(1) G. L. D’Adamo, J. T. Widdop, and E. M. Giles, “The future is now? clinical and translational aspects of ‘OMICS’ technologies,” *Immunology & Cell Biology*, vol. 99, no. 2, pp. 168–176, 2020.

(2) This review discusses the integration of “omics” technologies into clinical practice and the potential for precision medicine. (3) This review aims to explore the areas of clinical medicine where omics and big data are already shaping clinical management or are on the cusp of doing so. (4) The review covers omics in oncology, complex diseases, microbiome research, and the challenges ahead for clinicians and researchers. (5) This review provides an overview of how omics technologies are used in clinical practice and could help understand how different molecular data can be used to identify diabetic retinopathy. (6) The review acknowledges practical and ethical challenges to implementing omics technologies in clinical practice. (7) The review concludes that while there is enormous potential for omics technologies in clinical medicine, there are also significant challenges that policymakers, funders, and clinicians must address. (8) This work illuminates our topic by providing an overview of how omics technologies are used in clinical practice and could provide insight into how different molecular data can be used to identify diabetic retinopathy.