

Comparison of spontaneous Raman spectrometers

We tested several spectrometers for spontaneous Raman spectroscopy as a rapid biological phenotyping tool. We analyzed the spectra from each instrument, comparing the resolution, signal-to-noise ratio, and ability to resolve peaks to determine the best fit for our research.

Contributors (A-Z)

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This is a notebook pub stub!

We're experimenting with a new publishing format that we call a "**notebook pub**" [1]. Instead of coding and documenting our analysis in Python notebooks and then writing up a pub that contains all the same information with links out to GitHub, **we're turning the analysis into the pub**. We've developed a notebook pub template that renders the final content (narrative, code, tables, and figures) as a webpage and makes all the underlying code fully available. This means the entire product is completely reproducible. And we encourage you to reproduce it! Check out [answers to FAQs](#) on all of this, instructions on [reproducing the pub](#), and info on [how you can contribute](#).

In the future, we hope to host notebook pubs directly on PubPub. Until that's possible, we'll create stubs like this with key metadata like the DOI, author roles, citation information, and an external link to the pub itself.

View the notebook

The **full notebook pub** is available [here](#).

The **source code** to generate it is available in [this GitHub repo](#) (DOI: [10.5281/zenodo.15029361](https://doi.org/10.5281/zenodo.15029361)).

References

- 1 Avasthi P, Bigge BM, Hochstrasser ML, Kiefl E, Roth R, Sabbagh U, York R. (2025). Closing the divide between analysis and publication: The notebook pub. <https://doi.org/10.57844/ARCADIA-CA21-23BB>
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