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From microenvironment to epigenetics in endothelial cells

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From microenvironment to epigenetics in endothelial cells

1. The functionality of a biological system derives from the constant crosstalk and mutual adaptation of a cell and its environment. (this Thesis)
2. A living cell is where the nature and nurture meet: the cell as a dynamic system is shaped by the cellular memory as well as its environment. (Regan and Aird, *Circulation Research* 2012)
3. Targeting of the epigenetic enzymes is a powerful tool to modify cellular phenotypes, aiding the regenerative medicine approaches. (this Thesis)
4. The conserved epigenetic mechanisms is what guards cellular identities, even if the upstream triggers of the phenotypical changes vary. (Apostolou and Hochedlinger, *Nature* 2013)
5. EZH2 provides a functional link between the microenvironment and the epigenetics in endothelial cells. (this Thesis)
6. Appropriate computational strategies are necessary not only to build predictive models and generate hypotheses, but also to accommodate, integrate and interpret the contemporary biological data, which grow both in volumes and in complexity. (this Thesis; Regan and Aird, *Circulation Research* 2012; The ENCODE project consortium, *Nature* 2012)
7. Genuine curiosity makes a good scientist, but the ability to promote one's work makes a successful one. (Maleszewska, *Nature* 2013)
8. Basic research has proven over and over to be the lifeline of practical advances in medicine. (Arthur Kornberg)
9. Yet mark his perfect self-contentment, and hence learn this lesson, that to be self-contented is to be vile and ignorant, and that to aspire is better than to be blindly and impotently happy. (E.A. Abbott "Flatland. A Romance of Many Dimensions")
10. Rule number one: never let people or situations break you. (Maria Skłodowska-Curie, own translation after "Genius and obsession" by B. Goldsmith)
11. Life is like an $n=1$ experiment which you will never get to replicate. Still you wish it turns out significant.