Medicine Department, Faculty of Medicine, Udayana University, Indonesia*
- PP-047** Two cases of burkitt leukemia with IGH-MYC rearrangement associated with precursor B-cell phenotype  
Jung Yoon<sup>1</sup>, Jae Won Yun<sup>1</sup>, Keon Hee Yoo<sup>2</sup>, Chul Won Jung<sup>3</sup>, Sun-Hee Kim<sup>1</sup>, Hee-Jin Kim\*<sup>1</sup>  
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<sup>3</sup> *Internal Medicine, Sungkyunkwan University School of Medicine, Korea*



## POSTERS

- PP-048** Chymeric antigen receptor (CAR) T-cell immunotherapy : A new promising therapy for patients with relapsed B-cell acute lymphoblastic leukemia  
Indah Sagitaisna Putri\*, Bastomy Eka Rezkita, Fairuz Zahidah  
*Faculty of Medicine, Sebelas Maret University, Surakarta, Indonesia*
- PP-049** Anti-leukemic effect of ajwain oil against DMBA induced leukemic rat model: Possible mechanism of action  
Vikas Kumar\*<sup>1</sup>, Firoz Anwar<sup>2</sup>  
<sup>1</sup> *Pharmaceutical Sciences, SHUATS, India*  
<sup>2</sup> *Biochemistry, Kingabdulaziz University, Saudi Arabia*
- PP-050** Chemo-protective effect of lemon oil against the benzene induced leukemia via regulation of growth factors and inflammatory mediators  
Deeksha Chauhan\*<sup>1</sup>, Prakash Bhatt<sup>2</sup>, V Kumar<sup>3</sup>  
<sup>1</sup> *Applied, University of Allahabad, India*  
<sup>2</sup> *Pharmacy, Jamia Hamdard, India*  
<sup>3</sup> *Drug Discovery Laboratory, Shalom Institute of Health and Allied Sciences, India*
- PP-051** Detection of complex variant t(9;22) chromosome translocations in newly diagnosed cases of chronic myeloid leukaemia. A single institute experience  
Noorulain Fareed\*, Noor Muhammad Somroo, M. Saeed Quraishi, Sana Rafiq  
*Oncology/ Hematology, Dr. Ruth K. M. Pfau, Civil Hospital, Karachi, Pakistan*
- PP-052** Optimal time points for BCR-ABL1 tyrosine kinase domain mutation analysis based on European LeukemiaNet recommendations in chronic myeloid leukemia  
 Hea-Lyun Yoo<sup>1</sup>, Soo-Hyun Kim<sup>1</sup>, Soo-Young Choi<sup>1</sup>, Mi-Young Lee<sup>1</sup>, Hye-Young Song<sup>1</sup>, Ki-Hoon Kang<sup>1</sup>,  
 Kyoung-Mi Ki<sup>1</sup>, Ji-Hyung Suh<sup>1</sup>, Sun-Young Yang<sup>1</sup>, Dong-Wook Kim\*<sup>1,2</sup>  
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<sup>2</sup> *Department of Hematology, Seoul St. Mary's Hospital, The Catholic University of Korea, Korea*
- PP-053** A retrospective study of paediatric chronic myeloid leukemia from a tertiary cancer centre, India  
Siva Sree Kesana<sup>1</sup>, Venkatraman Radhakrishnan<sup>\*</sup><sup>1</sup>, Prasanth Ganesan<sup>2</sup>, Sagar Tenali<sup>1</sup>  
<sup>1</sup> *Medical Oncology, Cancer Institute (W.I.A), India*  
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- PP-054** Population pharmacokinetic and dose-response analyses of dasatinib to support dosage in Asian pediatric patients with chronic myeloid leukemia  
 Sai Bathena<sup>1</sup>, Amit Roy<sup>1</sup>, Takafumi Ide\*<sup>2</sup>  
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<sup>2</sup> *Clinical Pharmacology and Pharmacometrics, Bristol-Myers Squibb K.K., Japan*





## POSTERS

- PP-055** A study of treatment-free remission evaluation in real-world chronic myeloid leukemia; Estimated cost-effectiveness analysis (ASTER-C)  
Bora Nam<sup>1</sup>, Soktae Kim<sup>1</sup>, Jae Hoon Lee<sup>2</sup>, Kwai Han Yoo<sup>2</sup>, Hawk Kim\*<sup>2</sup>  
<sup>1</sup> Department of International Trade, Dongkuk University, Korea  
<sup>2</sup> Division of Hematology, Gachon University Gil Medical Center, Gachon University College of Medicine, Korea
- PP-056** Highly sensitive detection of BCR-ABL in clinical samples by QXDx BCR-ABL %IS digital droplet PCR  
Hee-Jung Chung, Mina Hur\*, Hannah Kim, Sumi Yoon, Hee-Won Moon, Yeo-Min Yun  
Laboratory Medicine, Konkuk University Medical Center, Korea
- PP-057** Survival outcomes with addition of methotrexate and cytarabine onto standard treatment for diffused large B-cell lymphoma (DLBCL): 3-Year follow-up  
Chee Chean Dang\*<sup>1</sup>, Yong Khee Guan<sup>2</sup>, Kuo Zang Wong<sup>1</sup>, Hsieng Yew Kuan<sup>1</sup>, Mohd Firdaus Lazim<sup>1</sup>, Chiet Yin Yau<sup>1</sup>  
<sup>1</sup> Pharmacy (Hematology), Hospital Melaka, Malaysia  
<sup>2</sup> Medicine (Hematology), Pantai Hospital Ayer Keroh, Malaysia
- PP-058** High serum glucose during chemotherapy is associated with inferior survival outcome in patients with non-Hodgkin lymphoma  
Jihyun Kwon\*, Eu Jeong Ku  
Internal Medicine, Chunbuk National University Hospital, Korea
- PP-059** Follicular lymphoma with leukemic presentation  
Shih-Sung Chuang\*<sup>1</sup>, Shang-Wen Chen<sup>2</sup>, Yen-Chuan Hsieh<sup>1</sup>, Chun-Chi Kuo<sup>1</sup>, Hung-Chang Wu<sup>3</sup>, Yin-Hsun Feng<sup>3</sup>  
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<sup>3</sup> Hemato-Oncology, Chi-Mei Medical Center, Taiwan
- PP-060** Milk-alkali syndrome with pulmonary calcification in diffused large B cell lymphoma: A case report  
Lien Nhi Tran Thi  
Oncology, Vietnam National Children's Hospital, Vietnam
- PP-061** Asian variant of intravascular large B-cell lymphoma  
Sang Eun Yoon\*<sup>1</sup>, Junhun Cho<sup>2</sup>, Duck Cho<sup>3</sup>, Hee-Jin Kim<sup>3</sup>, Sun-Hee Kim<sup>3</sup>, Young Hyeh Ko<sup>2</sup>, Won Seog Kim<sup>1</sup>, And Seok Jin Kim<sup>1,4</sup>  
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<sup>4</sup> Department of Health Sciences and Technology, Samsung Advanced Institute for Health Sciences and Technology, Sungkyunkwan University, Seoul, Korea



## POSTERS

- PP-062** Clinical impact of prognostic nutritional index in diffuse large B cell lymphoma  
Gyeong-Won Lee<sup>\*1</sup>, Se-Il Go<sup>2</sup>, Sungwoo Park<sup>1</sup>, Myoung Hee Kang<sup>2</sup>, Hoon-Gu Kim<sup>2</sup>  
<sup>1</sup> Internal Medicine, Gyeongsang National University Hospital, Gyeongsang National University College of Medicine, Korea  
<sup>2</sup> Internal Medicine, Gyeongsang National University Changwon Hospital, Gyeongsang National University College of Medicine, Korea
- PP-063** Clinical characteristics and outcome of acquired immune deficiency syndrome (AIDS) related lymphomas (ARL) in hospital Ampang  
Christopher, Chin Keong Liam<sup>\*1</sup>, Sen Mui Tan<sup>1</sup>, Jerome, Tsen Chuen Tan<sup>1</sup>, Tee Chuan Ong<sup>1</sup>, Jameela Sathar<sup>1</sup>, Suraya Hanim Abdullah Hashim<sup>2</sup>, Yi Lin Lee<sup>3</sup>, Kian Boon Law<sup>3</sup>  
<sup>1</sup> Hematology, Hospital Ampang, Malaysia  
<sup>2</sup> Infectious Disease, Hospital Ampang, Malaysia  
<sup>3</sup> Clinical Research Ward, Hospital Ampang, Malaysia
- PP-064** Necropotosis was restored in chronic lymphocytic leukemia by inhibiting LTB-NF-KB-LEF1 pathway  
Yifeng Sun, Jing Li, Zhao Xu, Jiadai Xu, Peng Liu<sup>\*</sup>  
 Department of Hematology, Zhongshan Hospital, Fudan University, China
- PP-065** Prevalence and immunophenotypic characteristics of monoclonal B-cell lymphocytosis in Korea  
In Young Yoo<sup>1</sup>, Sung Hoan Bang<sup>1</sup>, Seok Jin Kim<sup>2</sup>, Hee Jin Kim<sup>1</sup>, Sun-Hee Kim<sup>1</sup>, Duck Cho<sup>\*1</sup>  
<sup>1</sup> Department of Laboratory Medicine and Genetics, Samsung Medical Center, Korea  
<sup>2</sup> Division of Hematology and Oncology, Department of Medicine, Samsung Medical Center, Korea
- PP-066** Event free survival at 24 months is a surrogate end point for subsequent overall survival in peripheral T-cell lymphoma  
Yu Ri Kim<sup>1</sup>, Soo-Jeong Kim<sup>2</sup>, June-Won Cheong<sup>2</sup>, Haerim Chung<sup>2</sup>, Ji Eun Jang<sup>2</sup>, Yundeok Kim<sup>1</sup>, Yoo Hong Min<sup>2</sup>, Jin Seok Kim<sup>\*2</sup>  
<sup>1</sup> Internal Medicine, Yonsei University College of Medicine, Gangnam Severance Hospital, Korea  
<sup>2</sup> Internal Medicine, Yonsei University College of Medicine, Severance Hospital, Korea
- PP-067** Prurigo nodularis and hodgkin's Lymphoma – A rare association  
Zher Lin Go<sup>\*1</sup>, Qin Jian Low<sup>2</sup>, Nurul Aisyah Abd Rahman<sup>1</sup>, Ling Fong Ng<sup>1</sup>, Ngee Siang Lau<sup>3</sup>  
<sup>1</sup> Department of Internal Medicine, Hospital Melaka, Malacca, Malaysia  
<sup>2</sup> Department of Internal Medicine, Hospital Sultanah Nora Ismail Batu Pahat, Johore, Malaysia  
<sup>3</sup> Department of Hematology, Hospital Ampang, Selangor, Malaysia
- PP-068** The protection effect of moringa extract from lymphoma cell metastasis through decreasing ICAM-1 in Internal carotid artery of metabolic syndrome rats  
Mohamad Arif Fikri<sup>\*</sup>, Bastomy Eka Rezkita, Rani Luthfiany Putri, Dyah Ratna  
 Pathology Anatomy, Sebelas Maret University, Indonesia



## POSTERS

**PP-069** Ibrutinib vs real-world (RW) treatment outcomes in chronic lymphocytic leukemia by Del11q status: Adjusted comparison of clinical trial and RW data

Gilles Salles\*<sup>1</sup>, Evelyne Callet-Bauchu<sup>2</sup>, Hervé Besson<sup>3</sup>, Margaret Doyle<sup>4</sup>, Jamie Garside<sup>5</sup>, Martin Spacek<sup>6</sup>, Michael Doubek<sup>7,8</sup>

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<sup>5</sup> HEMAR, Janssen EMEA, United Kingdom

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<sup>7</sup> Department of Internal Medicine – Hematology and Oncology, University Hospital and Faculty of Medicine, France

<sup>8</sup> CEITEC, Masaryk University, Belgium

**PP-070** A case of EBV-Positive NK/T cell lymphoma progressed from severe mosquito bite allergy  
Seunghoo Lee<sup>1</sup>, Chan-Jeoung Park\*<sup>1</sup>, Young-Uk Cho<sup>1</sup>, Sang-Hyun Hwang<sup>1</sup>, Seongsoo Jang<sup>1</sup>, Jooryung Huh<sup>2</sup>, Hyery Kim<sup>3</sup>

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

**PP-071** Efficacy of Ibrutinib-Rituximab versus Real-World (RW) regimens for waldenström's macroglobulinemia: Adjusted comparison of clinical trial and RW data

Gilles Salles\*<sup>1</sup>, Lionel Karlin<sup>1</sup>, Hervé Besson<sup>2</sup>, Christoph Tappich<sup>3</sup>, Jamie Garside<sup>4</sup>

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<sup>3</sup> Janssen-Cilag GmbH, Neuss, Germany

<sup>4</sup> Janssen EMEA HEMAR, High Wycombe, UK

**PP-072** Treatment outcomes of adult primary mediastinal B-cell lymphoma (PMBCL) treated with dose-adjusted R-EPOCH as frontline therapy in tertiary hospital

Chee Chean Dang\*<sup>1</sup>, Zher Lin Go<sup>2</sup>, Ngee Siang Lau<sup>2</sup>

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<sup>2</sup> Department of Medicine (Haematology), Hospital Melaka, Malaysia

**PP-073** Triple improvement in the clinical, laboratory, and radiologic manifestations of multicentric castleman disease after treatment with siltuximab

Gi June Min<sup>1</sup>, Seok-Goo Cho\*<sup>1</sup>, Seug Yun Yoon<sup>1</sup>, Silvia Park<sup>1</sup>, Seung-Ah Yahng<sup>2</sup>, Seung-Hwan Shin<sup>3</sup>, Jae-Ho Yoon<sup>1</sup>, Sung-Eun Lee<sup>1</sup>, Byung Sik Cho<sup>1</sup>, Ki-Seong Eom<sup>1</sup>, Yoo-Jin Kim<sup>1</sup>, Seok Lee<sup>1</sup>, Hee-Je Kim<sup>1</sup>, Chang-Ki Min<sup>1</sup>, Dong-Wook Kim<sup>1</sup>, Jong Wook Lee<sup>1</sup>

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## POSTERS

- PP-074** A 15-year-old male diagnosed with mantle cell lymphoma, presenting with mediastinal mass  
Jae Min Lee\*<sup>1</sup>, Mi Jin Gu<sup>2</sup>  
<sup>1</sup> Department of Pediatrics, College of Medicine, Yeungnam University, Korea  
<sup>2</sup> Department of Pathology, College of Medicine, Yeungnam University, Korea
- PP-075** Treatment abandonment amongst patients with hematological malignancy in TYA age group  
Taha Sethjiwala\*, Venkatraman Radhakrishnan  
 Department of Medical Oncology, Cancer Institute Adyar, Chennai, India
- PP-076** Effect of the dose of rituximab on survival outcomes of the DLBCL treated with rituximab-CHOP; Based on the national health information database  
Jung Yeon Lee<sup>1</sup>, Hye Sim Kim<sup>2</sup>, Shin Young Hyun<sup>1</sup>, Seung Taek Lim<sup>1</sup>, Kwang Yong Shim<sup>1</sup>, Jong In Lee<sup>1</sup>, Jee Hyun Kong\*<sup>1</sup>  
<sup>1</sup> Internal Medicine, Wonju Severance Christian Hospital, Yonsei University College of Medicine, Korea  
<sup>2</sup> Center of Biomedical Data Science, Wonju Severance Christian Hospital, Yonsei University College of Medicine, Korea
- PP-077** Clinical impact of ibrutinib in refractory or relapsed mantle cell lymphoma: Single-Center experience in clinical practice  
Young-Woo Jeon<sup>1,2,3</sup>, Seugyun Yoon<sup>1</sup>, Ki-Joon Min<sup>1</sup>, Sung-Soo Park<sup>1</sup>, Silvia Park<sup>1</sup>, Jae-Ho Yoon<sup>1</sup>, Sung-Eun Lee<sup>1</sup>, Byung-Sik Cho<sup>1</sup>, Ki-Seong Eom<sup>1</sup>, Yoo-Jin Kim<sup>1</sup>, Hee-Je Kim<sup>1</sup>, Seok Lee<sup>1</sup>, Chang-Ki Min<sup>1</sup>, Jong Wook Lee<sup>1</sup>, Seok-Goo Cho\*<sup>1,2,3</sup>  
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<sup>3</sup> Hematology, Laboratory of Immune Regulation, Convergent Research Consortium for Immunologic Disease, Korea
- PP-078** Results and prospects for the treatment of anaplastic cell lymphoma in adult patients  
Saidrakhim Nodirovich  
 Hematology, Tashkent Medical Academy, Uzbekistan
- PP-079** Genetic and non-genetic risk factors of bleomycin-Induced pulmonary toxicity in south indian patients with hodgkin lymphoma  
Dimpal Thakkar\*<sup>1</sup>, Sandhiya Selvarajan<sup>2</sup>, Biswajit Dubashi<sup>3</sup>  
<sup>1</sup> Pharmacology, JIPMER, India  
<sup>2</sup> Clinical Pharmacology, JIPMER, India  
<sup>3</sup> Medical Oncology, JIPMER, India
- PP-080** A rare case of high grade nodal marginal zone B cell lymphoma with diffuse bone marrow involvement and igm-type monoclonal paraproteinemia  
Sang Hyuk Park<sup>1</sup>, Jaewook Kim<sup>1</sup>, Joseph Jeong<sup>1</sup>, Seon-Ho Lee<sup>1</sup>, Hee Jeong Cha<sup>2</sup>, Seol Hoon Park<sup>3</sup>, Yunsuk Choi<sup>4</sup>, Jae-Cheol Jo<sup>4</sup>, Ji-Hun Lim\*<sup>1</sup>  
<sup>1</sup> Department of Laboratory Medicine, University of Ulsan College of Medicine, Ulsan University Hospital, Ulsan, Korea  
<sup>2</sup> Department of Pathology, University of Ulsan College of Medicine, Ulsan University Hospital, Ulsan, Korea  
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## POSTERS

**PP-081** 9-year-old boy diagnosed with X-linked lymphoproliferative disease type 1 - Case report

Jae Min Lee\*<sup>1</sup>, Hyery Kim<sup>2</sup>, Ja Young Seo<sup>3</sup>, Jong Jin Seo<sup>2</sup>

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**PP-082** Multi-gene sequencing of hemophagocytic lymphohistiocytosis in pediatric patients: Gene profiles and its correlation with bone marrow findings

Sohee Ryu<sup>1</sup>, Sung-Min Kim<sup>2</sup>, Naery Yang<sup>1</sup>, Dajeong Jung<sup>1</sup>, Jiwon Yun<sup>1</sup>, Kyumin Lim<sup>2</sup>, Sang Mee Hwang<sup>3</sup>, Hyoung Jin Kang<sup>4</sup>, Dong Soon Lee\*<sup>1,2</sup>

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**PP-083** Isolated splenic Rosai-Dorfman disease presenting as a fever of unknown origin in a 10-months-old child

Khilola Rustamova, Kyung Mi Park, Young Tak Lim, Su Eun Park, Eu Jeen Yang\*

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**PP-084** Multiple myeloma in teenage patient: A case report

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<sup>2</sup> Hematology, Pham Ngoc Thach University of Medicine, Vietnam

**PP-085** Multiple myeloma patients on novel agents: Effect of pneumococcal vaccination on incidence of infectious complications

Igor Stoma\*<sup>1,2</sup>, Igor Iskrov<sup>1</sup>, Irina Lendina<sup>1</sup>, Anatoly Uss<sup>1</sup>, Igor Karpov<sup>2</sup>, Veronika Cherniak<sup>1</sup>, Olga Gerasimovich<sup>1</sup>, Anna Trubkina<sup>1</sup>

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<sup>2</sup> Department of Infectious Diseases, Belarusian State Medical University, Belarus

**PP-086** Detection of chromosome 13 (13q14) deletion among Sudanese patients with multiple myeloma using a molecular genetics fluorescent in situ hybridization

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**PP-087** MGUS predicts worse prognosis in patients with coronary artery disease

Zhao Xu, Peng Liu\*

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## POSTERS

- PP-088** The value of abdominal fat aspiration and labial salivary gland biopsy in diagnosing immunoglobulin light chain amyloidosis  
 Tianhong Xu<sup>1</sup>, Peng Liu<sup>\*1</sup>, Zheng Wei<sup>1</sup>, Chen Chen<sup>1</sup>, Yuqing Shen<sup>2</sup>, Xiaowen Ge<sup>3</sup>  
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<sup>2</sup> Department of Stomatology, Zhongshan Hospital, Fudan University, China  
<sup>3</sup> Department of Pathology, Zhongshan Hospital, Fudan University, China
- PP-089** Megakaryocytic expression of GATA-1, IL-6, and IL-8 in plasma cell neoplasm with dysmegakaryopoiesis  
 Hyunji Kim, Hye Ryou Kim\*  
 Department of Laboratory Medicine, Chung-Ang University Hospital, Chung-Ang University College of Medicine, Korea
- PP-090** Bortezomib-based first line treatment for AL amyloidosis patients who are not candidate for stem cell transplantation  
 Joon Young Hur<sup>1</sup>, Kang Kook Lee<sup>1</sup>, Sang Eun Yoon<sup>1</sup>, Sehhoon Park<sup>1</sup>, Jangho Cho<sup>1</sup>, Youjin Kim<sup>1</sup>, Gayeon Lee<sup>2</sup>, Jinoh Choi<sup>2</sup>, Eunseok Jeon<sup>2</sup>, Ju Hong Min<sup>3</sup>, Byungjun Kim<sup>3</sup>, Jung Sun Kim<sup>4</sup>, Jung Eun Lee<sup>5</sup>, Joon Young Choi<sup>6</sup>, Seok Jin Kim<sup>1</sup>, Jun Ho Jang<sup>1</sup>, Won-Seog Kim<sup>1</sup>, Chul Won Jung<sup>1</sup>, Kihyun Kim\*<sup>1</sup>  
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<sup>4</sup> Department of Pathology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea  
<sup>5</sup> Division of Nephrology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea  
<sup>6</sup> Department of Nuclear Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea
- PP-091** Health-related quality of life in relapsed/refractory multiple myeloma: Systematic review of randomized control trials  
 Ambrish Singh\*<sup>1</sup>, Anirudh Kotlo<sup>2</sup>  
<sup>1</sup> Independent Researcher, Delhi, India  
<sup>2</sup> Global Health, Fairleigh Dickinson University, Vancouver, British Columbia, Canada
- PP-092** Prognostic impact of frailty in transplant-ineligible multiple myeloma patients treated with first-Line bortezomib-based chemotherapy  
 Ji Hyun Lee<sup>1</sup>, Sung-Hyun Kim<sup>1</sup>, Seok Jae Huh<sup>1</sup>, Jae-Cheol Jo<sup>2</sup>, Ho-Jin Shin<sup>3</sup>, Won-Sik Lee<sup>4</sup>, Yoo Jin Lee<sup>5</sup>, Ho Sup Lee\*<sup>6</sup>  
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<sup>6</sup> Department of Hematology and Oncology, Kosin University Gospel Hospital, Korea



## POSTERS

- PP-093** Comparison of conventional cytogenetic analysis and fluorescence in situ hybridization in survival of newly diagnosed myeloma patients  
In Hwa Jeong, Gyu Dae Ahn, Hyeon Ho Lim, Kwang Sook Woo, Kyung Hee Kim, Jeong Man Kim, Jin Yeong Han\*  
*Laboratory Medicine, Dong-A University Hospital, Korea*
- PP-094** Orthotopic heart transplant facilitated autologous hematopoietic stem cell transplantation for light-chain amyloidosis  
Rt Kamble\*<sup>1</sup>, G Obi<sup>1</sup>, A Scholoff<sup>1</sup>, L Rice<sup>2</sup>, A Bhimraj<sup>3</sup>, Jd Estep<sup>3</sup>, B Trachenberg<sup>3</sup>, G Carrum<sup>1</sup>  
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<sup>2</sup> Hematology, Houston Methodist Hospital, USA  
<sup>3</sup> Cardiology, Houston Methodist Hospital, USA
- PP-095** Changes in blood viscosity and yield stress before and after phlebotomy  
Mikyung Park, Mina Hur\*, Sumi Yoon, Hanah Kim, Hee-Jung Chung, Hee-Won Moon, Yeo-Min Yun  
*Department of Laboratory Medicine, Konkuk University School of Medicine, Korea*
- PP-096** Do we need the revised 2016 WHO polycythemia vera diagnostic criteria for better diagnosis of posttransplantation erythrocytosis?  
Myung-Won Lee<sup>1</sup>, Hyewon Ryu<sup>1</sup>, Yoon-Seok Choi<sup>1</sup>, Ik-Chan Song<sup>1</sup>, Hyo-Jin Lee<sup>1</sup>, Hwan-Jung Yun<sup>1</sup>, Deog-Yeon Jo\*<sup>1</sup>, Dae Eun Choi<sup>2</sup>, Ki-Ryang Na<sup>2</sup>, Kang Wook Lee<sup>2</sup>  
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<sup>2</sup> Division of Nephrology, Department of Internal Medicine, College of Medicine, Chungnam National University, Korea
- PP-097** Characteristics and survival of atypical chronic myeloid leukemia; Based on national health information database  
Jee Hyun Kong\*<sup>1</sup>, Tae-Hwa Go<sup>2</sup>, Jung Yeon Lee<sup>1</sup>, Shin Young Hyun<sup>1</sup>, Seung Taek Lim<sup>1</sup>, Kwang Yong Shim<sup>1</sup>, Jong In Lee<sup>1</sup>  
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<sup>2</sup> Center of Biomedical Data Science, Wonju Severance Christian Hospital, Yonsei University College of Medicine, Korea
- PP-098** Clinical application of next-generation sequencing in myeloproliferative neoplasms: Genetic profiles and prognostic significance  
Jong-Mi Lee<sup>1,2</sup>, Eunhee Han<sup>1,2</sup>, Kyungja Han<sup>1,2</sup>, Ki-Seong Eom<sup>3</sup>, Yonggoo Kim<sup>1,2</sup>, Myungshin Kim\*<sup>1,2</sup>  
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<sup>2</sup> Catholic Genetic Laboratory Center, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea  
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## POSTERS

**PP-099** Clinical effect of haploidentical hematopoietic stem cell transplantation combined with post-transplant cyclophosphamide for children with severe aplastic anemia

Yan Yue, Xiaodong Shi\*

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**PP-100** The outcome of immunotherapy by antithymocyte globulin and cyclosporine a for acquired aplastic anaemia during 10 years in Vietnam

Thi Mai Huong Nguyen<sup>1</sup>, Thi Huong Mai Nguyen<sup>2</sup>, Ba Truc Duong<sup>1</sup>, Hoang Nam Nguyen\*<sup>1</sup>

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<sup>2</sup> *Faculty of Pediatric, Hanoi Medical University, Vietnam*

**PP-101** The incidence of severe chronic neutropenia in Korea and related clinical manifestations: A national health insurance database study

Nuri Lee\*<sup>1</sup>, Bong Chul Lee<sup>2</sup>

<sup>1</sup> *Department of Laboratory Medicine, Hangeang Sacred Heart Hospital, Hallym University College of Medicine, Seoul, Korea*

<sup>2</sup> *Department of Psychiatry, Hangeang Sacred Heart Hospital, Hallym University College of Medicine, Seoul, Korea*

**PP-102** CD3/CD45RA depleted haploidentical transplant for SCID: First case in Vietnam

Le Nguyen-Ngoc-Quynh

*Immunology-Allergy-Rheumatology Department, National's Children Hospital, Vietnam*

**PP-103** Label-free and high-sensitive detection of pseudomonas aeruginosa from bacteremia using a surface plasmon resonance DNA-based biosensor

Zhenbo Xu<sup>1,2</sup>

<sup>1</sup> *School of Food Science and Engineering, South China University of Technology, China*

<sup>2</sup> *Department of Microbial Pathogenesis, University of Maryland, USA*

**PP-104** Detection of staphylococcal bacteremia virulence factors using novel isothermal amplification with SPR biosensor methodology

Junyan Liu<sup>1,2</sup>

<sup>1</sup> *South China University of Technology, School of Food Science and Engineering, China*

<sup>2</sup> *College of Pharmacy, University of Tennessee Health Science Center, USA*

**PP-105** Diagnostics under sky: Mitigation of gap in global health point-of-care diagnosis in extremely poor hematology laboratory linking frugal science

Anil Gautam\*<sup>1</sup>, Bijay Subedi<sup>2</sup>, Niranjana Koirala<sup>1</sup>, Avinash Kumar Gupta<sup>3</sup>

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<sup>2</sup> *Department of Medical Laboratory Technology, Pokhara University, Nepal*

<sup>3</sup> *Medicine and Surgery, Universal College of Medical Science, India*





## POSTERS

- PP-106** Acute kidney disease as a 90-day mortality predictor in hemato-oncologic patients with persistent acute kidney injury and vancomycin treatment  
Ahram Yi<sup>1</sup>, Mina Hur\*<sup>1</sup>, Hyeong Nyeon Kim<sup>2</sup>, Hanah Kim<sup>1</sup>, Hee-Jung Chung<sup>1</sup>, Hee-Won Moon<sup>1</sup>, Yeo-Min Yun<sup>1</sup>, Sung-Yong Kim<sup>3</sup>, Mark Hong Lee<sup>3</sup>  
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<sup>2</sup> Department of Laboratory Medicine, Samkwang Medical Laboratories, Korea  
<sup>3</sup> Department of Internal Medicine, Konkuk University School of Medicine, Korea
- PP-107** Pattern of hematological disorders on bone marrow examination: A tertiary care hospital experience  
Noorulain Fareed\*, Ghulam Fatima, M. Saeed Quraishy, Tariq Mehmood  
Department of Haematology, CHK-Central Laboratory, Dr. Ruth K. M. Pfau, Civil Hospital, Karachi, Pakistan
- PP-108** Flow cytometry quantitation of acridine orange-stained malaria parasites  
Attakorn Palasuwan  
Clinical Microscopy, Faculty of Allied Health Sciences, Chulalongkorn University, Thailand
- PP-109** Platelet counting in thrombocytopenic samples using mindray BC-6800 plus  
Sumi Yoon, Hanah Kim, Mina Hur\*, Hee-Jung Chung, Hee-Won Moon, Yeo-Min Yun  
Department of Laboratory Medicine, Konkuk University School of Medicine, Seoul, Korea
- PP-110** Evaluation of neutrophil gelatinase-associated lipocalin (NGAL), compared with IL-1 $\beta$ , IL-6, TNF-A and CRP in hematologic malignancy  
Jung Yoon<sup>1</sup>, Ji-Youn Lim<sup>2</sup>, Eun-Ah Chang<sup>1</sup>, Deok-Su Kim<sup>1</sup>, Shin-Jong Kim<sup>1</sup>, Myung-Hyun Nam<sup>1</sup>, Donggeun Sul<sup>2</sup>, Hwa Jung Sung<sup>4</sup>, Ji Seon Choi<sup>3</sup>, Se Ryeon Lee<sup>4</sup>, Chi-Hyun Cho\*<sup>1</sup>  
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<sup>3</sup> Department of Laboratory Medicine, International St. Mary's Hospital, Catholic Kwandong University College of Medicine, Korea  
<sup>4</sup> Department of Hematology, Korea University Medical College, Korea
- PP-111** Cell population data of automated hematology analyzer Sysmex XN for Sepsis  
Mikyoung Park, Mina Hur\*, Hanah Kim, Hee-Jung Chung, Hee-Won Moon, Yeo-Min Yun  
Department of Laboratory Medicine, Konkuk University School of Medicine, Korea
- PP-112** The effect of oral administration corticosteroid toward leukocytes number and differential count in mice (*Mus Musculus*) based on its duration  
Handyka Milfiadi\*<sup>1</sup>, Rahmatini Rahmatini<sup>2</sup>, Zelly Dia Rofinda<sup>3</sup>  
<sup>1</sup> Faculty of Medicine, Andalas University, Indonesia  
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## POSTERS

- PP-113** Hematologic scoring system for detection of neonatal sepsis  
Siti Anisa Fatmawati  
*Clinical Pathology/Laboratory, Fatimah Islamic Hospital, Indonesia*
- PP-114** Screening of dysplastic neutrophils using cell population data using Sysmex XN-1000 analyzer  
Hyunjung Kim, Eunhee Han, Kyungja Han\*  
*Department of Laboratory Medicine, College of Medicine, The Catholic University of Korea, Seoul, Korea*
- PP-115** A case of spurious white blood cell count from automated Sysmex XN hematology analyzer: Difference between WNR and WDF channels  
Han Joo Kim, Seung Namgoong, Chan-Jeoung Park\*  
*Department of Laboratory Medicine, University of Ulsan, College of Medicine and Asan Medical Center, Seoul, Korea*
- PP-116** Atypical chronic lymphocytic leukemia has a worse prognosis than CLL and clinically and laboratory different from B-cell prolymphocytic leukemia  
Ari Ahn<sup>1</sup>, Chan-Jeoung Park\*<sup>1</sup>, Eul-Ju Seo<sup>1</sup>, Seongsoo Jang<sup>1</sup>, Young-Uk Cho<sup>1</sup>, Misuk Ji<sup>2</sup>, Youn Mi Choi<sup>2</sup>, Kyoo-Hyung Lee<sup>3</sup>, Jae-Hwan Lee<sup>3</sup>, Jung-Hee Lee<sup>3</sup>, Dok Hyun Yoon<sup>3</sup>, Cheol Won Suh<sup>3</sup>  
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<sup>2</sup> *Laboratory Medicine, VHS Medical Center, Seoul, Korea*  
<sup>3</sup> *Internal Medicine, University of Ulsan College of Medicine and Asan Medical Center, Seoul, Korea*
- PP-117** Participation in the external quality assurance for international normalised ratio: Our experience  
Halimatun Radziah Binti Othman\*, Fatmawati Kamal  
*Department of Pathology, Faculty of Medicine Universiti Teknologi MARA Sungai Buloh Campus, Malaysia*
- PP-118** HDAC inhibitor martinostat-induced immunogenic cell death in chronic myeloid leukemia  
Haeun Yang<sup>1</sup>, Aloran Mazumder<sup>2</sup>, Michael Schneckeburger<sup>2</sup>, Marc Diederichs\*<sup>1</sup>  
<sup>1</sup> *College of Pharmacy, Seoul National University, Korea*  
<sup>2</sup> *LBMCC, Kirchberg Hospital, Luxembourg*
- PP-119** Optimization of high resolution melting assays for detection of candidate SNPs associated with anemia: The nutrigenomics unit, FNRI-DOST experience  
Vanessa Joy Timoteo\*<sup>1,2</sup>, Rod Erick Agarrado<sup>2</sup>, Jacus Nacis<sup>2</sup>, Marietta Rodriguez<sup>2</sup>  
<sup>1</sup> *Institute of Biomedical Sciences, Academia Sinica, Taiwan International Graduate Program in Molecular Medicine, Taiwan*  
<sup>2</sup> *Nutrigenomics Unit, Food and Nutrition Research Institute, Department of Science and Technology, Philippines*
- PP-120** Comparison of gene expression profile in myeloid, lymphoblastic and mixed phenotype acute leukemia sharing minor BCR/ABL1 fusion using RNA sequencing  
Jaewoong Lee<sup>1,2</sup>, Eunhee Han<sup>1,2</sup>, Kyungja Han<sup>1</sup>, Seong-Eui Hong<sup>3</sup>, Byung-Sik Cho<sup>4</sup>, Hee-Je Kim<sup>4</sup>, Myungshin Kim<sup>1,2</sup>, Yonggoo Kim<sup>1,2</sup>  
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## POSTERS

- PP-121** Synergistic apoptosis induced by a targeted combination treatment with midostaurin and ABT199 in the FLT3-ITD-Positive and BCL2-overexpressing MV4-11  
Marc Diederich\*, Somi Lee  
*College of Pharmacy, Seoul National University, Korea*
- PP-122** TMQ0153, a synthetic hydroquinone, induces autophagy followed by controlled necroptosis via mitochondrial dysfunction in chronic myelogenous leukemia  
Sungmi Song<sup>1</sup>, Barбора Orlikova<sup>1,2</sup>, Claudia Cerella<sup>1,2</sup>, Ali Al-Mourabit<sup>3</sup>, Marc Diederich\*<sup>1</sup>  
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<sup>2</sup> *Laboratory of Molecular and Cellular Biology of Cancer, LBMCC, Luxembourg*  
<sup>3</sup> *ICSN-CNRS, LabEx LERMIT Centre de Recherche de Gif-Sur-Yvette, France*
- PP-123** Burden and associated factors of anemia among pregnant women attending antenatal care in southern Ethiopia: Cross sectional study  
Amare Desalegn Wolide  
*Medical Physiology Department, Jimma University, Ethiopia*
- PP-124** Molecular genetic modifier of glucose-6-phosphate dehydrogenase gene  
Pornlada Nuchnoi\*<sup>1,2</sup>, Usanee Kerdpin<sup>3</sup>, Virapong Prachayasittikul<sup>2</sup>, Chartchalerm Isarankura-Na-Ayudhya<sup>2</sup>  
<sup>1</sup> *Department of Clinical Microscopy, Faculty of Medical Technology, Faculty of Medical Technology, Mahidol University, Thailand*  
<sup>2</sup> *Center for Research and Innovation, Faculty of Medical Technology, Mahidol University, Thailand*  
<sup>3</sup> *Department of Chemistry, Faculty of Science, Naresuan University, Thailand*
- PP-125** Macrocytic anemia associated infantile tremor syndrome and vitamin D  
Gemawat Narendra  
*Pediatrics, Hindustan Chamber Chikitsalaya, India*
- PP-126** Smartphone-based diagnosis in glucose-6-phosphate dehydrogenase deficiency  
Attakorn Palasuwan  
*Clinical Microscopy, Faculty of Allied Health Sciences, Chulalongkorn University, Thailand*
- PP-127** Microparticles-derived miRNAs serves as a novel diagnosis marker for glucose-6-phosphate dehydrogenase deficiency  
Duangdao Palasuwan  
*Clinical Microscopy, Chulalongkorn University, Thailand*
- PP-128** Association of hematologic parameters with TMPRSS6 gene variations in iron deficiency anemia patients  
Javad Alizargar  
*Medicine, Kashan University of Medical Sciences, Iran*



## POSTERS

- PP-129** The effect of moringa seeds extract as anti anemia of chronic disease through decreasing IL-6 expression in liver tissue of metabolic syndrome rats  
Mohamad Arif Fikri\*, Bastomy Eka Rezkitia  
*Pathology Anatomy, Sebelas Maret university, Indonesia*
- PP-130** Thalassemia major patients presenting with raised HbF and a fast moving Hb  
Rakesh Kumar<sup>1</sup>, Chandan S. Sagar<sup>1</sup>, Dharmesh, C. Sharma<sup>2</sup>, Purnima Kishor\*<sup>1</sup>  
<sup>1</sup> *School of Studies in Biochemistry, Jiwaji University, Gwalior, Madhya Pradesh, India*  
<sup>2</sup> *Blood Bank, Jayarogya Hospital, Gajra Raja Medical College, Gwalior, Madhya Pradesh, India*
- PP-131** Exploring the  $\beta$ -thalassaemia mutations in western rajasthan with clinical expression  
Abhishek Purohit\*<sup>1</sup>, Kuldeep Singh<sup>2</sup>, Anand Raj Kalla<sup>3</sup>, Manju Bohra<sup>4</sup>, Deepak Vedant<sup>1</sup>, Mayank Kumar<sup>1</sup>, Shashikant Saini<sup>5</sup>  
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<sup>2</sup> *Paediatrics, All India Institute of Medical Sciences, Jodhpur, India*  
<sup>3</sup> *Pathology, Dr. S N Medical College, Jodhpur, India*  
<sup>4</sup> *Immunohaematology and Blood TRansfusion, Dr. S N Medical College, Jodhpur, India*  
<sup>5</sup> *All India Institute of Medical Sciences, Jodhpur, India*
- PP-132** A case of  $\delta$ -Thalassemia in Korea  
Boram Kim<sup>1</sup>, Seok Il Hong<sup>2</sup>, Ji Ae Lim<sup>2</sup>, Sung Sup Park<sup>1</sup>, Han-Ik Cho\*<sup>2</sup>  
<sup>1</sup> *Department of Laboratory Medicine, Seoul National University Hospital, Korea*  
<sup>2</sup> *Medicheck Laboratory, Korea Association of Health Promotion, Korea*
- PP-133** Parvovirus B19-associated neutropenia and thrombocytopenia without anemia  
Hyoshim Shin<sup>1</sup>, Sungwoo Park<sup>2</sup>, Gyeong-Won Lee<sup>2,3</sup>, Eun-Ha Koh<sup>1,3</sup>, Hyun-Young Kim\*<sup>1</sup>  
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<sup>3</sup> *Institute of Health Science, Gyeongsang National University, Jinju, Korea*
- PP-134** Attenuation of anemia by retlna in LPS-induced inflammatory response  
Mi-Ran Lee\*, Seon-Hye Lee, Min-Ju Jeung, Yoon-Hee Hwang, Nam-Hee Kim, Yoon-Jin Park  
*Department of Biomedical Laboratory Science, Jungwon University, Korea*
- PP-135** Glucose-6-phosphate dehydrogenase deficiency in newborns in Birjand, Iran  
Mohammad Sadeqh Kamali<sup>1</sup>, Mohammad Hossein Motahari Nasab<sup>1</sup>, Seyed Mehdi Sajjadi\*<sup>2</sup>  
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<sup>2</sup> *Cellular and Molecular Research Center, Birjand University of Medical Sciences, Birjand, Iran*



## POSTERS

- PP-136** Screening of  $\alpha$ -thalassemia using cord blood in Bangladesh  
Saeed Anwar, Md. Faruque Miah\*  
*Department of Genetic Engineering and Biotechnology, School of Life Sciences, Shahjalal University of Science and Technology, Bangladesh*
- PP-137** Knowledge trend of anemia in adolescents in Indonesia  
Nuraliah Nuraliah  
*Faculty of Health, West Sulawesi University, Indonesia*
- PP-138** Successful sirolimus treatment of pure red cell aplasia in patients with renal insufficiency  
Zesong Chen, Bing Han\*  
*Department of Hematology, Peking Union Medical College Hospital and Peking Union Medical College, China*
- PP-139** Local wisdom and anemia prevention: Study of the use of herbs as an alternative treatment for rural communities in west Sulawesi, Indonesia  
Mahyuddin Mahyuddin  
*Faculty of Social and Governmental Science, University of Al Assyriah Mandar, Indonesia*
- PP-140** The influence of socio-economic factors on prevalence of anemia among women of reproductive age in ASEAN-5  
Putri Ayu  
*Economics of Development, Universitas Andalas, Indonesia*
- PP-141** The problem of identification of population objects during the unification of data from multiple sources when working with a hemophilia register  
Saidrakhim Lukmonov<sup>1</sup>, Uktam Kurbankulov<sup>1</sup>, Sergey Kim<sup>1</sup>, Akbar Abdullaev<sup>2</sup>  
<sup>1</sup> Hematology, Tashkent Medical Academy, Uzbekistan  
<sup>2</sup> Hematology, Samarkand State Medical Institute, Uzbekistan
- PP-142** Prevalence of anaemia in western region of Nepal: A hospital based study  
Mukunda Raj Kalouni, Saroj Pokhrel\*  
*Clinical Pathology, Manipal Teaching Hospital, Nepal*
- PP-144** Chlorophyll as a considerable treatment for anemia through increases hemoglobin levels in anemia white rat model  
Indah Sagitaisna Putri\*, Faisal Hafidh  
*Faculty of Medicine, Sebelas Maret University, Surakarta, Indonesia*
- PP-145** Effect of carica papaya leaf extract on platelet counts in patient of dengue  
Jay Karan\*<sup>1</sup>, Pankaj Bhardwaj<sup>2</sup>, Jagdish Goyal<sup>3</sup>  
<sup>1</sup> Pharmacology, All India Institute of Medical Sciences, Jodhpur, India  
<sup>2</sup> Community and Family Medicine, All India Institute of Medical Sciences, Jodhpur, India  
<sup>3</sup> Paediatrics, All India Institute of Medical Sciences, Jodhpur, India



## POSTERS

- PP-146** Platelet indices and their value in differentiating the causes of thrombocytopenia  
Thi Duyen Nguyen, Thi Nghiem Luong\*  
*Hematology, National Children's Hospital, Vietnam*
- PP-147** Perioperative management and outcomes in children with congenital bleeding disorders: A retrospective review at a single hemophilia treatment center  
Ha Nuel Chon, Seoim Kim, Jinjoo Kim, Young Shil Park\*  
*Department of Pediatrics, Kyung Hee University Hospital at Gangdong, Korea*
- PP-148** Reference intervals for platelet dense granules using whole mount electron microscopy  
Jin-Yeong Han\*<sup>1</sup>, In-Hwa Jeong<sup>1</sup>, Hee-Won Chueh<sup>2</sup>, Sang-Soo Park<sup>3</sup>, Seo-Hee Rha<sup>3</sup>  
<sup>1</sup> *Department of Laboratory Medicine, Dong-A University College of Medicine, Korea*  
<sup>2</sup> *Department of Pediatrics, Dong-A University College of Medicine, Korea*  
<sup>3</sup> *Department of Pathology, Dong-A University College of Medicine, Korea*
- PP-149** Platelet parameters and inflammation in anemic and non-anemic patients with type 2 diabetes and early CKD  
Ivan Pchelin\*<sup>1</sup>, Alexander Shishkin<sup>1</sup>, Valentina Bayrasheva<sup>2</sup>, Natalia Hudiakova<sup>1</sup>  
<sup>1</sup> *Department of Faculty Therapy, Saint Petersburg State University, Russia*  
<sup>2</sup> *Institute of Endocrinology, Almazov National Medical Research Centre, Russia*
- PP-150** Parameters of coagulation and fibrinolysis in patients with diabetes type 2 and chronic kidney disease  
Volha Vasilkova\*<sup>1</sup>, Tatsiana Mokhort<sup>2</sup>, Yana Borovets<sup>1</sup>, Ludmila Korotaeva<sup>4</sup>, Natallia Filiptsova<sup>3</sup>, Elena Naumenko<sup>3</sup>  
<sup>1</sup> *Endocrinology, Gomel State Medical University, Belarus*  
<sup>2</sup> *Endocrinology, Belarussian State Medical University, Belarus*  
<sup>3</sup> *Functional Diagnostics, The Republican Research Center for Radiation Medicine and Human Ecology, Belarus*  
<sup>4</sup> *Laboratory Diagnostics, The Republican Research Center for Radiation Medicine and Human Ecology, Belarus*
- PP-151** The prognostic value of mean platelet volume in venous thromboembolism  
Atika Budhy Setyani\*<sup>1</sup>, Muhamad Fajri Addai<sup>2</sup>, Jonathan Hasian Haposan<sup>3</sup>  
<sup>1</sup> *Emergency Department, Cempaka Putih General Hospital, Jakarta, Indonesia*  
<sup>2</sup> *Emergency Department, Johar Baru Primary Health Care, Jakarta, Indonesia*  
<sup>3</sup> *Department of Epidemiology, University of Pittsburgh, USA*
- PP-152** The prognostic role of red cell distribution width in venous thromboembolism and related mortality  
Muhamad Fajri Addai\*<sup>1</sup>, Atika Budhy Setyani<sup>2</sup>, Jonathan Hasian Haposan<sup>3</sup>, Amiliana Mardiani Soesanto<sup>4</sup>  
<sup>1</sup> *Emergency Department, Johar Baru Primary Health Care, Jakarta, Indonesia*  
<sup>2</sup> *Emergency Department, Cempaka Putih General Hospital, Jakarta, Indonesia*  
<sup>3</sup> *Department of Epidemiology, University of Pittsburgh, USA*  
<sup>4</sup> *Non-Invasive Diagnostic and Echocardiography Department, National Cardiovascular Center of Harapan Kita, Indonesia*



## POSTERS

**PP-153** Long-term expansion of Gata1<sup>low</sup> Meg-erythroid cells increased cell division while maintained differentiation potential

Eunju Shin<sup>1,2</sup>, Daseul Kim<sup>1</sup>, Jong-Gwan Jeong<sup>1</sup>, Haiyoung Jung<sup>1</sup>, Suk-Ran Yoon<sup>1</sup>, Tae-Don Kim<sup>1</sup>, In-Pyo Choi<sup>1</sup>, Ji-Yoon Noh<sup>1\*</sup>

<sup>1</sup>Immunotherapy Convergence Research Center, Korea Research Institute of Bioscience and Biotechnology (KRIBB), Daejeon, Korea

<sup>2</sup>College of Pharmacy, Chungnam National University, Daejeon, Korea

**PP-154** Analysis of genetic factors in Korean adult patients with atypical hemolytic uremic syndrome

Jae Won Yun<sup>1</sup>, Ki-O Lee<sup>2</sup>, Jung Oh Kim<sup>4</sup>, Nam Keun Kim<sup>4</sup>, Jin Seok Kim<sup>5</sup>, Junshik Hong<sup>6</sup>, Youngil Koh<sup>6</sup>, Sung-Soo Yoon<sup>6</sup>, Ho-Young Yhim<sup>7</sup>, Yong Park<sup>8</sup>, Ki Young Kwon<sup>9</sup>, Jinny Park<sup>10</sup>, Jong Wook Lee<sup>11</sup>, Hee-Jin Kim<sup>1</sup>, Doyeun Oh<sup>\*3</sup>

<sup>1</sup>Department of Laboratory Medicine and Genetics, Samsung Medical Center, Korea

<sup>2</sup>Samsung Biomedical Research Institute, Samsung Medical Center, Korea

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<sup>7</sup>Department of Internal Medicine, Chonbuk National University Medical School, Korea

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

<sup>9</sup>Department of Oncology-Hematology, Keimyung University College of Medicine, Korea

<sup>10</sup>Department of Internal Medicine, Gachon University College of Medicine, Korea

<sup>11</sup>Department of Hematology, St. Mary's Hospital, College of Medicine, The Catholic University, Korea

**PP-155** Hereditary platelet function disorder from RASGRP2 mutations identified by whole exome sequencing

Jae Won Yun<sup>1</sup>, Chul Won Jung<sup>2</sup>, Soo-Young Oh<sup>3</sup>, Sun-Hee Kim<sup>1</sup>, Chul Won Choi<sup>4</sup>, Hee-Jin Kim<sup>\*1</sup>

<sup>1</sup>Department of Laboratory Medicine and Genetics, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

<sup>2</sup>Department of Internal Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

<sup>3</sup>Department of Obstetrics and Gynecology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

<sup>4</sup>Division of Hematology and Oncology, Department of Internal Medicine, Korea University College of Medicine, Korea

**PP-156** Cryopreservation of peripheral blood stem cell using mechanical freezers : Initial Experience from an Indian tertiary care hospital

Nitin Agarwal<sup>\*</sup>, Prashant Pandey

Transfusion Medicine and Transplant Immunology, Jaypee Hospital, India

**PP-157** Modified post-transplant cyclophosphamide allogeneic HSCT combined with decitabine-based reduction, busulfan and melphalan conditioning regimen in children with juvenile myelomonocytic leukemia

Xiaodong Shi, Yan Yue<sup>\*</sup>

Hematology and Oncology, Capital Institute of Pediatric, China



## POSTERS

- PP-158** The correlation and predictive value of immature platelet fraction to plasma platelet recovery in patients receiving autoSCT  
Siew Lian Chong\*<sup>1</sup>, Kian Boon Law<sup>2</sup>, Kian Meng Chang<sup>2</sup>  
<sup>1</sup> Hematology Department, Hospital Ampang, Malaysia  
<sup>2</sup> Clinical Trial Unit, National Clinical Research Centre, MOH, Malaysia
- PP-159** Survival by time to start of defibrotide in veno-occlusive disease/sinusoidal obstruction syndrome post hematopoietic stem cell transplant in adults  
 Paul Richardson\*<sup>1</sup>, Enric Carreras<sup>2</sup>, Antonio Pagliuca<sup>3</sup>, Robert Ryan<sup>4</sup>, William Tappe<sup>5</sup>, Mohamad Mohty<sup>6</sup>, Richard Martin<sup>7</sup>  
<sup>1</sup> Department of Medical Oncology, Division of Hematologic Malignancy, Jerome Lipper Multiple Myeloma Center, Dana-Farber Cancer Institute, Harvard Medical School, USA  
<sup>2</sup> Spanish Bone Marrow Donor Program, Josep Carreras Leukemia Foundation and Leukemia Research Institute, Spain  
<sup>3</sup> Department of Haematology, King's College Hospital, United Kingdom  
<sup>4</sup> Biostatistics, Jazz Pharmaceuticals, Inc., USA  
<sup>5</sup> Clinical Development, Jazz Pharmaceuticals, Inc., USA  
<sup>6</sup> Hematology Department, Hôpital Saint Antoine, AP-HP, Sorbonne Université, USA  
<sup>7</sup> Jazz Pharmaceuticals, Oxford, UK
- PP-160** Initial evaluation of the efficacy of autologous stem cell transplantation in non-hodgkin lymphoma at HCMC blood transfusion hematology hospital  
Nam Duy Hoang\*<sup>1</sup>, Thu Hanh Nguyen, Phu Duc Vinh Huynh, Man Van Huynh, Dung Chi Phu  
 Stem Cell Transplantation Department, HCMC Blood Transfusion Hematology, Vietnam
- PP-161** Evaluation of the bacterial and fungal infection status in HSCT patients in HCMC blood transfusion and hematology hospital  
Hanh Thu Nguyen\*<sup>1</sup>, Van Man Huynh, Duc Vinh Phu Huynh, Duy Nam Hoang, Thien Ngon Huynh, Xuan Tuan Ma, Chi Dung Phu  
 Stem Cell Transplantation Department, Blood Transfusion Hematology Hospital, Vietnam
- PP-162** Recovery of specific subsets of NK and T cells highly associated with GVHD after haploidentical stem cell transplantation in acute leukemia  
Haerim Chung<sup>1</sup>, Ji Eun Jang<sup>1</sup>, Yu Ri Kim<sup>1</sup>, Hoi-Kyung Jeung<sup>2</sup>, Ju-In Eom<sup>2</sup>, Soo-Jeong Kim<sup>1</sup>, Jin Seok Kim<sup>1</sup>, June-Won Cheong<sup>1</sup>, Yoo Hong Min\*<sup>1</sup>  
<sup>1</sup> Department of Internal Medicine, Yonsei University College of Medicine, Korea  
<sup>2</sup> Avison Biomedical Research Center, Yonsei University College of Medicine, Korea
- PP-163** Autologous hematopoietic stem cell transplantation in acute myeloid leukaemia: Long-term outcome  
Azizan Sharif\*<sup>1</sup>, Tan Sen Mui<sup>1</sup>, Ong Tee Chuan<sup>1</sup>, Ho Kim Wah<sup>1</sup>, Sharifah Shahnaz Syed Abdul Kadir<sup>1</sup>, Law Kian Boon<sup>2</sup>  
<sup>1</sup> Department of Hematology, Hospital Ampang, Malaysia  
<sup>2</sup> Clinical Research Centre, Hospital Ampang, Malaysia





## POSTERS

- PP-164** Impact of CMV prophylaxis on rates of rehospitalization in adult CMV seropositive allogeneic HSCT recipients: Experience from the letermovir phase 3 clinical trial  
Shahrul Mt-Isa\*, Hong Wan, Cyrus Badshah, Valerie Teal, Randi Leavitt, Jonathan Schelfhout, [Eungeol Sim](#)  
*Merck & Co, Kenilworth, NJ, USA*
- PP-166** Lkb1 modulates regulatory T cell homeostasis during acute GVHD  
[Xiuhua Su](#), [Erlie Jiang](#)\*  
*Hematopoietic Stem Cell Transplantation Center, Institute of Hematology, Chinese Academy of Medical Science and Peking Union Medical College, Tianjin, China*
- PP-167** Phase II study of imatinib mesylate and mycophenolate mofetil in children with steroid-refractory sclerotic type chronic graft-versus-host disease  
[Jung Yoon Choi](#)<sup>1,2</sup>, Hyery Kim<sup>3</sup>, Hyoung Jin Kang\*<sup>1,2</sup>, Hee Jo Baek<sup>4</sup>, Hoon Kook<sup>1</sup>, Jae Min Lee<sup>5</sup>, Hong Yul An<sup>1,2</sup>, Kyung Taek Hong<sup>1,2</sup>, Hee Young Shin<sup>1,2</sup>  
<sup>1</sup> *Department of Pediatrics, Seoul National University College of Medicine, Seoul, Korea*  
<sup>2</sup> *Seoul National University Cancer Research Institute, Seoul, Korea*  
<sup>3</sup> *Division of Pediatric Hematology/Oncology, Department of Pediatrics, Asan Medical Center Children's Hospital, Seoul, Korea*  
<sup>4</sup> *Department of Pediatrics, Chonnam National University Hwasun Hospital, Chonnam National University Medical School, Hwasun, Korea*  
<sup>5</sup> *Department of Pediatrics, College of Medicine, Yeungnam University, Daegu, Korea*
- PP-168** Role of platelet-rich plasma in healing diabetic and leprosy foot ulcers in resource poor setting  
[Shambhu Dutta Joshi](#)  
*Dermatology, Far western Community Hospital, Nepal*
- PP-169** Curative effect and optimal timing of allogeneic hematopoietic stem cell transplantation in patients with myelodysplastic syndrome of higher risk groups  
[Qianqian Wang](#), [Mingzhe Han](#)\*  
*Department of Hematopoietic Stem Cell Transplantation, Institute of Hematology & Blood Disease Hospital, CAMS & PUMC, China*
- PP-170** Renal parameters and their associations with clinical severity score among adult Sudanese patients with sickle cell anemia  
[Mohamed Suliman](#)\*<sup>1</sup>, Alnazeer Hassan<sup>2</sup>, Lamis Kaddam<sup>3</sup>  
<sup>1</sup> *Physiology, Ibn Sina University, Sudan*  
<sup>2</sup> *Physiology, Al-Fajr College, Sudan*  
<sup>3</sup> *Physiology, Al Neelain University, Sudan*
- PP-171** Autonomic activity and haemodynamic characteristics in relation to clinical severity of sickle cell anaemia among steady state adults  
[Alnazeer Hassan](#)\*<sup>1</sup>, Mohamed Suliman<sup>2</sup>, Lamis Kaddam<sup>3</sup>  
<sup>1</sup> *Physiology, Alfajr College for Science and Technology, Sudan*  
<sup>2</sup> *Physiology, Ibn Sina University, Sudan*  
<sup>3</sup> *Physiology, Alneelain, Sudan*



## POSTERS

- PP-172** A somatic cell nuclear transfer methodology for replacement of hematological malignant cells population in the myeloproliferative disorders  
Abdul Mannan Baig  
*Biological and Biomedical Sciences, Aga Khan University, Pakistan*
- PP-173** Adipose-derived stem cells therapy in diabetic osteoarthritis  
Navneet Kumar Dubey\*<sup>1</sup>, Win-Ping Deng<sup>2</sup>  
<sup>1</sup> *Ceramics and Biomaterials Research Group, Advanced Institute of Materials Science, Ton Duc Thang University, Ho Chi Minh City, Vietnam*  
<sup>2</sup> *School of Dentistry, College of Oral Medicine, Taipei Medical University, Taipei, Taiwan*
- PP-174** Adipose tissue derived stromal-vascular-fraction enriched platelet-rich-plasma therapy reverses the effects of androgenetic alopecia  
Mahmood Saba\*<sup>1,2,3</sup>  
<sup>1</sup> *Department of Dermatology, King Edward Medical University, Pakistan*  
<sup>2</sup> *Biomedical Sciences, King Edward Medical University, Pakistan*  
<sup>3</sup> *Tissue Engineering and Regenerative Medicine Laboratory, Department of Biomedical Sciences, King Edward Medical University, Lahore, Pakistan*
- PP-175** To determine the frequency and types of RBC alloimmunization in multitransfused oncology patients at a teaching hospital in Lahore, Pakistan  
Aisha Mahesar\*, Ayisha Imran, Nauman Malik, Mansoor Mazari  
*Hematology, Chughtais Lahore Lab, Pakistan*
- PP-176** An attempt to tailor wastage of blood products in the form of returned units  
Sidra Asad Ali<sup>1</sup>, Maria Ali<sup>2</sup>, Huma Mansoori<sup>3</sup>  
<sup>1</sup> *Laboratory, Patel Hospital, Pakistan*  
<sup>2</sup> *Pathology, Jinnah Medical and Dental College, Pakistan*  
<sup>3</sup> *Pathology, Dow University of Health Sciences, Pakistan*
- PP-177** Inappropriate use of fresh frozen plasma in a tertiary care hospital  
Sidra Asad Ali\*, Wajeeha Noman, Mariam Mirza  
*Laboratory, Patel Hospital, Pakistan*
- PP-178** Post donation notification, counseling and response rate of reactive blood donor: An important step to prevent reactive donor from re-donating blood  
Sidra Asad Ali\*, Syed Usama, Mariam Mirza  
*Laboratory, Patel Hospital, Pakistan*



## POSTERS

- PP-179** Therapeutic plasma exchange in rat killer (Yellow Phosphorus) poisoning: Experience from South India  
Deepti Sachan<sup>\*1</sup>, Ilankumaran Kaliamoorthy<sup>2</sup>, Akila Rajakumar<sup>2</sup>, Dinesh Jothimani<sup>2</sup>, Mettu S Reddy<sup>2</sup>, Kulaseharan Vh<sup>2</sup>, Mukul Vij<sup>3</sup>, Mohamed Rela<sup>2</sup>  
<sup>1</sup> *Transfusion Medicine, Dr. Rela Institute & Medical Centre, India*  
<sup>2</sup> *Institute of Liver Disease & Transplant Centre, Dr. Rela Institute & Medical Centre, India*  
<sup>3</sup> *Department of Pathology, Dr. Rela Institute & Medical Centre, India*
- PP-180** Correlation between the IgG subclasses with occurrence and severity of haemolytic disease of foetus and newborn  
Rahul Katharia<sup>\*</sup>, Bharat Singh, Madhkani Pradhan, Rajendra Chaudhary  
*Transfusion Medicine, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, INDIA, India*  
*Maternal and Reproductive Health, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, INDIA, India*
- PP-181** Overview of antibodies implicated in delayed hemolytic transfusion reaction  
Rahul Katharia<sup>\*</sup>, Rajendra Chaudhary  
*Transfusion Medicine, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India*
- PP-182** Retrospection of anti-blood group antibody proficiency testing data using geometric mean and standard deviation  
John Jeongseok Yang, Dae-Hyun Ko<sup>\*</sup>, Sang-Hyun Hwang, Heung-Bum Oh  
*Department of Laboratory Medicine, University of Ulsan College of Medicine and Asan Medical Center, Korea*
- PP-183** Ensuring standard transfusion practices amidst staff nurses by implicating a framework of knowledge gap analysis and subsequent reformatory measures  
Maria Ali Soomro<sup>\*1</sup>, Mahadev Harani<sup>1</sup>, Sidra Asad Ali<sup>2</sup>, Huma Mansoori<sup>3</sup>  
<sup>1</sup> *Department of Pathology, Jinnah Medical and Dental College, Karachi, Pakistan*  
<sup>2</sup> *Department of Pathology, Patel Hospital, Karachi, Pakistan*  
<sup>3</sup> *Department of Pathology, Dow University of Health Sciences, Karachi, Pakistan*
- PP-184** Knowledge, attitudes and practices on blood transfusion of medical residents in a tertiary hospital: A questionnaire-based study  
Rmin Sheila Miranda  
*Internal Medicine, Philippine General Hospital, Philippines*
- PP-185** Correlation between packed red cells hematocrit with post-transfusion hemoglobin level in anemic patient at Badung mangusada district hospital, Bali  
Ni Gusti Ayu Arini Junita Putri Kardinal<sup>\*1</sup>, Ni Made Renny Anggreni Rena<sup>2</sup>, Wayan Losen Adnyana<sup>2</sup>, Tjokorda Gde Dharmayudha<sup>2</sup>, Ketut Suega<sup>2</sup>, I Made Bakta<sup>2</sup>, Anak Agung Wiradewi Lestari<sup>3</sup>  
<sup>1</sup> *Division of Hematology and Medical Oncology, Department of Internal Medicine, Faculty of Medicine, Udayana University / Sanglah General Hospital, Indonesia*  
<sup>2</sup> *Division of Hematology and Medical Oncology, Department of Internal Medicine, Faculty of Medicine, Udayana University / Sanglah General Hospital, Indonesia*  
<sup>3</sup> *Department of Clinical Pathology, Faculty of Medicine, Udayana University / Sanglah General Hospital, Indonesia*



## POSTERS

- PP-186** Impact of voluntary non-remunerated blood donation: How the community responds in developing country  
Joshi Mandeeep  
*Public Health, Community Health and Environmental Society, Nepal*
- PP-187** Development of deep vein thrombosis after achieving remission in a patient with acquired hemophilia A  
Camille Ariadne Tanchanco\*<sup>1</sup>, Valerie Ramiro<sup>2</sup>, Johannes Paolo Cerrado<sup>3</sup>, John Mark Torres<sup>3</sup>, Teresita Dumagay<sup>1</sup>, Angelina Mirasol<sup>1</sup>, Teresa Abola<sup>2</sup>  
<sup>1</sup> Section of Hematology, Department of Internal Medicine, Philippine General Hospital, Philippines  
<sup>2</sup> Section of Cardiology, Department of Internal Medicine, Philippine General Hospital, Philippines  
<sup>3</sup> Department of Internal Medicine, Philippine General Hospital, Philippines
- PP-188** Successful management and delivery in a pregnancy with secondary evans syndrome from systemic lupus erythematosus and antiphospholipid syndrome  
Camille Ariadne Tanchanco\*<sup>1</sup>, Honorata Baylon<sup>1</sup>, Aubrey Seneris<sup>2</sup>, Patricia Pauline Remalante<sup>3</sup>, Raquel Isabelle Donado<sup>4</sup>  
<sup>1</sup> Section of Hematology, Department of Internal Medicine, Philippine General Hospital, Philippines  
<sup>2</sup> Department of Obstetrics and Gynecology, Philippine General Hospital, Philippines  
<sup>3</sup> Section of Rheumatology, Department of Internal Medicine, Philippine General Hospital, Philippines  
<sup>4</sup> Section of Immunology and Allergology, Department of Internal Medicine, Philippine General Hospital, Philippines
- PP-189** On-demand versus low dose factor VIII prophylaxis treatment in hemophilia A patients: Differences in outcome and factor concentrates utilization  
Kuo Zang Wong<sup>1</sup>, Ngee Siang Lau<sup>2</sup>  
<sup>1</sup> Department of Pharmacy, Hospital Melaka, Malaysia  
<sup>2</sup> Medical Department, Hospital Melaka, Malaysia
- PP-190** Evaluation of bone marrow study in patients with ewing sarcoma/primitive neuroectodermal tumors at a tertiary-care hospital  
Kuenyoul Park<sup>1</sup>, Min Young Lee<sup>1</sup>, Ari Ahn<sup>1</sup>, Hyeri Kim<sup>2</sup>, Kyung-Nam Koh<sup>2</sup>, Young-Uk Cho<sup>1</sup>, Seongsoo Jang<sup>1</sup>, Chan-Jeoung Park\*<sup>1</sup>  
<sup>1</sup> Department of Laboratory Medicine, University of Ulsan College of Medicine and Asan Medical Center, Korea  
<sup>2</sup> Department of Pediatrics, University of Ulsan College of Medicine and Asan Medical Center, Korea
- PP-191** Bone marrow findings of IgG4-related disease; A case of bone marrow involvement of IgG4-related disease  
Han Joo Kim<sup>1</sup>, Enkyung You<sup>1</sup>, Seokchan Hong<sup>2</sup>, Chan-Jeoung Park\*<sup>1</sup>  
<sup>1</sup> Department of Laboratory Medicine, University of Ulsan, College of Medicine and Asan Medical Center, Seoul, Korea  
<sup>2</sup> Division of Rheumatology, Department of Internal Medicine, University of Ulsan, College of Medicine and Asan Medical Center, Seoul, Korea



## POSTERS

- PP-192** Etiology, sensitivity profiles, clinical course of bloodstream infections in patients with hematological and oncological diseases  
Senmin Chen, Sixi Liu, Xiuli Yuan, Huirong Mai, Shilin Liu, Junrong Lin, Feiqiu Wen\*  
*Hematology and Oncology Department, Shenzhen Children's Hospital, China*
- PP-193** Evaluation of neutrophil extracellular traps as the circulating marker for patients with cardiocerebrovascular diseases  
Hyeonho Lim<sup>1</sup>, Inhwa Jeong<sup>1</sup>, Gyudae An<sup>1</sup>, Kwangsook Woo<sup>1</sup>, Kyeonghee Kim<sup>1</sup>, Jeongman Kim<sup>1</sup>, Jaekwan Cha<sup>2</sup>, Moohyun Kim<sup>3</sup>, Jinyeong Han\*<sup>1</sup>  
<sup>1</sup> *Department of Laboratory Medicine, Dong-A University College of Medicine, Korea*  
<sup>2</sup> *Department of Neurology, Dong-A University College of Medicine, Korea*  
<sup>3</sup> *Department of Internal Medicine, Dong-A University College of Medicine, Korea*
- PP-194** Current status of Korea leukemia bank  
Soo-Hyun Kim<sup>1,2</sup>, Mi-Young Lee<sup>1,2</sup>, Soo-Young Choi<sup>2</sup>, Hea-Lyun Yoo<sup>2</sup>, Kyung-Mi Kee<sup>2</sup>, Ji-Hyung Suh<sup>2</sup>, Seon Young Yang<sup>2</sup>, Suna Park<sup>2</sup>, Sa-Hee Park<sup>2</sup>, Dong-Wook Kim\*<sup>1,2,3</sup>  
<sup>1</sup> *Korea Leukemia Bank, The Catholic University of Korea, Korea*  
<sup>2</sup> *Leukemia Research Institute, The Catholic University of Korea, Korea*  
<sup>3</sup> *Department of Hematology, Seoul St. Mary's Hospital, The Catholic University of Korea, Korea*
- PP-195** A report of a new NFKB1 frameshift mutation contributing to primary immunodeficiency diseases  
Yan Liu, Anli Liu, Jun Peng\*  
*Department of Hematology, Qilu Hospital, Shandong University, China*
- PP-196** A case of occult macrophage activation syndrome that mimics of refractory kawasaki disease  
Sang Hyun Joo, Kwang Nam Kim\*  
*Pediatrics, Hallym University Sacred Heart Hospital, Korea*
- PP-197** Cutaneous manifestation among transfusion patients  
Mandeep Joshi  
*Public Health, Community Health and Environmental Society, Nepal*
- PP-199** Dipeptidyl peptidase-IV inhibition and hematological effect of alkaloids rich withania somnifera extract in type 2 diabetic mellitus; In-Vitro, In-Vivo  
Anand Krishna Singh  
*Biotechnology, Devi Ahilya University Indore, India*
- PP-200** Production of a chemotherapeutic enzyme drug for acute myeloid leukemia and acute lymphoblastic leukemia: L- asparaginase  
Girish Pendharkar\*, Sujata Umrane, Dhanashree Patil, Shweta Patil  
*School of Life Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, India*



## POSTERS

- PP-201** Factors associated with quality of life in patients with leukemia  
Elaheh Alizargar, Azadeh Alizargar\*  
*Community Health Research Center, Khorasgan Azad University, Iran*
- PP-202** Systematic literature review and assessment of health-related quality of life in aggressive non-hodgkin lymphoma survivors  
Md Azharuddin\*<sup>1</sup>, Mohammad Adil<sup>2</sup>, Pinaki Ghosh<sup>3</sup>, Manju Sharma<sup>1,2</sup>  
<sup>1</sup> *Department of Pharmaceutical Medicine, School of Pharmaceutical Education and Research, Jamia Hamdard, India*  
<sup>2</sup> *Department of Pharmacology, School of Pharmaceutical Education and Research, Jamia Hamdard, India*  
<sup>3</sup> *Department of Pharmacology, Poona College of Pharmacy, Bharati Vidyapeeth, India*
- PP-203** Psychosocial counseling for prevention of sickle cell in a tribal population  
Suresh Gemawat  
*General Medical Laboratory, Madan Mohan Medical and Counselling Centre, Jodhpur, India*
- PP-204** Incidence of cancer incidence in India: A analysis from cancer registries  
Abul Kalam Najmi\*<sup>1</sup>, Md Salman Hussain<sup>2</sup>, Md Sarfaraj Hussain<sup>3</sup>  
<sup>1</sup> *Department of Pharmacology, Jamia Hamdard, India*  
<sup>2</sup> *Department of Pharmaceutical Medicine, Jamia Hamdard, India*  
<sup>3</sup> *Department of Pharmacognocny, Integral University, India*



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# 2020

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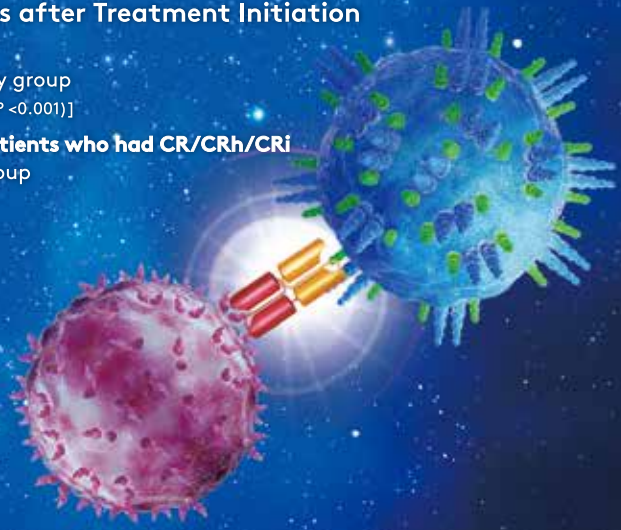
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- **7.7 months** vs. 4.0 months in the chemotherapy group  
(HR 0.71; 95% CI, 0.55-0.93;  $P = 0.01$ )<sup>1</sup>
- **11.1 months** vs. 5.3 months in the chemotherapy group at 1<sup>st</sup> salvage-treatment phase  
(HR 0.60; 95% CI, 0.39-0.91)

## Remission Rate within 12 Weeks after Treatment Initiation

- **CR/CRh/CRi**  
**43.9% vs 24.6%** in the chemotherapy group  
[Treatment difference 19.3 (95% CI, 9.9-28.7;  $P < 0.001$ )]
- **MRD negative status among the patients who had CR/CRh/CRi**  
**76% vs 48%** in the chemotherapy group  
[Treatment difference 28 (95% CI, 9-47)]



CR/CRh/CRi = complete remission with full, partial, or incomplete hematologic recovery

CR was defined as 5% or less bone marrow blasts and no evidence of disease and was further characterized as follows: CR with full recovery (platelet count of  $>100,000/\mu\text{L}$  and ANC of  $>1000/\mu\text{L}$ ), CR with partial recovery (platelet count of  $>50,000/\mu\text{L}$  and ANC of  $>500/\mu\text{L}$ ), or CR with incomplete recovery (platelet count of  $>100,000/\mu\text{L}$  or ANC of  $>1000/\mu\text{L}$ ).

ANC, absolute neutrophil count

<sup>1</sup>which crossed the prespecified stopping boundary

Reference Kantarjian H, et al. Blinatumomab versus Chemotherapy for Advanced Acute Lymphoblastic Leukemia. N Engl J Med 2017;376:836-47.

### 블린사이토 주 제품요약정보

**제품명:** 블린사이토(주3500) (비로그그림) (비나투만, 유전자제약), **효능효과:** 말라리아에 걸리며 응상된 지방 또는 불응성 전구 B세포 양성 림프모구성 백혈병의 치료, **용법용량:** 이 약 치료 전회 주기는 28일간의 지속적인 정맥 투여와 이후의 14일간의 치료 휴지 기간으로 이루어집니다 (총 42일), **제형:** 50mg 이상 환자: 경우 고장된 용량을 투여하고 (주기 1의 1-7일차: 9mg/일, 주기 1의 8-28일차 및 이후 주기의 1-28일차: 28mg/일), 50kg 미만 환자: 환자의 체표면적을 고려하여 용량을 설정한다. (주기 1의 1-7일차: 5mg/m<sup>2</sup>/일, 주기 1의 8-28일차 및 이후 주기의 1-28일차: 15mg/m<sup>2</sup>/일) 이 약은 24시간 동안 10mL/시간의 속도로 주입, 또는 48시간 동안 5mL/시간의 속도로 주입하며, 일정한 속도로 총 240mL 이 주입된다. **경고:** 사이토키닌 방출 증후군, 신경학적 독성, **다음 환자에게는 투여하지 말 것:** 이 약의 작용분 또는 다른 성분에 과민반응이 있는 환자, **약물상호작용:** 가장 빈번하게 발생한 약물상호작용 (> 20%)은 발열, 두통, 구개, 부종, 저칼륨혈증, 변질, 열성 호중구감소증, 호중구감소증, 혈소판감소증, 목통, 기침 반흔에 걸린 환자, **50mg 이상 환자:**의 경우: 열성 호중구감소증, 발열, 패혈증, 폐렴, 기구 관련 감염, 호중구감소증, 신진, 괴혈증, 뇌막염, 신염, 혼돈, 두통, **50mg 미만 환자:**의 경우: 발열, 열성 호중구감소증, 사이토키닌 방출 증후군, 환원, 기구 관련 감염, 저산소증, 패혈증, 저칼륨증, 열성 호중구감소증, 열성 호중구감소증, 열성 호중구감소증, 혼란 및 기체조각 능력에 대한 영향, 간 효소 증가, 저칼륨, 패혈증, 조혈모세포 수 감소, **임부 및 수유부:** 네임산부에게서 알려진 선천적 결함의 발생을 유도하는 것은 어떤 동물 모델에서도 임부에게 태아에 대한 잠재적인 위험성을 알리지 않았다. 태반 유동에서 주요 용량 관련과 유사한 발달 독성도 알리지 않았다. 유산 중 이 약의 투여에, 유산 시 영아에 미치는 영향, 수유 중 영아에 미치는 영향에 대한 정보는 어느나 알려진 대로 현재 수유중인 영아에서 B 세포 림프모구감소증과 같은 중증 영향이 발생할 가능성의 있으므로, 어떤으로 치료 중이거나 치료 후 최소 48시간까지는 수유하지 않도록 권고해야 한다. **보관 및 취급상의 주의사항:** 차일 냉동 (-20°C) 보관, 저온상의 주와 주입을 위한 약의 재구성 및 조제: 투약 오류 (과량 투여와 소량 투여를 포함)를 최소화하기 위해서 제품이 청무늬 차음성용 시의 조제(혼합)와 투여에 대한 설명을 엄격하게 지키는 것이 중요하다. 수입판매처: 알파바이오사이언스 (서울특별시 강남구 테헤란로 203, 서울인테네셔널타워 14층), 제품을 처방하시기 전 세계 제품설명서를 참고하여주시기 바랍니다.



알파바이오사이언스  
대한민국 서울특별시 강남구 테헤란로 203 서울인테네셔널타워 14층 | 수신처 부당 : 00798 611 3554



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 **The Korean Society of Hematology**

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