

PROPOSITIONS

belonging to the thesis

KLF1 in Erythroid Differentiation: An essential transcription factor in health and disease

1. KLF1 acts together with BCL11A to ensure correct developmental timing of hemoglobin switching (*this thesis*).
2. KLF1 *Nan* mice display delayed erythroid maturation (*this thesis*).
3. The nuclear exportin XPO7 is a KLF1 target gene required for nuclear condensation and enucleation (*this thesis and Hattangadi et al (2014) Blood 124:1931-1940*).
4. Expression of BSDC1, a protein localized at the rim of the Golgi apparatus, increases sharply during erythroid differentiation (*this thesis*).
5. A reproducible and reliable strategy for purification of KLF1 complexes from erythroid cells is still elusive (*this thesis*).
6. Although the human β -globin gene was one of the first genes cloned, β -thalassemia is still a pressing medical problem with only limited therapeutic options available to the patients (*Rivella, S. and Rachmilewitz, E. (2009) Expert Rev Hematol. 2: 685*).
7. Anti-vaccine parents live in a world in which their child faces only very slight risks of contracting infectious disease, due to the decisions of all the other socially responsible parents who do vaccinate their children (*Robert Stoker, Associate Professor of Political Science and Public Policy at George Washington University*).
8. There is a lot you can do without animals. [...] But real diseases are diseases of the whole body, and can only be studied in the whole body (*Roger Morris, Professor of Molecular Neurobiology at King's College London*).
9. Antimicrobial resistance (AMR) is an increasingly serious threat to global public health. A post-antibiotic era, in which common infections and minor injuries can kill, is a very real possibility for the 21st century (*WHO, Antimicrobial resistance: global report on surveillance 2014, April 2014, ISBN: 9789241564748*).
10. Fatti non foste a viver come bruti, ma per seguir virtute e canoscenza - You were not made to live as brutes, but to follow virtue and knowledge- (*Dante Alighieri, Divina Commedia, Inferno canto XXVI, 119-120*).
11. Puoi andare ovunque nel mondo, ma senza radici, affondi - You can go everywhere in the world, but without roots, you will sink - (*Eleonora Abbagnato, Étoile at the Paris Opera Ballet*).