

# Red cell biology thirty years after

Milan (Italy), September 24-26, 2015

Organized by:

Dipartimento di Scienze Cliniche e di Comunità  
Università degli Studi di Milano  
Fondazione IRCCS Ca' Granda  
Ospedale Maggiore Policlinico

Promoted by:



FONDAZIONE  
INTERNAZIONALE  
MENARINI

**Aula Magna**

*Università degli Studi di Milano  
Milano*

*Introduction*

=====

*In 1982, a convention was held in Florence called “Advances in Red Blood Cell Biology”, organised by Prof. Gemino Fiorelli with the sponsorship of the Fondazione Menarini. It was a very successful event as for the first time it brought to the attention of clinicians the results of molecular biology relating to red blood cells that could be used in clinical practice, with special focus on the metabolism of iron, the haemoglobinopathies, and anaemia due to enzymatic and haemolytic deficiencies. This was the beginning of molecular biology for the red blood cell. From 24 to 26 September 2015, a conference entitled “Red Cell Biology thirty years after” will be held at the University of Milan, to address all the scientific discoveries and the clinical implications that have taken place during the course of these last thirty years since the first conference. International and national speakers who have made significant contributions to the development of research in the same sectors discussed at the previous conference (iron, haemoglobinopathies, erythrocyte enzymes and haemolysis), will be participating. Some of them are students of the great schools represented at the 1982 conference. The knowledge acquired over the years in relation to red blood cells is the example of how basic research integrates with clinical practice, generating new methods for diagnosing and treating diseases. In this sense the conference to be held in Milan also wants to offer an example of research methodology applied to clinical practice and therefore, it is targeting all those who operate in the various clinical disciplines (haematology, internal medicine, paediatrics) with a special invitation to all the young people who will become increasingly more involved in the molecular approach to medicine.*

*Looking forward to welcoming you in Milan,*

President of the Meeting  
*Prof.ssa Maria Domenica Cappellini*

=====

**With the Patronage of**

Università degli Studi di Milano  
Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico  
Società Italiana di Medicina Interna (SIMI)  
Società Italiana Ematologia (SIE)  
Società Italiana Talassemie ed Emoglobinopatie (SITE)  
Società Scientifica di Medicina Interna (FADOI)  
Rete Ematologica Lombarda (REL)

**President of the Meeting**  
*Maria Domenica Cappellini*

**Scientific Secretariat**  
*Maria Domenica Cappellini*

**Scientific Committee**  
*G. Vago - L. Luzzatto – S. Fargion – M. Cazzola – C. Camaschella – A. Iolascon – A. Piperno - L. De Franceschi – D. Weatherall – C. Hershko – A. Taher – A. Zanella*

**Promoted by:**

**Fondazione Internazionale Menarini**  
Edificio L - Strada 6  
Centro Direzionale Milanofiori  
I-20089 Rozzano (Milan, Italy)  
Phone: +39 02 55308110  
Fax: +39 02 55305739  
E-mail: milan@fondazione-menarini.it  
Http:\\www.fondazione-menarini.it

**Organizing Secretariat - Provider**

**AVEC S.r.l. - Incentive Paintings** - Angela Volpe / Claudia Cislaghi  
Via Lavoratori Autobianchi, 1 - c/o Polo Tecnologico Brianza - Edificio 9 - Ufficio 14  
I-20832 Desio (MB), Italy  
Phone: +39 0362 581579 – Fax: +39 0362 1860074  
E-mail: angela.volpe@avec-eventi.com / claudia.cislaghi@avec-eventi.com

---

**Thursday, September 24, 2015 – Afternoon**

---

14.00 – 14.30 G. Vago (Milan I), L. Luzzatto (Florence, I)  
*Introduction*

***Session I: Hemoglobinopathies***

Chairpersons: G. L. Forni (Genoa, I), L. Luzzatto (Florence, I)

14.30 – 15.00 D. Higgs (Oxford, UK)  
*Opening Lecture*

15.00 – 15.30 S. Rivella (Philadelphia, USA)  
New Therapeutic approaches to Thalassemia excluding gene therapy

15.30 – 16.00 G. Ferrari (Milan, I)  
RBC monogenic diseases gene therapy

16.00 – 16.30 A. Taher (Beirut, L)  
Non transfusion dependent thalassemia (NTDT)

16.30 – 17.00 *Coffee-break*

17.00 – 17.30 L. De Franceschi (Verona, I)  
Pathophysiology of SCD

17.30 – 18.00 M. De Montalembert (Paris, F)  
New therapeutic approaches to SCD

18.00 *Welcome Ceremony*

---

**Friday, September 25, 2015 - Morning**

---

**Session II: Iron**

Chairpersons: P. Arosio (Brescia, I), C. Hershko (Jerusalem, Israel)

09.00 – 09.30 T. Ganz (Los Angeles, USA)  
New insight in iron metabolism

09.30 – 10.00 A. Piperno (Milan, I)  
Hereditary iron overload

10.00 – 10.30 M. Muckenthaler (Heidelberg, G)  
Iron refractory iron deficiency anemia (IRIDA)

10.30 – 11.00 *Coffee break*

Chairpersons: A. Piga (Turin, I), R. Origa (Cagliari, I)

11.00 – 11.30 S. Fargion (Milan, I)  
Iron in metabolic syndromes

11.30 – 12.00 J. B. Porter (London, UK) – NON PUO' PARTECIPARE  
New era of iron chelation

12.00 – 12.30 D. Girelli (Verona, I)  
Iron chelation in iron loading anemia

12.30 – 13.30 *Buffet Lunch*

---

**Friday, September 25, 2015 - Afternoon**

---

**Session III: Anemia and G6PD**

Chairpersons:	A. Zanella (Milan, I), C. Borgna (Ferrara, I)
13.30 – 14.00	L. Luzzatto (Firenze, I) G6PD deficiency
14.00 – 14.30	W. Barcellini (Milan, I) AIHA: diagnostic approach
14.30 – 15.00	A. M. Risitano (Naples, I) Parosysmal nocturnal hemoglobinuria (PNH)
15.00 – 15.30	A. Iolascon (Naples, I) Congenital dyserythropoietic anemia (CDA)
15.30 – 16.00	<i>Coffee break</i>
16.00 – 16.30	G. Weiss (I. OS) Anemia of chronic diseases
16.30 – 17.00	S. Levi (Milan, I) Disorders of neurosiderosis

---

**Saturday, September 26, 2015 - Morning**

---

***Session IV: Discussion of case vignette / Cases discussion***

Chairpersons:	M.D. Cappellini (Milan, I), A. Iolascon (Naples, I)
09.00 – 09.30	Cases on thalassemia and Sickle Cell disease (SCD) G. Graziadei (Milan, I), E. Vencato (Verona, I)
09.30 – 10.00	Cases on Iron overload I. Pelloni (Monza, I) S. Pelusi (Milan, I)
10.00 – 10.30	Cases on hemolytic anemia B. Fattizzo (Milan, I)
10.30 – 11.00	Cases on other anemias I. Andolfo (Naples, I)
11.00 – 11.30	Concluding remarks M. D. Cappellini (Milan, I)
11.30 – 12.30	<i>Brunch</i>

## **GENERAL INFORMATION**

### **Meeting venue**

Aula Magna – Università degli Studi di Milano – Via Festa del Perdono, 7 – 20122 Milan (Italy).

### **Registration hours:**

Thursday, September 24: 01.00 p.m. to 06.00 p.m.

Friday, September 25: 08.30 a.m. to 05.00 p.m.

Saturday, September 26: 08.30 a.m. to 12.30 p.m.

### **Official language**

English. Simultaneous translation will not be provided.

### **Registrations**

No registration fee is required to attend the Conference. Please return the registration form to:

**AVEC S.r.l. - Incentive Paintings - Angela Volpe / Claudia Cislighi**

Via Lavoratori Autobianchi, 1 - c/o Polo Tecnologico Brianza - Edificio 9 - Ufficio 14

I-20832 Desio (MB, Italy)

Phone: +39 0362 581579 – Fax: +39 0362 1860074

E-mail: angeala.volpe@avec-eventi.com / claudia.cislighi@avec-eventi.com

### **CME Accreditation**

The application for CME accreditation has been submitted for Italian Physicians.

The CME credits will be awarded only after full attendance of all sessions.

Completion of the Registration Form, the Learning & Assessment questionnaires are compulsory.

### **European Accreditation**

An application has been submitted to the EACCME for CME accreditation of this event.

### **Technical facilities**

A Slide Center with PCs (Windows and Macintosh operating systems) will be available for Speakers to preview and finalize their presentations. Speakers are kindly requested to submit their presentations on USB flash drive, CD or DVD to the Slide Center technicians at least one hour before their talks.

### **Slide Centre opening hours:**

Thursday, September 24: 01.00 p.m. to 06.00 p.m.

Friday, September 25: 08.30 a.m. to 05.00 p.m.

Saturday, September 26: 08.30 a.m. to 12.30 p.m.

### **Lunches and coffee breaks**

Lunches and coffee breaks will be served in the Meeting area.

### **Abstracts book**

Participants will receive the Abstract book at the Meeting.

### **Attendance certificate**

The attendance certificate will be issued at the accreditation desk following full attendance at the Conference.



## **LIST OF SPEAKERS, DISCUSSANTS, CHAIRPERSONS AND CO-PRESIDENTS OF THE MEETING**

---

### **Andolfo Immacolata**

CEINGE - Advances Biotechnologies  
University Federico II  
Naples (Italy)

### **Arosio Paolo**

Dipartimento Materno Infantile/Tecnologie Biomediche  
Università degli Studi di Brescia  
Brescia (Italy)

### **Barcellini Wilma**

UOC Oncoematologia  
Fondazione IRCCS Ca' Granda  
Ospedale Maggiore Policlinico  
Milan (Italy)

### **Borgna Caterina**

Dipartimento di Scienze Mediche  
Sezione di Pediatria  
Università degli Studi di Ferrara  
Ferrara (Italy)

### **Cappellini Maria Domenica**

Dipartimento Scienze Cliniche e di Comunità  
Università degli Studi di Milano  
Fondazione IRCCS Ca' Granda  
Ospedale Maggiore Policlinico  
Milan (Italy)

### **De Franceschi Lucia**

Dipartimento di Medicina  
Università degli Studi di Verona  
Policlinico G.B. Rossi  
Verona (Italy)

### **De Montalembert Mariane**

Department of Paediatrics  
Hôpital Necker - Enfants Malades  
Paris (France)

### **Fargion Silvia**

Department of Pathophysiology and Transplantation  
University of Milan  
Fondazione IRCCS Ca' Granda  
Ospedale Maggiore Policlinico  
Milan (Italy)

**Fattizzo Bruno**

U.O. Ematologia e Centro Trapianti di Midollo  
Università degli Studi di Milano  
Fondazione IRCCS Ca' Granda  
Ospedale Maggiore Policlinico  
Milan (Italy)

**Ferrari Giuliana**

TIGET Unit  
Università Vita Salute San Raffaele  
Milan (Italy)

**Forni Gianluca**

S.S.D. Ematologia  
Ospedale Galliera  
Genoa (Italy)

**Ganz Tomas**

Depts. of Medicine and Pathology  
University of California  
Los Angeles (USA)

**Girelli Domenico**

Dipartimento Medicina Interna - Malattie del Ferro  
Azienda Ospedaliera Universitaria Integrata di Verona  
Ospedale Borgo Roma  
Verona (Italy)

**Graziadei Giovanna**

Rare Diseases Center  
Department of Medicine and Medical Specialties  
Fondazione IRCCS Ca' Granda  
Ospedale Maggiore Policlinico  
Milan (Italy)

**Hershko Chaim**

Internal Medicine  
Shaare Zedek Medical Center  
Jerusalem (Israel)

**Higgs Douglas**

MRC Molecular Haematology Unit  
Weatherall Institute of Molecular Medicine  
Oxford (United Kingdom)

**Iolascon Achille**

CEINGE - Advanced Biotechnologies  
Dept. of Molecular Medicine and Medical Biotechnologies  
University Federico II  
Naples (Italy)

**Levi Sonia**

Division of Neuroscience  
Vita Salute San Raffaele University  
Milan (Italy)

**Luzzatto Lucio**

Istituto Toscano Tumori  
Florence (Italy)

**Muckenthaler Martina**

Department of Pediatric Oncology, Hematology, Immunology  
and Pneumology  
Otto-Meyerhof-Zentrum  
Heidelberg (Germany)

**Origa Raffaella**

Biomedical Sciences and Biotechnology  
Regional Microcythemia Hospital  
University of Cagliari  
Cagliari (Italy)

**Pelloni Irene**

Internal Medicine  
Azienda Ospedaliera San Gerardo  
Monza (Italy)

**Pelusi Serena**

Centro di Studio e Cura delle Malattie Metaboliche del Fegato  
Hepatology and Internal Medicine  
Fondazione IRCCS Ca' Granda  
Ospedale Maggiore Policlinico  
Milan (Italy)

**Piga Antonio**

Division of Pediatrics & Thalassemia Centre  
Dept. of Clinical and Biological Sciences  
University of Turin  
San Luigi Gonzaga University Hospital  
Turin (Italy)

**Piperno Alberto**

Clinica Medica  
Azienda Ospedaliera San Gerardo  
Monza (Italy)

**Porter John**

Department of Haematology  
University College London  
London (United Kingdom)

**Risitano Antonio Maria**

Division of Hematology  
University Federico II  
Naples (Italy)

**Rivella Stefano**

Weill Cornell Medical College  
New York (United States)

**Taher Ali**

Division of Hematology/Oncology  
American University of Beirut Medical Center  
Beirut (Lebanon)

**Vago Gianluca**

Rettore  
Università degli Studi di Milano  
Milan (Italy)

**Vencato Elisa**

Department of Internal Medicine  
University of Verona and AOUI-Verona  
Verona (Italy)

**Weiss Guenter**

Division of Clinical Immunology and Infectious Diseases  
Medical University of Innsbruck  
Innsbruck (Austria)

**Zanella Alberto**

U.O. Ematologia e Centro Trapianti di Midollo  
Fondazione IRCCS Ca' Granda  
Ospedale Maggiore Policlinico  
Milan (Italy)

**Registration form**  
**Red cell biology thirty years after**

**Milan (Italy), September 24-26, 2015**

**Promoted by:**



FONDAZIONE  
INTERNAZIONALE  
MENARINI

**Physician**

**Postgraduate**

Surname		Name	
Title		Professional Area	
Institution			
Address			
City		Postcode	Country
Telephone		Mobile	Fax
E-mail			

Attendance at the Congress is free of charge. Please return the registration form to:

**AVEC S.r.l. - Incentive Paintings - Angela Volpe / Claudia Cislaghi**

Via Lavoratori Autobianchi, 1 - c/o Polo Tecnologico Brianza - Edificio 9 - Ufficio 14

I-20832 Desio (MB), Italy

Tel.: +39 0362 581579 – Fax: +39 0362 1860074

E-mail: [claudia.cislaghi@avec-eventi.com](mailto:claudia.cislaghi@avec-eventi.com)

Date	Signature
------	-----------

RE: Informative note pursuant to art. 13 of Legislative Decree 196/2003

Dear Client, this is to inform you that the processing of your personal data will be carried out in our company in full compliance with Law /2003. As established by this law, the processing will be based on the principles of correctness, lawfulness and transparency in order to protect your confidentiality and rights.

1) Pursuant to art. 13 we inform you that the data collected will be used for the following purposes:

- a. Organization of events, travel incentives, congresses and conventions: performance of bureaucratic procedures, reservation of tickets for transport, hotels, tourist services; organisational logistics, etc., and/or performance of accreditation procedures (ECM);
- b. Taxation and accounting obligations;
- c. Operational and managerial requirements;
- d. Possible forwarding of informative and promotional material relating to our sector in printed form or electronically.

2) For data required to fulfil obligations envisaged by law, regulations and Community legislation or provisions issued by legally empowered authorities and vigilance and control bodies, and to perform our business activities and fulfil our accounting, taxation and corporate organisational obligations, we are not required to obtain your consent and failure to provide such data will make it impossible to continue the relationship to the extent that said data are necessary for performance of the same.

The purchase of products and services marketed by AVEC SRL enables the latter to forward informative, advertising and promotional material relating to its sector of expertise in compliance with the methods indicated in point 1/d), pursuant to art. 130 subsection 4 of Legislative Decree 196/2003 and point 6 of the provision 'Simplification of certain requirements in the public and private domain concerning data processing for administrative and accounting purposes' - 19 June 2008 *GazzettaUfficiale* (Official Bulletin) no. 152 dated 1 July 2008. Should you decide to object to the processing operations for commercial purposes, said refusal/objection will not have any consequences of any kind. The providing of personal data in order to receive advertising and informative material relating to our area of expertise either in printed form or electronically is entirely optional. Should you decide to object to the processing operations for commercial purposes, said refusal/objection will not have any consequences of any kind.

3) The personal data are processed by the persons in charge who are assigned to said processing in order to ensure correct fulfilment of the purposes indicated in point 1) via electronic instruments and printed files, also via use of safety measures aimed at guaranteeing the confidentiality of the personal data and preventing undue access by unauthorised subjects. Said data will not be subject to disclosure.

Data may be disclosed to the following subjects in their capacity as autonomous data processing controllers and/or in charge of external processing:

- accountants for bookkeeping and taxation obligations;
- attorneys for legal assistance for contractual purposes and management of litigation;
- entities/companies which collaborate with our company in the various sectors, for reasons strictly connected to the purposes set forth in point 1);
- banks and credit institutions.

You may contact the processing controller and persons in charge in order to exercise your rights as set forth in article 7 of Legislative Decree no. 196/2003, that is, the confirmation of the existence or otherwise of the data concerning you, the erasure, anonymization and blocking of data that has been processed unlawfully, the updating, rectifying or integrating of data, certification to the effect that the operations have been notified to the entities to whom or which said data were communicated or disseminated. The right to object to the processing of personal data for the commercial purposes set forth in point 1 d), where it is carried out via automated contact means, shall also be extended to traditional means without prejudice to the possibility for the interested party to exercise this right in part, pursuant to art. 7, subsection 4, letter b), of the Code, that is, by only objecting for example to the sending of promotional communications with the help of automated means. All requests may be forwarded by email to: [info@avec-eventi.com](mailto:info@avec-eventi.com) by phone to: 0362/ 581579 , or by fax to 0362/1860074.

4) The data controller is: **AVEC SRL Via Lavoratori, Autobianchi, 1 - Lotto 9/Uff.14 - 20832 – Desio(MB)**

5) The person in charge of the processing is: **Volpe Angela**

The purchase of products and services marketed by AVEC SRL enables the latter to forward informative, advertising and promotional material relating to its sector of expertise, as set forth in point 1 d), by email or in printed form and also by means of automated systems, pursuant to point 6 provision 'Simplification of certain requirements in the public and private domain concerning data processing for administrative and accounting purposes' - 19 June 2008 *GazzettaUfficiale* (Official Bulletin) no. 152 dated 1 July 2008.

**If you do not wish to receive such material mark a cross in the box alongside and send this informative note back to us by email or fax duly signed and stamped.**

The interested party's right to object to the processing of personal data for the commercial purposes set forth in point 1 d), where it is carried out via automated contact means, shall also be extended to traditional means without prejudice to the possibility for the interested party to exercise this right in part, pursuant to art. 7, subsection 4, letter b), of the Code, that is, for example by only objecting to the sending of promotional communications with the help of automated means. Therefore, in the case of any objections, we invite you to specify in detail\*, whether you intend to totally object to the purposes in 1/e, or only to some of the methods (e.g. objection to sending by fax or email etc.). In case of a general objection then you will not be contacted personally, telephonically or by email in relation to the promotional activities and initiatives proposed by the company.

\*REMARKS: \_\_\_\_\_

Signature for acceptance \_\_\_\_\_