

## Di Croce's publication list

### Manuscripts published or in press:

1. Rocha-Viegas L, Villa R, Gutierrez A, Iriando O, Shiekhattar R, and **Di Croce L.** (2014) Role of UTX in RAR-mediated Gene Regulation in Leukemia. **Mol Cell Biol**, 34, 3765-75.  
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*Spotlight: Mol Cell Biol 34:3559.*
2. Aloia L, Di Stefano B, Sessa A, Morey L, Gutierrez A, Cozzuto L, Benitah SA, Graf T, Broccoli V, and **Di Croce L.** (2014) Zrf1 is required to establish and maintain neural progenitor identity. **Genes & Develop**, 28, 182-97.
3. Aguilar H, Urruticoechea A, Halonen P, Kiyotani K, Mushiroda T, Barril X, Serra-Musach J, Islam A, Caizzi L, **Di Croce L.**, ... , and Pujana M. (2014) VAV3 mediates resistance to breast cancer endocrine therapy. **Breast Cancer Res**, 28, R53.
4. Caizzi L, Ferrero G, Cutrupi S, Cordero F, Ballaré C, Miano V, Reineri S, Ricci L, Friard O, Testori A, Corà D, Caselle M, **Di Croce L.**, De Bortoli M. (2014) Genome-wide activity of unliganded Estrogen Receptor  $\alpha$  in breast cancer cells. **PNAS**, 111, 4892-7.
5. **Di Croce L** and Helin K (2013) Transcriptional regulation by Polycomb group proteins. **Nat. Struct. Mol. Biol.**, 20, 1147-1155.
6. Demajo S, Uribealago I, Gutiérrez A, Ballaré C, Capdevila S, Roth M, Zuber J, Martín-Caballero J, **Di Croce L.** (2014) ZRF1 controls the retinoic acid pathway and regulates leukemogenic potential in acute myeloid leukemia. **Oncogene**, in press.
7. Beà S, Valdés-Mas R, ... **Di Croce L.**, ... and Campos E. (2013) Landscape of somatic mutations and clonal evolution in mantle cell lymphoma. **PNAS**, 110, 18250-5.
8. Simboeck E and **Di Croce L.** (2013) Novel insights on p16INK4a regulation in cellular senescence. **Aging**, 5, 590-91.
9. Simboeck E, Cozzuto L, Beringer M, Gutierrez A, Keyes W, and **Di Croce L.** (2013) DPY30 Regulates Pathways in Cellular Senescence through ID Protein Expression. **EMBO J**, 32, 221730.
10. Aloia L, Di Stefano B, and **Di Croce L.** (2013) Polycomb complexes in stem cells and embryonic development. **Development**, 140, 2525-34.
11. Mulero MC, Ferres-Marco D, Pecoraro M, Bellora N, **Di Croce L.**, Hoffmann A, Keyes B, Dominguez M, Villà-Freixa J, Bigas A, Espinosa L. (2013) Chromatin-bound I $\kappa$ B $\alpha$  is a modulator of Polycomb-dependent repression. **Cancer Cell**, 24, 151-166.  
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ND Perkins: Emerging from NF- $\kappa$ B's Shadow, SUMOylated I $\kappa$ B $\alpha$  Represses Transcription. **Cancer Cell**, 24, 139-140.
12. Wierer M, Verde G, Pisano P, Molina H, **Di Croce L.**, and Beato M (2013) PLK1 signaling in breast cancer cells cooperates with estrogen receptor-dependent gene transcription. **Cell Reports**, 3, 2021-32.
13. Morey L, Aloia L, Cozzuto L, Benitah SA, and **Di Croce L.** (2013) RYBP and Cbx7 define specific biological functions of PRC1 complexes in mouse embryonic stem cells. **Cell Reports**, 3, 60-69.  
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SA Turner & AP Bracken: A "Complex" Issue: Deciphering the Role of Variant PRC1 in ESCs. **Cell Stem Cell**, 12, 145-146.

14. Ribeiro JD, Morey M, Mas A, Gutierrez A, Luis NM, Mejetta S, Richly H, Benitah SA, Keyes WM, and **Di Croce L.** (2013) ZRF1 controls oncogene-induced senescence through the INK4-ARF locus. **Oncogene**, 32, 2161–2168.
15. Soncini M, Santoro F, Gutierrez A, Frigè G, Romanenghi M, Botrugno OA, Pallavicini I, Pelicci P, **Di Croce L**, Minucci S. (2013) The DNA demethylating agent decitabine activates the TRAIL pathway and induces apoptosis in acute myeloid leukemia. **Biochim Biophys Acta**, 1832, 114-120.
16. Ballare C, Lange M, Lapinaite A, Martin GM, Morey L, Pascual G, Liefke R, Simon B, Shi Y, Gozani O, Carlomagno T, Benitah SA, and **Di Croce L.** (2012) Phf19 links methylated lysine 36 of histone H3 to regulation of Polycomb activity. **Nat. Struct. Mol. Biol.**, 19, 1257-65.  
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J AlHaj Abed & RS Jones: H3K36me3 key to Polycomb-mediated gene silencing in lineage specification. *Nat. Struct. Mol. Biol.*, 19, 1214-15.
17. Luis NM, Morey L, **Di Croce L**, Benitah SA. (2012) Polycomb in Stem Cells: PRC1 Branches Out. **Cell Stem Cell**, 11, 16-21.
18. Uribealago I, Benitah SA, and **Di Croce L.** (2012) From oncogene to tumor suppressor: Myc's dual role in leukemia. **Cell Cycle**, 11, 1757-64.
19. Herranz N, Dave N, Lorenz-Fonfría V, Millanes-Romero A, Morey L, Jeronimo C, **Di Croce L**, García de Herreros A, and Peiró S. (2012) Lysil Oxidase Like 2 LOXL2 is a Histone H3 lysine 4 deaminase. **Mol Cell**, 46, 369–376.  
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Camahort R, and Cowan CA. Cbx Proteins Help ESCs Walk the Line between Self-Renewal and Differentiation. *Cell Stem Cell*, 10, 4-6.
22. Uribealago I, Ballaré C, and **Di Croce L.** (2012) Polycomb regulates NF-κB signalling through miRNA in cancer. **Cancer Cell**, 21, 5-7.
23. Proto MC, Gazzero P, **Di Croce L**, Santoro A, Malfitano AM, Pisanti S, Laezza C, Bifulco M. (2012) Interaction of endocannabinoid system and steroid hormones in the control of colon cancer cell growth. **J Cell Physiol**, 227, 250-58.
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28. Simboeck E, Ribeiro JD, Teichmann S, **Di Croce L**. (2011) Epigenetics and senescence: Learning from the INK4-ARF locus. *Biochem Pharmacol*, 82, 1361-70.
29. Richly H, Aloia L, **Di Croce L**. (2011) Roles of the Polycomb group proteins in stem cells and cancer. *Cell Death Dis*, 2, e204.
30. Luis NM, Morey L, Mejetta S, Pascual G, Janich P, Kuebler B, Roma G, Nascimento E, Frye M, **Di Croce L**, Benitah SA. (2011) Regulation of human epidermal stem cell proliferation and senescence requires polycomb- dependent and -independent functions of cbx4. *Cell Stem Cell*, 9, 233-46.
31. Mejetta S, Morey L, Pascual G, Kuebler B, Mysliwiec MR, Lee Y, Shiekhattar R, **Di Croce L**, and Benitah SA. (2011) Jarid2 regulates mouse epidermal stem cell activation and differentiation. *EMBO J*, 30, 3635-46.
32. Richly H, and **Di Croce L**. (2011) The flip side of the coin: Role of ZRF1 and histone H2A ubiquitination in transcriptional activation. *Cell Cycle*, 10, 745-50.
33. Lange M, Demajo S, Jain P, **Di Croce L**. (2011) Combinatorial assembly and function of chromatin regulatory complexes. *Epigenomics*, 3, 567-580.
34. Uribealago I, and **Di Croce L**. (2011) Dynamics of epigenetic modifications in leukemia. *Briefings in Functional Genomics*, 10, 18-29.
35. Richly H, Rocha-Viegas L, Domingues Ribeiro J, Demajo S, Gundem G, Nakagawa T, Rospert S, Lopez-Bigas N, Ito T, and **Di Croce L**. (2010) Transcriptional activation of Polycomb-repressed genes by the H2A-ubiquitin binding protein ZRF1. *Nature*, 468, 1124-28.
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37. Simboeck E and **Di Croce L**. (2010) HDAC1, a novel marker for benign teratomas. *EMBO J*, 29, 3893-95.
38. Richly H, Lange M, Simboeck E, **Di Croce L**. (2010) Setting and resetting of epigenetic marks in malignant transformation and development. *Bioessays*, 32, 669-79.
39. Buschbeck M, and **Di Croce L**. (2010) Approaching the molecular and physiological function of macroH2A variants. *Epigenetics*, 5, 118-23.
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45. **Di Croce L.** and Shiekhatar R. (2008) Thrilling transcription through threonine phosphorylation. *Nat Cell Biology,* 10, 5-6.
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