



**2ND TRANSLATIONAL RESEARCH CONFERENCE
ERYTHROPOIESIS CONTROL AND INEFFECTIVE ERYTHROPOIESIS :
FROM BENCH TO BESIDE**

March 5-7, 2021

Chairpersons: Maria-Domenica Cappellini (Milan), Stuart Orkin (Boston), Valeria Santini (Florence)

Friday, March 5th, 2021

13:30-13:40 Welcome

SESSION I – Bone marrow response to viral infections

Chairs: Stuart Orkin (Boston), Valeria Santini (Florence)

13:40-13:45	Introduction	Stuart Orkin (Boston) Valeria Santini (Florence)
13:45-14:05	Immunity and variability response to infection	Jean-Laurent Casanova (New York)*
14:00-14:20	Inhibition of hematopoiesis by viruses	Mo Yang (Hong Kong)*
14:20-14:27	Selected brief oral communication	TBA
14:27-14:34	Selected brief oral communication	TBA
14:34-15:05	<i>Panel discussion</i>	
15:05-15:15	Break	
15:15-16:15	Possible slot for a satellite symposium	

SESSION II – Hematological response to SARS CoV2 infection

Chair(s): Maria-Domenica Cappellini (Milan), TBA

16:15-16:20	Introduction	Maria-Domenica Cappellini (Milan)
16:20-16:35	Iron and Viral infection	Elizabeta Nemeth (Los Angeles)*
16:35-16:50	Iron and Heme disruption in COVID 19	Emanuela Tolosano (Turin)*
16:50-17:05	Anemias and COVID 19	Irene Motta (Milan)
17:05-17:20	Focus on: Blood management during COVID outbreak	Giancarlo M. Liumbruno (Rome)*
17:20-17:50	<i>Panel discussion (may include a possible brief oral communication)</i>	

SESSION III – Dyserythropoiesis in clonal hematopoiesis and MDS

Chairs: Valeria Santini (Florence), Michaela Fontenay (Paris)

17:50-17:55	Introduction	Valeria Santini (Florence) Michael Fontenay (Paris)
17:55-18:10	Into the mechanisms of dyserythropoiesis : the SF3B1 mutation and RSP-14 deficiency models	Michaela Fontenay (Paris)
18:10-18:25	TGF pathway in ineffective erythropoiesis	Olivier Hermine (Paris)
18:25-18:40	Hypoxic niche and microenvironment in clonal hematopoiesis and MDS	Marc H.G.P. Raaijmakers (Rotterdam)*
18:40-18:47	Selected brief oral communication	TBA
18:47-19:20	<i>Panel discussion</i>	

19:20-20:20 3 Simultaneous Breakfast Meet the Expert Sessions - CLINICAL

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| 1. Management of NTDT | Ali Taher (Beirut) |
| 2. New treatments in hemoglobinopathies | Antonio Piga (Turin) |
| 3. Anemia and autoimmunity management in MDS | Pierre Fenaux (Paris) |

Saturday, March 6th, 2021

SESSION IV – Erythropoiesis Control

Chairs: Douglas Higgs (Oxford)* , Mark Fleming (Boston)

13:30-13:35	Introduction	Douglas Higgs (Oxford)* Mark Fleming (Boston)
13:35-13:50	Congenital sideroblastic anemias	Mark Fleming (Boston)
13:50-14:05	GATA 1 experience	Emery Bresnick (Madison)
14:05-14:20	Single cell analysis during erythropoiesis	Vijay G. Sankaran (Boston)*
14:20-14:27	Selected brief oral communication	TBA
14:27-15:00	<i>Panel discussion</i>	

SESSION V – Erythropoiesis control : phase 2

Chairs: TBA

15:00-15:05	Introduction	TBA
15:05-15:20	The terminal differentiation	Lionel Blanc (New York)
15:20-15:35	Eryptosis	Florian Lang (Tübingen)*
15:35-15:50	BM 3D modelling	Alessandra Balduini (Pavia)*
15:50-16:20	<i>Panel discussion</i>	

16:20-16:30 Break

16:30-17:30 Possible slot for a satellite symposium

SESSION VI – Iron metabolism and erythropoiesis

Chair: Clara Camaschella (Milan)

17:30-17:35	Introduction	Clara Camaschella (Milan)
17:35-17:50	Erythropoiesis and iron metabolism interaction	Laura Silvestri (Milan)
17:50-18:05	Macrophage and iron	Martina Muckenthaler (Heidelberg)
18:05-18:20	Atypical microcytic anemias	Graça Porto (Porto)
18:20-18:27	Selected brief oral communication	TBA
18:27-19:00	<i>Panel discussion</i>	

19:00-20:00 3 Simultaneous Meet the Expert sessions – NON CLINICAL

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| 1. The regulation of globin gene expression in erythropoiesis | Douglas Higgs (Oxford)* |
| 2. Mechanism and manipulation of hemoglobin switching | Stuart Orkin (Boston) |
| 3. Mechanisms of inflammation, innate and adaptive immune responses in MDS. | Shahram Kordasti (London) |

19:00-20:00 Mentored Poster Walk

Sunday, March 7th, 2021

SESSION VII – Inherited dyserythropoiesis

Chair: Achille Iolascon (Naples)

14:00-14:05	Introduction	Achille Iolascon (Naples)
14:05-14:20	CDAs	Roberta Russo (Naples)*
14:20-14:35	DBA	Lydie Da Costa (Paris)
14:35-14:50	Germline predisposition to MDS and BM failure	Akiko Shimamura (Boston)*
14:50-14:57	Selected brief oral communication	TBA
14:57-15:30	<i>Panel discussion</i>	

SESSION VIII – Gene Therapy/editing

Chairs: John Porter (London)*, Maria-Domenica Cappellini (Milan)

15:30-15:35	Introduction:	John Porter (London)* Maria-Domenica Cappellini (Milan)
15:35-15:50	Who is the best patient candidate to gene therapy?	Vip Viprakasit (Bangkok)
15:50-16:05	Gene therapy in hemoglobinopathies vs BMT	Marina Cavazzana (Paris)*

16:05-16:20	Gene therapy in hemoglobinopathies vs gene editing	Mitchell Weiss (Memphis)*
16:20-16:35	Focus on : Immunotherapy and CAR-T in MDS: Dream or reality?	Rafael Bejar (La Jolla)*
16:35-17:05	<i>Panel discussion</i>	
17:05-17:15	<i>Break</i>	
SESSION IX – Drugs and ineffective erythropoiesis		
Chairs: Ali Taher (Beirut), Antonio Piga (Turin)		
17:15-17:20	Introduction	Ali Taher (Beirut) Antonio Piga (Turin)
17:20-17:35	Iron restricted erythropoiesis	Tomas Ganz (Los Angeles)*
17:35-17:50	New approaches to anemia of MDS	Uwe Platzbecker (Leipzig)*
17:50-18:05	New approaches for managing SCD	Lucia De Franceschi (Verona)*
18:05-18:12	Selected brief oral communication	TBA
18:12-18:42	<i>Panel discussion</i>	
18:45-19:00	<i>Closing remarks</i>	