

References

- Agrawal, R. K., Patel, R. K., Shah, V., Nainiwal, L., & Trivedi, B. (2013). hydroxyurea in Sickle Cell Disease: Drug Review. In *Indian Journal of Hematology and Blood Transfusion* (Vol. 30, Issue 2, pp. 91–96). Springer Science and Business Media LLC. <https://doi.org/10.1007/s12288-013-0261-4>
- Brender, J. R., & Zhang, Y. (2015). Predicting the Effect of Mutations on Protein-Protein Binding Interactions through Structure-Based Interface Profiles. In R. L. Jernigan (Ed.), *PLOS Computational Biology* (Vol. 11, Issue 10, p. e1004494). Public Library of Science (PLOS). <https://doi.org/10.1371/journal.pcbi.1004494>
- Charache, S., Dover, G., Moore, R., Eckert, S., Ballas, S., Koshy, M., Milner, P., Orringer, E., Phillips, G. J., & Platt, O. (1992). hydroxyurea: effects on hemoglobin F production in patients with sickle cell anemia [see comments]. In *Blood* (Vol. 79, Issue 10, pp. 2555–2565). American Society of Hematology. <https://doi.org/10.1182/blood.v79.10.2555.2555>
- Gardner, R. V. (2018). Sickle Cell Disease: Advances in Treatment. In *Ochsner Journal* (Vol. 18, Issue 4, pp. 377–389). Ochsner Journal. <https://doi.org/10.31486/toj.18.0076>
- Gräslund, A., Sahlin, M., & Sjöberg, B. M. (1985). The tyrosyl free radical in ribonucleotide reductase. In *Environmental Health Perspectives* (Vol. 64, pp. 139–149). Environmental Health Perspectives. <https://doi.org/10.1289/ehp.64-1568609>
- Illinois, U. of. (2021, March 12). *hydroxyurea: Side effects, dosage, uses, and more*. Healthline. Retrieved November 23, 2022, from <https://www.healthline.com/health/drugs/hydroxyurea-oral-capsule#side-effects>
- Miller, R., Ewy, W., Corrigan, B. W., Ouellet, D., Hermann, D., Kowalski, K. G., Lockwood, P., Koup, J. R., Donevan, S., El-Kattan, A., Li, C. S., Werth, J. L., Feltner, D. E., & Lalonde, R. L. (2005). How Modeling and Simulation Have Enhanced Decision Making in New Drug Development. In *Journal of Pharmacokinetics and Pharmacodynamics* (Vol. 32, Issue 2, pp. 185–197). Springer Science and Business Media LLC. <https://doi.org/10.1007/s10928-005-0074-7>
- Olowoyeye, A., & Okwundu, C. I. (2009). Gene therapy for sickle cell disease. In A. Olowoyeye (Ed.), *Cochrane Database of Systematic Reviews*. John Wiley & Sons, Ltd. <https://doi.org/10.1002/14651858.cd007652>
- Safiri, S., Kolahi, A.-A., Noori, M., Nejadghaderi, S. A., Karamzad, N., Bragazzi, N. L., Sullman, M. J. M., Abdollahi, M., Collins, G. S., Kaufman, J. S., & Grieger, J. A. (2021). Burden of anemia and its underlying causes in 204 countries and territories, 1990–2019: results from the Global Burden of Disease Study 2019. In *Journal of Hematology & Oncology* (Vol. 14, Issue 1). Springer Science and Business Media LLC. <https://doi.org/10.1186/s13045-021-01202-2>
- Sickle cell disease*. Johns Hopkins Medicine. (2019). Retrieved October 9, 2022, <https://www.hopkinsmedicine.org/health/conditions-and-diseases/sickle-cell-disease>

- Singh, A., & Xu, Y.-J. (2016). The Cell Killing Mechanisms of hydroxyurea. In *Genes* (Vol. 7, Issue 11, p. 99). MDPI AG. <https://doi.org/10.3390/genes7110099>
- Smith-Whitley, K. (2014). Reproductive issues in sickle cell disease. In *Hematology* (Vol. 2014, Issue 1, pp. 418–424). American Society of Hematology. <https://doi.org/10.1182/asheducation-2014.1.418>
- Uhlen, U., Uhlin, T., & Eklund, H. (1993). Crystallization and crystallographic investigations of ribonucleotide reductase protein R1 from *Escherichia coli*. In *FEBS Letters* (Vol. 336, Issue 1, pp. 148–152). Wiley. [https://doi.org/10.1016/0014-5793\(93\)81629-e](https://doi.org/10.1016/0014-5793(93)81629-e)
- Yerien, D. E., Bonesi, S., & Postigo, A. (2016). Fluorination methods in drug discovery. In *Organic & Biomolecular Chemistry* (Vol. 14, Issue 36, pp. 8398–8427). Royal Society of Chemistry (RSC). <https://doi.org/10.1039/c6ob00764c>