



19th Annual John Goldman Conference on Chronic Myeloid Leukemia : Biology and Therapy

Estoril Congress Center, Estoril, Portugal October 12-15, 2017

Chairs : J. Cortes, T. Holyoake, T.P. Hughes Co-Organizers : R. Bhatia, M. Copland, M. Deininger, D. Perrotti, J. Radich, D. Réa

Advisory Committee : J. Apperley, S. Branford, C. Gambacorti-Passerini, F. Guilhot, R. Hehlmann, P. Laneuville, F-X. Mahon, G. Saglio, C. Schiffer, S. Soverini, P. Valent, R. Van Etten

Thursday, October 12, 2017

12:00-13:30	Registration & Poster Mounting	
13:35-13:45	WELCOME	Jorge Cortes (Houston)
13:45-13:55	iCMLf – A REVIEW	Tim P. Hughes (Adelaide)
13:55-14:05	JANET ROWLEY PRIZE PRESENTATION	Connie Eaves (Vancouver)
	Awardee 2017: Tessa Holyoake (Glasgow)	
14:05-14:25	SPECIAL LECTURE 1: (15'+ 5' discussion) Chair: Connie Eaves (Vancouver)	
	CML stem cells: from discovery to targeting	Tessa Holyoake (Glasgow)
14:25-15:10	SCIENTIFIC SESSION 1: TOP SCORING ABSTRACTS 2017 (12' + 3' discussion Chair: Richard A. Van Etten (Irvine)*, Anna M. Eiring (Salt Lake City)	n)
14:25-14:40	A second generation lysosomotropic agent and a NOVEL autophagy inhibitor drive cml stem cell differentiation and sensitize them to TKI treatment in <i>vitro and in vivo</i>	Pablo Baquero (Glasgow)
14:40-14:55	Role of SCF-expressing bone marrow populations in hematopoietic and leukemic stem cell regulation	Mansi Shah (Birmingham)
14:55-15:10	Incidence of secondary malignancies in patients with chronic myeloid leukemia in chronic phase (CML-CP) in the era of tyrosine kinase inhibitors (TKI)	Koji Sasaki (Houston)
15:10-15:40	Coffee Break	

15:40-17:15	SCIENTIFIC SESSION 2:_STEM CELLS AND THE MICROENVIRONMENT	
	Chair: Xiaoyan Jiang (Vancouver)	
15:40-16:00	<i>Keynote Presentation (15' + 5' discussion)</i> Therapy resistant CML stem cells are dependent on mitochondrial oxidative metabolism for their survival	G. Vignir Helgason (Glasgow)
16:00-17:15	Selected Abstracts (12' + 3' discussion)	
16:00-16:15	Single-cell molecular analysis defines therapy response and immunophenotype of stem cell subpopulations in CML	Rebecca Warfvinge (Lund)
16:15-16:30	Control of leukaemic stem cells in the vascular niche in chronic myeloid leukaemia by e-selectin, CD44, SCL/Tal1 and BCR-ABL1	Daniela S. Krause (Frankfurt)
16:30-16:45	KLF4-mediated suppression of DYRK2 enables self-renewal and survival of leukemia stem cells in chronic myeloid leukemia	Daniel Lacorazza (Houston)
16:45-17:00	CXCL12-expressing bone marrow niches differentially regulate CML stem cells	Puneet Agarwal (Birmingham)
17:00-17:15	Predicting response to TKI therapy using single cell expression data from leukaemic stem cells	Lisa E.M. Hopcroft (Glasgow)

17:15

Welcome reception and poster viewing

Friday, October 13, 2017

8:00-10:00	WORKSHOP FOR NON-CLINICAL SCIENTISTS #1 METABOLOMICS	
	Chairs: Aaron Schimmer (Toronto) and Mike Deininger (Salt Lake City)	
8:00-8:05	Introduction	
8:05-8:30	Novel mitochondrial and metabolic pathways that regulate the fate and differentiation of leukemia	Aaron Schimmer (Toronto)
8:30-8:40	General Discussion	
8:40-9:05	Signaling and targeting of leukemia metabolism	Jing Chen (Atlanta)
9:05-9:15	General Discussion	
9:15-9:40	Reprogrammed amino acid metabolism in CML progression	Takahiro Ito (Athens, USA)
9:40-9:50	General Discussion	
9:50-10:00	Concluding Remarks	
10:00-10:20	Coffee Break	
10:20-10:30	SESSION LEUKA-ESH: LEUKA INTERNATIONAL SCHOLARSHIP AWARD CER	EMONY
10:30-11:50	SCIENTIFIC SESSION 3: MOLECULAR BIOLOGY AND NEW TARGETS Chair: Steffen Koschmieder (Aachen)	
10:30-10:50	<i>Keynote Presentation (15' + 5' discussion)</i> The BM niche uses Mir-300 as a biological rheostat to selectively control stem cell-driven malignant hematopoiesis and innate anti-cancer immunity	Danilo Perrotti (Baltimore) e

10:50-11:50	Selected Abstracts (12' + 3' discussion)	
10:50-11:05	Nuclear Vav3 upregulation is required for BCR-ABL lymphoid leukemogenesis through polycomb repression complex dependent repression	Ramesh Nayak (Cincinnati)*
11:05-11:20	MYC drives epigenetic control of MIR150 gene regulation in CML	Pavel Burda (Prague)
11:20-11:35	CIP2A regulates PP2A by altering the profile of PP2A B subunits	Claire Lucas (Liverpool)
11:35-11:50	Structural and functional analysis of the Bcr-Abl DH and Ph domains: closing the gaps towards a comprehensive molecular understanding of p210 and p190 Bcr-Abl signaling?	Oliver Hantschel (Lausanne)
11:50-12:10	SPECIAL LECTURE 2: (15' + 5' discussion) Chair: TBA	
	Metabolic regulation of blood and bone forming stem cells: The role of ROS and nitric oxide	Tsvee Lapidot (Rehovot)
12:10-14:10	Lunch and Poster Viewing	
14:10-15:15	SCIENTIFIC SESSION 4: CML-BP AND MECHANISMS OF TRANSFORMATIO Chair: Simona Soverini (Bologna)	Ν
14:10-14:30	Keynote Presentation (15' + 5' discussion) Blast phase and residual CML. More in common that we think?	Michael Deininger (Salt Lake City)
14:30-15:15	Selected Abstracts (12' + 3' discussion)	
14:30-14:45	The signaling axis atypical protein kinase C λ /ι-Satb2 mediates blastic phase transformation of b-cell precursors	Ramesh Nayak (Cincinnati)*
14:45-15:00	Role of somatic mutations in clonal evolution of CML from chronic phase to blast phase	Chetasi Talati (Tampa)*
15:00-15:15	Loss of G0S2 contributes to kinase-independent TKI resistance and blastic transformation in CML	Anna M. Eiring (Salt Lake City)
15:15-15:45	Coffee Break	
15:45-16:05	SPECIAL LECTURE 3: (15' + 5' discussion) Chair: Stephane Prost (Fontenay-Aux-Roses)	
	Characterization of ALL Stem Cells	Irmela Jeremias (Munich)
16:05-17:10	SCIENTIFIC SESSION 5: MECHANISMS OF RESISTANCE AND NEW TARGETS Chair: Giuseppe Saglio (Turin)	S
16:05-16:25	Keynote Presentation (15' + 5' discussion) Outflanking resistance with ABL001	Andrew Wylie

16:25-17:10	Selected Abstracts (12' + 3' discussion)	
16:25-16:40	In bone marrow of CML TKI-resistant patients BMP pathway alterations persist and LSC implement an autocrine loop that favor their treatment escape	Véronique Maguer Satta (Lyon)
16:40-16:55	Targeting autophagy in chronic myeloid leukemia through Inhibition of the core autophagy protein ATG4B	Vanessa L. Porter (Vancouver)
16:55-17:10	Activation of p53 enhances antileukemia activity of Bcr-Abl tyrosine kinase inhibitors in a murine model of CML	Bing Z. Carter (Houston)
17:10	Poster Walk 1 and Refreshments Biology Poster Walk: Catriona Jamieson (La Jolla) and Oliver Hantschel Clinical Poster Walk : Franck-Emmanuel Nicolini (Lyon) and Michael Ma	

Saturday, October 14, 2017

9:00-11:00	WORKSHOP FOR NON-CLINICAL SCIENTISTS #2 CELL FATE TRACKING	
	Chairs: Ravi Bhatia (Birmingham) and Daniela Krause (Frankfurt)	
9:00-9:05	Introduction	
9:05-9:30	Fate mapping of hematopoietic stem cell activity in situ	Ann-Kathrin Schuon
9:30-9:40	General Discussion	(Heidelberg)
9:40-10:05	Quantitive single-cell imaging technologies to study	Konstantinos Kokkaliaris
	hematopoietic stem cells and their microenvironment	(Basel)
10:05-10:15	General Discussion	
10:15-10:40	In vivo tools to follow the fate and function of hematopoietic	David Traver (San Diego)
	stem cells	
10:40-10:50	General Discussion	
10:50-11:00	Concluding Remarks	

8:30-11:10	SYMPOSIUM ON MYELOPROLIFERATIVE NEOPLASMS Chairs: Carlo Gambacorti-Passerini (Monza)* and Amy Klion (Bethesda)*	
8:30-8:40	Welcome and Introduction	
8:40-8:55 8:55-9:05	Current understanding of the biology of MPN Discussion	Jyoti Nangalia (Cambridge)
9:05-9:20 9:20-9:30	Understanding eosinophilic syndromes and their management Discussion	Amy Klion (Bethesda)
9:30-9:45 9:45-9:55	Mast cell diseases : Biology and management Discussion	Celalletin Ustun (Minneapolis)
9:55-10:10 10:10-10:20	MDS/MPN : a real entity? Discussion	Eric Padron (Tampa)
10:20-10:35 10:35-10:45	Starting to understand CNL/aCML as a new entity Discussion	Carlo Gambacorti-Passerini (Monza)
10:45-11:00 11:00-11:10	JMML : not just a subset of MDS anymore. Discussion	Charlotte Niemeyer (Freiburg)

11:00-11:30	Coffee Break	
11:30-12:12	BRIEF ORAL COMMUNICATIONS (BIOLOGY) (4 slides/5' + 2' discussion) Chair: Mhairi Copland (Glasgow)	
11:30-11:37	Icsbp-mediated deficiency of Nore1A contributes to CML leukemogenesis by promoting apoptosis resistance	Olatundun Williams (Chicago)
11:37-11:44	Identification of progression-associated mutations in CML by comparative genomic analysis	Shady Adnan-Awad (Helsinki)
11:44-11:51	High BCR-ABL expression defines CD34+ progenitors with significant differences in signal transduction, short- and long-term proliferative potential	Paolo Vigneri (Catania)
11:51-11:58	Effects of ponatinib on vascular endothelial cells as possible explanation for drug-related adverse events seen in patients with CML	Emir Hadzijusufovic (Vienna)
11:58-12:05	Genomic characterization of CML at diagnosis reveals preexisting somatic mutations that may predict progression to blastic phase independently of BCR-ABL1 mutations	Marcin Machnicki (Warsaw)
12:05-12:12	Expression profiles of transcribed ultraconserved noncoding RNAs (T-UCRs) associated with molecular response in CML	Paulo Rodrigues-Santos (Coimbra)

12:12-12:30	BRIEF ORAL COMMUNICATIONS (CLINICAL) (4 slides/5' + 2' discussion) Chair: Tim Brummendorf (Aachen) and Jane Apperley (London)*	
12:12-12:19	The next-in-CML study: creating a national network of laboratories performing BCR-ABL1 kinase domain mutation screening by next generation amplicon deep sequencing	Simona Soverini (Bologna)
12:19-12:26	Bosutinib vs imatinib for newly diagnosed chronic myeloid leukemia in the BFORE trial: results by 3-month BCR-ABL1 transcript level	Andreas Hochhaus (Jena)
12:30-14:30	Lunch and Poster Viewing	
14:30-15:35	SCIENTIFIC SESSION 6: BIOMARKERS Chair: Nick Cross (Southampton)	
14:30-14:50	Keynote Presentation (15' + 5' discussion) Integrative genomics at diagnosis of CML reveals a higher incidence of cancer associated mutations in patients with poor outcome to tyrosine kinase inhibitor therapy in a study of patients with an optimal response versus a very poor response	Susan Branford (Adelaide)
14:50-15:35	Selected Abstracts (12' + 3' discussion)	
14:50-15:05	Somatic variants in epigenetic modifiers identified at diagnosis can predict high risk CML-CP patients starting treatment with first but not second generation TKI	Georgios Nteliopoulos (London)*
15:05-15:20	Allelic polymorphisms of KIR and HLA predict favorable responses to tyrosine kinase inhibitor in CML	Shinya Kimura (Saga)
15:20-15:35	Flow-cytometry peripheral blood CD26+ leukemia stem cells quantification in CML patients during TKI therapy	Monica Bocchia (Siena)
15:35-16:05	Coffee Break	
16:05-16:25	SPECIAL LECTURE 4: (15' + 5' discussion) Chair: TBA	
	Chimeric antigen receptor t-cell therapy for hematologic malignancies	James Kochenderfer (Bethesda)
16:25-17:45	SCIENTIFIC SESSION 7: THERAPEUTIC INTERVENTIONS Chair: Michael Mauro (New York)	
16:25-16:45	<i>Keynote Presentation (15' + 5' discussion)</i> The new ELN recommendations	Andreas Hochhaus (Jena)
16:45-17:30	Selected Abstracts (12' + 3' discussion)	
16:45-17:00	Assessment of imatinib as first-line treatment of CML: 10–Year survival results of the randomized CML study IV and impact of non-CML determinants	Rüdiger Hehlmann (Mannheim)
17:00-17:15	Clinical impact of early and deeper molecular response in newly diagnosed chronic phase CML patients treated with radotinib 300mg BID or imatinib-2 year follow up data of rerise study	Young Rok Do (Daegu)

17:15-17:30	Bosutinib vs imatinib for newly diagnosed CML in the BFORE trial: 18 month follow-up	Carlo Gambacorti-Passerini (Monza)*
17:30-17:45	Response to front-line imatinib treatment in children and adolescents with CML – data from a large pediatric cohort	Meinolf Suttorp (Dresden)
17:45-17:55	JOHN GOLDMAN PRIZE PRESENTATION Awardee 2017: Tim P. Hughes (Adelaide)	Jorge Cortes (Houston)
17:55-18:15	SPECIAL LECTURE 5 (15' + 5' discussion) Chair: TBA	
	From Safe haven to functional cure	Tim P. Hughes (Adelaide)

Sunday, October 15, 2017

7:00-8:00	FUN RUN - PRE-REGISTRATION IS REQUIRED In memory of Jean Khoury	
8:30-10:00	WORKSHOP FOR NON-CLINICAL SCIENTISTS #3 BIOINFORMATICS AND MODELING – PERSPECTIVES FOR SYSTEMS ME Chair: Ingo Roeder (Dresden)	DICINE IN CML
8:30-8:35	Introduction	
8:35-8:55	Single cell'omics analyses: why and how?	Lisa E. M. Hopcroft (Glasgow)
8:55-9:02	General Discussion	
9:02-9:22	Prospects for linking TKI protein kinase inhibition profiles to CML modelling parameters	Richard A. Engh (Tromsoe)
9:22-9:29	General Discussion	
9:29-9:49	From maths to bedside: Model-based treatment optimization	Ingo Roeder (Dresden)
9:49-9:56	General Discussion	
9:56-10:00	Concluding Remarks	
10:00-11:05	SCIENTIFIC SESSION 8: CLINICAL TRIALS INCLUDING TREATMENT FREE Chair: Delphine Rea (Paris) and Richard Clark (Liverpool)	REMISSION
10:00-10:20	Keynote Presentation (15' + 5' discussion)	
	The promises and challenges of TFR	Robert Peter Gale (London)
10:20-11:35	Selected Abstracts (12' + 3' discussion)	
10:20-10:35	Interim analysis of the canadian TKI discontinuation trial: treatment free remission accomplished by dasatinib (TRAD)	Dennis Dong Hwan Kim (Toronto)
10:35-10:50	Interim results from the U.S. Life after stopping TKIs (LAST) study	Ehab Atallah (Milwaukee)
10:50-11:05	Efficacy, safety, and landmark analysis in heavily pretreated patients with chronic-phase CML: 5-year updates from the pivotal phase 2 ponatinib PACE trial	Jorge Cortes (Houston)

11:05-12:10	SCIENTIFIC SESSION 9: ADHERENCE AND PREVALENCE Chair: Franck-Emmanuel Nicolini (Lyon)	
11:05-11:25	Keynote Presentation (15' + 5' discussion)	ТВА
11:25-12:10	Selected Abstracts (12' + 3' discussion)	
11:25-11:40	Factors influencing adherence in CML and ways to improvement: Results of a patient-driven survey of 2546 patients in 63 countries	Giora Sharf (Netanya)
11:40-11:55	The Potential health gain and cost savings of improving adherence in chronic myeloid leukemia	Tim Govers (Nijmegen)
11:55-12:10	Burden of CML in China and India: the rising incidence and prevalence of the disease	Marc Delord (Paris)
12:10-12:20	iCMLf PRIZE (Emerging regions support & partnership) PRESENTATION: Awardee 2017: Jerry Radich (Seattle)	ТВА
12:20-12:40	SPECIAL LECTURE 6: (15' + 5' discussion) Chair: TBA	
	WEIRD solutions to real world problems	Jerry Radich (Seattle)

12:40

Meeting Adjourned