

**19th Annual John Goldman Conference on  
Chronic Myeloid Leukemia: Biology and Therapy  
Estoril , Portugal  
October 12-15, 2017**

These abstracts are presented in alphabetical order according to the name of the first author.

**BIOLOGY POSTERS**

- POSTER 1: A novel cytogenetic abnormality in chronic myeloid leukemia  
t(9;12;22)(q12;q11;q11)  
*Dino Andrade Luís, André Barbosa Ribeiro, Ana Cristina Gonçalves, Nélia Jerónimo, Rodolfo Ferreira, Margarida Coucelo, Ana Teresa Simões, Luís Miguel Pires, Isabel Marques Carreira, Letícia Ribeiro, Emília Cortesão, Ana Bela Sarmento-Ribeiro*
- POSTER 2: Decrease of P-STAT2 in BCR-ABL positive cells and increase of P-STAT1 in JAK2V617F positive cells are the main determinants of IFN $\alpha$ -induced apoptosis  
*Julian Baumeister, Ivan Costa, Claudia Schubert, Tim H. Brümmendorf, Manuel Allhoff, Steffen Koschmieder, Mirle Schemionek, Kristina Feldberg, Nicolas Chatain*
- POSTER 3: BCR-ABL1 chimeric gene silencing using CRISPR-Cas9 technique: initial cell culture data  
*Prateek Bhatia, Aditya Singh*
- POSTER 4: IMPACT of the major transcript type BCR-ABL1 on the major molecular response in patients with CML  
*Yasmine Boukhatmi, Omar Abou, Djawed Guella, Badra Entasoltan, Mourad Nachi, Abdallah Hendel, Mohamed Amine Bekadja, Abdessamad Dali Ali*
- POSTER 5: Molecular study of BCR-ABL1 transcript: PLACE of RT-PCR multiplex  
*Yasmine Boukhatmi, Omar Abou, Abdessamad Dali Ali, Badra Entasoltan, Mourad Nachi, Abdallah Hendel, Mohamed Amine Bekadja, Djawed Guella*
- POSTER 6: The L-Amino Acid Oxidase from bothrops moojeni snake venom antitumor potential in chronic myeloid leukemia cell lines  
*Sandra Mara Burin, Maria Gabriela Berzoti-Coelho, Rogerio Bodini Benati, Luciana Ambrosio, Suely Vilela Sampaio, Fabíola Attié de Castro*
- POSTER 7: Mefloquine enhances the cytotoxic effects of tyrosine kinase inhibitors in blast phase chronic myeloid leukaemia by disrupting lysosome and inducing oxidative stress  
*May Anne Cheong, Charles Chuah, Wei Xiang, Hein Than, Colin Nicholas Sng, William Hwang, Yihui Lam*
- POSTER 8: Nilotinib and interferon- $\alpha$  combination treatment modulates innate and adaptive immune effector responses in CML patients  
*Jade Clarkson, Timothy P. Hughes, David Yeung, Agnes Yong, Amy Hughes*

- POSTER 9: Chronic myeloid leukemia treatment: no need for hydroxyurea cytoreductive pre-treatment and evidence of quantitative changes in the expression of the BCR-ABL1 transcript during the first two weeks of therapy  
*Federica Elia, Francesco Di Raimondo, Valentina Zammit, Adriana Puma, Fabio Stagno, Stefania Stella, Livia Manzella, Paolo Vigneri*
- POSTER 10: Assessment of minimal residual disease in chronic myeloid leukemia: a Tunisian experience  
*Moez Elloumi, Houda Kanoun, Rim Frikha, Hassen Kamoun*
- POSTER 11: Chronic myeloid leukemia in chronic phase: predictive value of the molecular response early  
*Badra Entasoltan, Omar Abou, Abdessamad Dali Ali, Yasmine Boukhatmi, Djawed Guella, Abdallah Hendel, Mohamed Amine Bekadja, Mourad Nachi*
- POSTER 12: Comparative transcriptomics of human CML and the SCL-t-TA/BCR-ABL double-transgenic mouse model  
*Lisa Evers, Mark Drotar, Cassie Clarke, Tessa L. Holyoake, Karen Dunn, David Vetrie, Russell Hyde, Eduardo Gómez-Castañeda, Mhairi Copland*
- POSTER 13: Genetic and pharmacological inhibition of NOX2 delays leukemic expansion in a murine model of BCR-ABL1<sup>+</sup> leukemia  
*Hanna Grauers Wiktorin, Malin Nilsson, Tina Nilsson, Johan Gustafsson, Ebru Aydin, Anders Ståhlberg, Fredrik Thorén, Kristoffer Hellstrand, Lars Palmqvist and Anna Martner*
- POSTER 14: Systematic analysis of BCR-ABL interactome  
*Tomas Gregor, Pavel Krejci, Silvie Foldynova-Trantirkova, Jiri Mayer, Jan Rynes, Lukas Trantirek*
- POSTER 15: Proteomic profile and molecular response in chronic myeloid leukemia patients  
*Attilio Guarini, Nicola Sgherza, Massimo Breccia, Angela Iacobazzi, Ines Abbate, Vito Michele Garrisi, Nicola Cascavilla*
- POSTER 16: Gentuzumab ozogamicin targets the BCR-ABL1 TK independent signature of CML stem and Progenitor cells  
*Lisa E.M. Hopcroft, Francesca Pellicano, David Vetrie, Tessa L. Holyoake, Russell Hyde, Eduardo Gómez-Castañeda, Simon Rogers, Heather G. Jorgensen, Helen Wheadon, Mhairi Copland, Sean Grimmond*
- POSTER 17: An atypical function for APOBEC3B in CML stem cells  
*Heather G. Jorgensen, S. Tiong Ong, Charles Chuah, G. Vignir Helgason, Naoto Takahashi, Ravi Bhatia, Lisa E.M. Hopcroft, Lorna Jackson, Francesca Pellicano, Simon Rogers, Tessa L. Holyoake, Axel Hillmer*
- POSTER 18: CML transmission via SOT, HSCT or blood transfusion from undiagnosed patient  
*Miłosz Kawa, Barbara Zdziarska, Ewa Pius-Sadowska, Zofia Litwińska, Krzysztof Lewandowski, Michał Gniot, Dorota Rogińska, Bartłomiej Baumert, Bogusław Machaliński*

- POSTER 19: Ectopic expression of snail and twist in Ph+ leukemia cells upregulates CD44 expression and alters their differentiation potential  
*Noa Kidan, Jamal Mahajna, Elizabeth Eshel, Martin Ruthardt, Hazem Khamaisi, Najib Dally*
- POSTER 20: Interferon  $\gamma$  upregulates BCL6 expression via STAT1 in imatinib treated chronic myeloid leukemia cells  
*Eva Klein, Leif Stenke, Marijke CL Kroehnke, Noemi Nagy, Pijus K Mandal, Lisa S Westerberg, Harsha S Madapura, Georg Klein, Tomasz Kallas, Magnus Bjorkholm, Ana Zovko, Marton Keszei, Fengtian Xue, Dorina Ujvari, Daniel Salamon, Sylvie Amu, Elham Yektaei-Karin, John S McMurray, Huimin Cheng*
- POSTER 21: PDGF and mirnas as significant players in angiogenesis in CML patients before and after initiation of TKI therapy  
*Karolina Łuczowska, Edyta Paczkowska, Anna Sobuś, Grzegorz Helbig, Zofia Litwińska, Ewa Pius-Sadowska, Bogusław Machaliński*
- POSTER 22: Resistance to imatinib involving Bcr-Abl independent activation of Erk1/2  
*Raquel Maia, Miguel Moreira, Flavia Vasconcelos, Danielle Cardoso-Silva*
- POSTER 23: Targeting wee1 kinase after g2/m checkpoint arrest induces apoptosis in cml progenitors  
*Manuela Mancini, Luana Bavaro, Fausto Castagnetti, Gianantonio Rosti, Gabriele Gugliotta, Giovanni Martinelli, Cecilia Monaldi, Margherita Martelli, Michele Cavo, Maria Alessandra Santucci, Simona Soverini, Sara De Santis*
- POSTER 24: Hippo pathway's regulation by Mir-141 and Mir-132 in chronic myeloid leukemia  
*Belinda Pinto Simões, Ana Paula Zambuzi Cardoso Marsola, Maria Gabriela Berzoti-Coelho, Fabíola Attié de Castro, Moysés Antonio Porto Soares, Sandra Mara Burin, Lorena Lobo Figueiredo-Pontes*
- POSTER 25: Distinct mechanisms are applied in de novo and aged Kcl-22 cells reflecting acquired and primary resistance to imatinib treatment respectively  
*Sarka Ransdorfova, Veronika Kanderova, Nikola Curik, Ondrej Toman, Katerina Machova Polakova, Tomas Kalina, Filipp Savvulidi, Jana Brezinova, Vaclava Polivkova, Jana Linhartova*
- POSTER 26: Splicing factor SRSF1 and its role in tyrosine kinase inhibitor resistance in chronic myeloid leukemia  
*Xavier Roca, Charles Chuah, S.Tiong Ong, Wen Chun Juan, Adrian Krainer, Joanna Sinnakannu, Olga Anczuków-Camarda*
- POSTER 27: Impact of gliptins and glitazones on the potential of natural killer cells to eradicate leukemic stem cells in chronic myeloid leukemia patients under tyrosine kinase therapy  
*Lenka Ruzickova, Vera Alves, Paulo Freitas-Tavares, José Rui Simplicio, Patrícia Couceiro, Paulo Rodrigues-Santos, Jani Sofia Almeida, Manuel Santos-Rosa*

- POSTER 28: Soluble immune checkpoints associated with good molecular response to therapy in chronic myeloid leukemia  
*Lenka Ruzickova, Patrícia Couceiro, Jani Sofia Almeida, José Rui Simplicio, Paulo Rodrigues-Santos, Vera Alves*
- POSTER 29: Montelukast, a cysteinyl leukotriene receptor antagonist, induces cell kill in CML via apoptosis  
*Daniel Salamon, Ana Zovko, Anders Nilsson, Elham Yektaei-Karin, Leif Stenke*
- POSTER 30: Frequency of TET2 gene mutation in MPNs patients  
*Ali Syed*
- POSTER 31: Bone morphogenic protein pathway inhibitors act synergistically with tyrosine kinase inhibitors to target chronic myeloid leukaemia stem cells  
*Parto Toofan, Helen Wheadon, Mhairi Copland, Heather Morriso*
- POSTER 32: Cysteinyl leukotriene signaling linked to growth of CML cells *in vitro*  
*Ana Zovko, Leif Stenke, Daniel Salamon, Elham Yektaei-Karin, Anders Nilsson*