SWG ON GRANULOCYTES AND MONOCYTES DISORDERS

FOCUS AND MISSION

The SWG is mainly focused on clinical and research programs on genetic and non genetic disorders in which functions and/or number of neutrophils is hampered. Due to the particular nature of these diseases, that often involve other cell lineages or functions (i.e. T, B and NK cells) and due to the tendency to develop cancers primarily, leukemias, link with marrow failure disorders and leukemogenesis may became, at a time, quite tight.
The mission is to improve and to voice knowledge on granulocytes/monocytes and related disorders potentiating exchange of scientific and clinical information and experience in the framework of coordinated actions . Attention is dedicated to juniors clinicians and researches through educational activities.

CHAIR AND AFFILIATION

Carlo Dufour, MD, Head Haematology Unit, IRCCS Istituto Giannina Gaslini, Via G. Gaslini 5, 16147 Genova, Italy. carlodufour@gaslini.org

BOARD MEMBERS AND TERMS

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The board has been appointed on June 2011, at the London Meeting. It has been recently proposed at the level of the SWG Unit that the Chair might continue up to June 2015. This proposal has been accepted by the Board and by Members of our SWG. The SWG re-applied to EHA in July 2015 and re-submission was accepted.

CONFLICT OF INTERESTS OF THE BOARD

None 2

MEMBERSHIP LIST WITH NAMES AND EMAIL ADDRESSES

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LIST OF ACTIVITIES
(SWG Meetings, invited lectures, social & public activities)

- Annual SWG Meeting at the 21st EHA congress, Copenhagen, June 2016.
- **Carlo Dufour:** gave 2 invited lectures in Italian Pediatric Hematology Centres.

Chaired sessions and gave talks in National Italian Meetings.
Chaired 1 session at the AA/MDS Meeting, Bethesda, March 2016
Chaired 1 session at the annual EBMT Congress 2016 in Valencia.
Gave 2 talks at the annual EBMT Congress 2015 in Valencia.

Chaired 1 session and gave 1 talk at the Educational on AA and BMF, EBMT, Paris November 2016
Chaired and gave 2 talks in Italian Centers

- **Jean Donadieu:** gave 1 talks at the SCNIR meeting, San Diego, December 2016 and in French Centres*.
- **Francesca Fioredda:** gave 1 talks at the SCNIR meeting, san Diego, December 2016. gave 1 talk at the Educational on AA and BMF, EBMT, Paris November 2016
- **Helen Papadaki:** gave 1 talk at the Annual EHA congress in Copenhagen, June 2016 and talks in Greek Centres*
- **Jan Palmblad**: gave talks in Swedish Centres *
- **Conni Zeidler**: gave talks in German Centres, Chaired the Annual LL Physician Meeting of the European Brench of the SCNIR*

**For these members, activities were derived by common initiatives at the level of SWG on Monocyte and Granulocyte disorders. Other Chairings and talks not related to these initiatives may be missing.*

LIST OF OTHERS SCIENTIFIC ACTIVITIES
(trials, collaborations and translational work).

- Annual LL Physician Meeting of the European Brench of the SCNIR that was attended by numerous member of the SWG on Granulocytes and monocytes disorders.

LIST OF GRANTS OBTAINED BY THE SWG
None 4

LIST OF PUBLICATION FROM OR RELATED TO THE SWG
year 2016 (papers from individual members/group)

DUFOUR:

Old and new faces of neutropenia in children.
Dufour C, Miano M, Fioredda F.
Haematologica. **2016** Jul;101(7):789-91.

Evaluation of energy metabolism and calcium homeostasis in cells affected by Shwachman-Diamond syndrome.
Ravera S, **Dufour C**, Cesaro S, Bottega R, Faleschini M, Cuccarolo P, Corsolini F, Usai C, Columbaro M, Cipolli M, Savoia A, Degan P, Cappelli E.
Sci Rep. **2016** May 5;6:25441

Somatic, hematologic phenotype, long-term outcome, and effect of hematopoietic stem cell transplantation. An analysis of 97 Fanconi anemia patients from the Italian national database on behalf of the Marrow Failure Study Group of the AIEOP (Italian Association of Pediatric Hematology-Oncology).
Svahn J, Bagnasco F, Cappelli E, Onofrillo D, Caruso S, Corsolini F, De Rocco D, Savoia A, Longoni D, Pillon M, Marra N, Ramenghi U, Farruggia P, Locasciulli A, Addari C, Cerri C, Mastrodicasa E, Casazza G, Verzegnassi F, Riccardi F, Haupt R, Barone A, Cesaro S, Cugno C, **Dufour C**.
Am J Hematol. **2016** Jul;91(7):666-71.

Characteristics and outcomes of aplastic anemia in HIV patients: a brief report from the severe aplastic anemia working party of the European Society of Blood and Bone Marrow Transplantation.

Pagliuca S, Gérard L, Kulasekararaj A, Eapen M, Boutboul D, Martin H, Salvino MA, Knol-Bout C, **Dufour C**, Peffault de Latour R, Marsh J.
Bone Marrow Transplant. **2016** Feb;51(2):313-5

Pearson Syndrome: A Retrospective Cohort Study from the Marrow Failure Study Group of A.I.E.O.P. (Associazione Italiana Emato-Oncologia Pediatrica).
Farruggia P, Di Cataldo A, Pinto RM, Palmisani E, Macaluso A, Valvo LL, Cantarini ME, Tornesello A, Corti P, Fioredda F, Varotto S, Martire B, Moroni I, Puccio G, Russo G, **Dufour C**, Pillon M.
JIMD Rep. **2016**;26:37-43.

DONADIEU:

Application of whole-exome sequencing to unravel the molecular basis of undiagnosed syndromic congenital neutropenia with intellectual disability.
Gauthier-Vasserot A, Thauvin-Robinet C, Bruel AL, Duffourd Y, St-Onge J, Jouan T, Rivière JB, Heron D, **Donadieu J**, Bellanné-Chantelot C, Briandet C, Huet F, Kuentz P, Lehalle D, Duplomb-Jego L, Gautier E, Maystadt I, Pinson L, Amram D, El Chehadeh S, Melki J, Julia S, Faivre L, Thevenon J.
Am J Med Genet A. 2017 Jan;173(1):62-71.

Altered chemotactic response to CXCL12 in patients carrying GATA2 mutations.
Maciejewski-Duval A, Meuris F, Bignon A, Aknin ML, Balabanian K, Faivre L, Pasquet M, Barlogis V, Fieschi C, Bellanné-Chantelot C, **Donadieu J**, Schlecht-Louf G, Marin-Esteban V, Bachelerie F.
J Leukoc Biol. **2016** Jun;99(6):1065-76.

FIOREDDA:

Long-term use of pegfilgrastim in children with severe congenital neutropenia: clinical and pharmacokinetic data.
Fioredda F, Lanza T, Gallicola F, Riccardi F, Lanciotti M, Mastrodicasa E, Signa S, Zanardi S, Calvillo M, **Dufour C**.
Blood. **2016** Oct 27;128(17):2178-2181

Candida infections in paediatrics: Results from a prospective single-centre study in a tertiary care children's hospital.
Mesini A, Bandettini R, Caviglia I, **Fioredda F**, Amoroso L, Faraci M, Mattioli G, Piaggio G, Risso FM, Moscatelli A, Loy A, Castagnola E.
Mycoses. 2017 Feb;60(2):118-123

Old and new faces of neutropenia in children.
Dufour C, Miano M, **Fioredda F**.
Haematologica. **2016** Jul;101(7):789-91.

PAPADAKI:

Cytogenetic evaluation of mesenchymal stem/stromal cells from patients with myelodysplastic syndromes at different time-points during ex vivo expansion.
Kouvidi E, Stratigi A, Batsali A, Mavroudi I, Mastrodemou S, Ximeri M, **Papadaki HA**, Pontikoglou CG.
Leuk Res. **2016** Apr;43:24-32

How we diagnose and treat neutropenia in adults.
Palmblad J, Nilsson CC, Höglund P, **Papadaki HA**.
Expert Rev Hematol. **2016** May;9(5):479-87

The Stat3/5 Signaling Biosignature in Hematopoietic Stem/Progenitor Cells Predicts Response and Outcome in Myelodysplastic Syndrome Patients Treated with Azacitidine.
Miltiades P, Lamprianidou E, Vassilakopoulos TP, Papageorgiou SG, Galanopoulos AG, Kontos CK, Adamopoulos PG, Nakou E, Vakalopoulou S, Garypidou V, Papaioannou M, Hatjiharissi E, **Papadaki HA**, Spanoudakis E, Pappa V, Scorilas A, Tsatalas C, Kotsianidis I; Hellenic MDS Study Group..
Clin Cancer Res. **2016** Apr 15;22(8):1958-68.

ZEIDLER:

GM-CSF treatment is not effective in congenital neutropenia patients due to its inability to activate NAMPT signaling.
Koch C, Samareh B, Morishima T, Mir P, Kanz L, **Zeidler C**, Skokowa J, Welte K.
Ann Hematol. 2017 Mar;96(3):345-353.

Role of CSF3R mutations in the pathomechanism of congenital neutropenia and secondary acute myeloid leukemia.
Klimiankou M, Mellor-Heineke S, **Zeidler C**, Welte K, Skokowa J.
Ann N Y Acad Sci. **2016** Apr;1370(1):119-25

Two cases of cyclic neutropenia with acquired CSF3R mutations, with 1 developing AML.
Klimiankou M, Mellor-Heineke S, Klimenkova O, Reinel E, Uenalan M, Kandabarau S, Skokowa J, Welte K, **Zeidler C**.
Blood. **2016** May 26;127(21):2638-41

ELANE mutant-specific activation of different UPR pathways in congenital neutropenia.
Nustede R, Klimiankou M, Klimenkova O, Kuznetsova I, **Zeidler C**, Welte K, Skokowa J.
Br J Haematol. **2016** Jan;172(2):219-27.

PALMPLAD:

Prevalence and clinical significance of neutropenia discovered in routine complete blood cell counts: a longitudinal study.
Andersen CL, Tesfa D, Siersma VD, Sandholdt H, Hasselbalch H, Bjerrum OW, Felding P, Lind B, Olivarius Nde F, **Palmblad J**.
J Intern Med. **2016** Jun;279(6):566-75.

How we diagnose and treat neutropenia in adults.
Palmblad J, Nilsson CC, Höglund P, Papadaki HA.
Expert Rev Hematol. **2016** May;9(5):479-87

LIST OF ACTIVITIES AND PRESENATIONS AT NATIONAL AND INTERNATIONAL MEETINGS RELATED TO THE NEUTROPENIA TOPIC

Carlo Dufour
- chaired the SWG on Granulocyte session and monocyte disorders at the 21th Annual EHA congress in Copenhagen in June 2016.
- Presented as invited speaker at two Italian meetings

Jean Donadieu*
- sent a report of the French Registry of Neutropenias to the web site of the www.ceredih.fr.

Francesca Fioredda
- presented two posters at the 21th Annual EHA congress in Copenhagen in June 2016.
- presented an oral at the SCINR meeting December 2016, San Diego

Helen Papadaki*
- chaired and presented at Greek meetings
- gave a talk at the SWG meeting on Granulocytes and Monocytes disorders, EHA Annual Congress Copenhagen June 2016

Cornelia Zeidler*
-chaired an presented at the 2016 Annual Meeting of the Severe Chronic Neutropenia International Registry (SCNIR), European branch.
-presented posters at the 21th Annual EHA congress in Copenhagen in June 2016.

**For these members, activities were derived by common initiatives at the level of SWG on Monocyte and Granulocyte disorders. Other activities on neutropenia may be missing.*
Genova, March 1st, 2017