

## C9919 Being a Scientist (Autumn 2024)

### Final exam requirement, due by January 15, 2025

Write a 2-page report on **any one** of the topics below. To get credit for the course you should submit the report ((typed in word and saves in pdf format) to [murthy1@miami.edu](mailto:murthy1@miami.edu) by January 15, 2025.

- Polywater-is it real?
- Nature of light according to Michael Faraday and J. C. Maxwell
- The two equations (a)  $E=mc^2$  and (b)  $E=h\nu$  as per Einstein and Planck describes the nature of light. Taking these into consideration describe what is light (2 page)
- Birth and death of phlogiston theory
- Lavoisier legacy to chemistry
- Humphry Davy's legacy to chemistry
- In the discovery of the structure of DNA, in addition to the three who got the Nobel Prize, two others (one male and one female) played major roles. Name them and describe their contributions.