Daniel Brock’s Publications

2024 Papers:

* Mondal et al1
* Brock et al2
* Giarmarco et al3

2023 Papers:

* Yang et al4

2022 Papers:

* Smith et al5
* Cleghorn et al6

2020 Papers:

* Giarmarco et al7

2019 Papers:

* Hutto et al8

Works Cited

1. Mondal AK, Brock DC, Rowan S, et al. Selective transcriptomic dysregulation of metabolic pathways in liver and retina by short- and long-term dietary hyperglycemia. *iScience*. 2024;27(2). doi:10.1016/j.isci.2024.108979

2. Brock DC, Wang M, Hussain HMJ, et al. Comparative analysis of in-silico tools in identifying pathogenic variants in dominant inherited retinal diseases. *Human Molecular Genetics*. Published online March 7, 2024:ddae028. doi:10.1093/hmg/ddae028

3. Giarmarco M, Seto J, Brock D, Brockerhoff S. Spatial detection of mitochondrial DNA and RNA in tissues. *Front Cell Dev Biol*. 2024;12. doi:10.3389/fcell.2024.1346778

4. Yang ZH, Gorusupudi A, Lydic TA, et al. Dietary fish oil enriched in very-long-chain polyunsaturated fatty acid reduces cardiometabolic risk factors and improves retinal function. *iScience*. 2023;26(12):108411. doi:10.1016/j.isci.2023.108411

5. Smith AJ, Advani J, Brock DC, et al. GATD3A, a mitochondrial deglycase with evolutionary origins from gammaproteobacteria, restricts the formation of advanced glycation end products. *BMC Biology*. 2022;20(1):68. doi:10.1186/s12915-022-01267-6

6. Cleghorn WM, Burrell AL, Giarmarco MM, et al. A highly conserved zebrafish IMPDH retinal isoform produces the majority of guanine and forms dynamic protein filaments in photoreceptor cells. *Journal of Biological Chemistry*. 2022;298(1). doi:10.1016/j.jbc.2021.101441

7. Giarmarco MM, Brock DC, Robbings BM, et al. Daily mitochondrial dynamics in cone photoreceptors. *Proceedings of the National Academy of Sciences*. 2020;117(46):28816-28827. doi:10.1073/pnas.2007827117

8. Hutto RA, Bisbach CM, Abbas F, et al. Increasing Ca2+ in photoreceptor mitochondria alters metabolites, accelerates photoresponse recovery, and reveals adaptations to mitochondrial stress. *Cell Death Differ*. 2020;27(3):1067-1085. doi:10.1038/s41418-019-0398-2