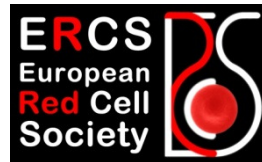




## PROGRAM - ERCS Pavia Webinar - September 11<sup>th</sup>, 2020



08:15 08:30 **Paola Bianchi, Giampaolo Minetti** WELCOME

Chair: **P. Bianchi**

08:30 08:55 **Anna Rita Migliaccio** cKIT signaling and metabolism in human erythroid cells  
08:55 09:20 **Antonella Ronchi** The Pleiotropic Effects of GATA1 and KLF1 in Physiological Erythropoiesis and in Dyserythropoietic Disorders  
09:20 09:45 **Maria Domenica Cappellini** New therapies for Hemoglobinopathies and dyserythropoiesis  
09:45 10:10 **José Carlos Segovia** Gene therapy trial for PK deficiency  
10:10 10:20 break

Chair: **G Minetti**

10:20 10:45 **Heimo Mairböurl** Removal of excess erythrocytes upon descent from high altitude: Lack of evidence for neocytolysis  
10:45 11:10 **Mauro Magnani** Red blood cell delivery of drugs and contrast agents: from the lab to the clinic  
11:10 11:30 **Lars Kaestner** Erythrocytes sedimentation rate as a new diagnostic biomarker for neuroacanthocytosis syndromes  
11:30 11:50 **Mélanie Robert** Comprehensive characterization of the physiology of red blood cells following hypotonic dialysis-based drug encapsulation process  
11:50 12:00 break

Chair: **L. Kaestner**

12:00 12:20 **Yuri Feldman** Oxygenation state of hemoglobin defines dynamics of water molecules in its vicinity  
12:20 12:40 **Marta Morado** Usefulness of NGS techniques for Pyruvate kinase deficiency (PKD) diagnosis in Spain  
12:40 13:00 **Minke Rab** Decreased activity and stability of red cell pyruvate kinase in sickle cell disease a potential target for therapy by AG-348 (Mitapivat), an allosteric activator of pyruvate kinase.  
13:00 13:15 **Ankie M. van Cromvoirt** Variance in RBC deformability, hydration and osmotic stability in healthy donors and factors contributing to it  
13:15 13:30 **Benedetta Porro** Red blood cell function and dysfunction: a new target in coronary artery diseases?

13:30 14:10 Lunch break

Chair: **A. Bogdanova**

- 14:10 14:30 **Donatienne Tyteca** The Horizon in Red Cell Research - Control of PIEZO1 activity by the membrane lipid environment
- 14:30 14:50 **David Monedero** Cation channel activity emergence during storage threatens red blood cell survival after transfusion
- 14:50 15:10 **Nicoletta Murciano** High-throughput automated patch-clamp as emerging technique for functional NMDA receptors assays in erythrocytes
- 15:10 15:30 **Catarina Jacinto Correia** Vitamin B12 Deficiency as a cause for clinical worsening of anaemia in a patient with compound Sickle Cell Trait and Glucose-6-Phosphate Dehydrogenase Deficiency: case report
- 15:30 15:50 **Sebastian Himbert** Super-Human Red Blood Cells to Fight Diseases
- 15:50 16:00 break

Chair: **G. Minetti**

- 16:00 16:25 **Velia Fowler** Red Blood Cell Membrane Architecture, Shape and Biomechanics: From the Micro- to Nanoscale
- 16:25 16:50 **Lionel Blanc** Navigating the curiosity of steroid resistance in Diamond Blackfan anemia at the erythroid progenitor level
- 16:50 17:15 **Josef Prchal** Thrombosis in PV and other Erythrocytoses
- 17:15 17:40 **Philip Low** A new therapy for sickle cell disease: Mechanism and early clinical data

17:40 18:40 SELECTED POSTER PRESENTATIONS

18:40 19:00 **G. Minetti, P Bianchi** CLOSING