

# Peebles lab

November 3, 2018

## 1 Their focus

*lab homepage*

Cyanobacteria biotech:

- identify, develop, and characterize new genetic tools
- genes as locus for heterologous gene expression from chromosomal neutral sites
- counter-selection method for markerless integration
- understand how daily light-dark cycles affect cellular metabolism and develop genetic engineering tools tailored to these dynamic conditions

Plant biotech:

- discover the genes—and enzymes—responsible for synthesis of the anti-cancer drug vinblastine and vincristine in Madagascar Periwinkle
- develop metabolic engineering tools and technologies to produce therapeutics in plants or plant cell cultures

## 2 First draft email

Dear Dr. Peebles,

Intrigued by your work on cyanobacteria and plant biotechnology and especially your work around the *Synechocystis* daily light dark cycles led me to inquire as to whether you are or will be looking for a research technician/assistant or something similar in the near future? I hope to contribute with my experience in modifying and analyzing *Synechocystis* sp. PCC 6803 , my project management and organizational skills and my strong work ethic and adaptive capacity.

As a brief background: For my B.Sc. thesis in Biology at the University of Marburg, Germany, I worked with *P. tricornutum* and *N. oceanica* before continuing to study *Synechocystis* sp. PCC6803 for my M.Sc. thesis in Biology at the University of Freiburg, Germany. During my M.Sc. I also participated in a team to develop an affordable diagnostic tool for the international Genetically Engineered Machine (iGEM) competition. After my M.Sc. I joined Europe's flagship laboratory for the life sciences (EMBL) in Rome, Italy, where I work as a Technical Officer in the Genetic and Viral Engineering Facility.

Please find attached my CV with a summary of my research interests and accomplishments, I am happy to send a cover letter with more information upon request. Thank you very much for your time and consideration, I look forward to hearing from you soon and will be following up next week to see if you have any questions concerning my qualifications.

Sincerely,

Rabea Jesser