

About me

My name is Dr. Daniel Fernandez. I have a bachelor's degree in chemistry and a masters and Ph.D. in nanoscience and nanotechnology. I have a strong interest in plants and hydroponic crops. When I started my degree I became fascinated by the fact that plants could be grown without soil with the mere use of synthetic chemicals and that I could perfectly control the concentration and the nature of all the nutrients I gave to my plants. Perhaps the most incredible thing about hydroponics is not only that you can imitate the plant's natural environment but that you can improve it to obtain higher yields, better tasting crops, less water use and less run-off pollution. I honestly think that hydroponics are the true solution to world hunger and that the massive use of cheap hydroponic passive systems in third world countries - especially in those without a lot of water or arable soil - will mark the start of a new era for the world's starving population.

My blog attempts to educate people about hydroponics and the many scientific aspects of this type of plant culture. Through my posts I attempt to share my knowledge about hydroponics and the way plants work as well as how to prepare your own solutions, additives and growing systems for your hydroponic crops. As a chemist I have acquired an in-depth understanding of how things work within a hydroponic crop and I will do my best to share this knowledge with as many people as possible.