**KATIA BASSO**

**Overview**

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**Academic Appointments**

* Associate Professor of Pathology & Cell Biology

**Research**

Katia Basso studies the process of differentiation of germinal center B cells and the mechanisms of malignant transformation leading to lymphomagenesis. Her interest is in dissecting the transcriptional networks that drive normal B cell differentiation and are hijacked in lymphomas. She integrates omics technologies, molecular and cellular biology, and in-vivo modeling to characterize normal B cells and their malignant counterparts. Her research informs on lymphoma features and dependences that impact diagnostics and therapeutics.

**Selected Publications**

1. **Single-cell analysis of germinal-center B cells informs on lymphoma cell of origin and outcome**Holmes AB, Corinaldesi C, Shen Q, Kumar R, Compagno N, Wang Z, Nitzan M, Grunstein E, Pasqualucci L, Dalla-Favera R, Basso K  
   J Exp Med. 2020.  
   PMID: 32603407, DOI: 10.1084/jem.20200483
2. **MEF2B Instructs Germinal Center Development and Acts as an Oncogene in B Cell Lymphomagenesis**Brescia P, Schneider C, Holmes AB, Shen Q, Hussein S, Pasqualucci L, Basso K, Dalla-Favera R  
   Cancer Cell. 2018.  
   PMID: 30205047, DOI: 10.1016/j.ccell.2018.08.006
3. **FBXO11 inactivation leads to abnormal germinal-center formation and lymphoproliferative disease**Schneider C, Kon N, Amadori L, Shen Q, Schwartz FH, Tischler B, Bossennec M, Dominguez-Sola D, Bhagat G, Gu W, Basso K, Dalla-Favera R  
   Blood. 2016.  
   PMID: 27166359, DOI: 10.1182/blood-2015-11-684357
4. **The FOXO1 Transcription Factor Instructs the Germinal Center Dark Zone Program**Dominguez-Sola D, Kung J, Holmes AB, Wells VA, Mo T, Basso K, Dalla-Favera R  
   Immunity. 2015.  
   PMID: 26620759, DOI: 10.1016/j.immuni.2015.10.015
5. **Germinal centres and B cell lymphomagenesis**Basso K, Dalla-Favera R  
   Nat Rev Immunol. 2015.  
   PMID: 25712152, DOI: 10.1038/nri3814
6. **MicroRNA 28 controls cell proliferation and is down-regulated in B-cell lymphomas**Schneider C, Setty M, Holmes AB, Maute RL, Leslie CS, Mussolin L, Rosolen A, Dalla-Favera R, Basso K  
   Proc Natl Acad Sci USA. 2014.  
   PMID: 24843176, DOI: 10.1073/pnas.1322466111
7. **MEF2B mutations lead to deregulated expression of the oncogene BCL6 in diffuse large B cell lymphoma**Ying CY, Dominguez-Sola D, Fabi M, Lorenz IC, Hussein S, Bansal M, Califano A, Pasqualucci L, Basso K, Dalla-Favera R  
   Nat Immunol. 2013.  
   PMID: 23974956, DOI: 10.1038/ni.2688
8. **tRNA-derived microRNA modulates proliferation and the DNA damage response and is down-regulated in B cell lymphoma**Maute RL, Schneider C, Sumazin P, Holmes A, Califano A, Basso K, Dalla-Favera R  
   Proc Natl Acad Sci USA. 2013.  
   PMID: 23297232, DOI: 10.1073/pnas.1206761110
9. **BCL6 positively regulates AID and germinal center gene expression via repression of miR-155**Basso K, Schneider C, Shen Q, Holmes AB, Setty M, Leslie C, Dalla-Favera R  
   J Exp Med. 2012.  
   PMID: 23166356, DOI: 10.1084/jem.20121387
10. **Roles of BCL6 in normal and transformed germinal center B cells**Basso K, Dalla-Favera R  
    Immunol Rev. 2012.  
    PMID: 22500840, DOI: 10.1111/j.1600-065X.2012.01112.x
11. **Integrated biochemical and computational approach identifies BCL6 direct target genes controlling multiple pathways in normal germinal center B cells**Basso K, Saito M, Sumazin P, Margolin AA, Wang K, Lim WK, Kitagawa Y, Schneider C, Alvarez MJ, Califano A, Dalla-Favera R  
    Blood. 2010.  
    PMID: 19965633, DOI: 10.1182/blood-2009-06-227017
12. **Toward a systems biology approach to investigate cellular networks in normal and malignant B cells**Basso K  
    Leukemia. 2009.  
    PMID: 19194469, DOI: 10.1038/leu.2009.4
13. **Identification of the human mature B cell miRNome**Basso K, Sumazin P, Morozov P, Schneider C, Maute RL, Kitagawa Y, Mandelbaum J, Haddad J, Chen CZ, Califano A, Dalla-Favera R  
    Immunity. 2009.  
    PMID: 19446474, DOI: 10.1016/j.immuni.2009.03.017
14. **Reverse engineering of regulatory networks in human B cells**Basso K, Margolin AA, Stolovitzky G, Klein U, Dalla-Favera R, Califano A  
    Nat Genet. 2005.  
    PMID: 15778709, DOI: 10.1038/ng1532
15. **Tracking CD40 signaling during germinal center development**Basso K, Klein U, Niu H, Stolovitzky GA, Tu Y, Califano A, Cattoretti G, Dalla-Favera R  
    Blood. 2004.  
    PMID: 15331443, DOI: 10.1182/blood-2003-12-4291