



Gabriella Martyn

Postdoctoral Scholar, Genetics

Bio

HONORS AND AWARDS

- The Walter V. and Idun Berry Postdoctoral Fellowship Program, Stanford University (2021-2024)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University Of New South Wales (2018)
- Bachelor of Science, University Of New South Wales (2013)
- Doctor of Philosophy, The University of New South Wales, Sydney Australia , Molecular Genetics (2018)
- Bachelor of Science (Hons), The University of New South Wales, Sydney Australia , Molecular Biology (2013)

STANFORD ADVISORS

- Jesse Engreitz, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Phenotypic screen for oxygen consumption rate identifies an anti-cancer naphthoquinone that induces mitochondrial oxidative stress.** *Redox biology*
Byrne, F. L., Olzomer, E. M., Marriott, G. R., Quek, L. E., Katen, A., Su, J., Nelson, M. E., Hart-Smith, G., Larance, M., Sebesfi, V. F., Cuff, J., Martyn, G. E., Childress, et al
2020; 28: 101374
- **A natural regulatory mutation in the proximal promoter elevates fetal globin expression by creating a de novo GATA1 site.** *Blood*
Martyn, G. E., Wienert, B., Kurita, R., Nakamura, Y., Quinlan, K. G., Crossley, M.
2019; 133 (8): 852-856
- **Wake-up Sleepy Gene: Reactivating Fetal Globin for #-Hemoglobinopathies.** *Trends in genetics : TIG*
Wienert, B., Martyn, G. E., Funnell, A. P., Quinlan, K. G., Crossley, M.
2018; 34 (12): 927-940
- **Natural regulatory mutations elevate the fetal globin gene via disruption of BCL11A or ZBTB7A binding.** *Nature genetics*
Martyn, G. E., Wienert, B., Yang, L., Shah, M., Norton, L. J., Burdach, J., Kurita, R., Nakamura, Y., Pearson, R. C., Funnell, A. P., Quinlan, K. G., Crossley, M.
2018; 50 (4): 498-503
- **KLF1 drives the expression of fetal hemoglobin in British HPFH.** *Blood*
Wienert, B., Martyn, G. E., Kurita, R., Nakamura, Y., Quinlan, K. G., Crossley, M.
2017; 130 (6): 803-807
- **The regulation of human globin promoters by CCAAT box elements and the recruitment of NF-Y.** *Biochimica et biophysica acta. Gene regulatory mechanisms*
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2017; 1860 (5): 525-536

- **Transcription factors LRF and BCL11A independently repress expression of fetal hemoglobin.** *Science (New York, N.Y.)*
Masuda, T., Wang, X., Maeda, M., Canver, M. C., Sher, F., Funnell, A. P., Fisher, C., Suci, M., Martyn, G. E., Norton, L. J., Zhu, C., Kurita, R., Nakamura, et al
2016; 351 (6270): 285-9
- **Differential regulation of the β -globin locus by Krüppel-like Factor 3 in erythroid and non-erythroid cells.** *BMC molecular biology*
Funnell, A. P., Vernimmen, D., Lim, W. F., Mak, K. S., Wienert, B., Martyn, G. E., Artuz, C. M., Burdach, J., Quinlan, K. G., Higgs, D. R., Whitelaw, E., Pearson, R. C., Crossley, et al
2014; 15: 8