



Industrial PostDoc for Chromologics ApS

Deadline: Chromologics – January 28th 2018

Deadline: Innovation Fund Denmark – February 6th 2018

Earliest starting date: May 2018

Chromologics ApS is a university spin-out from the Technical University of Denmark (DTU) developing fungal fermentation solutions for the production of novel natural food colorants.

Chromologics has identified and developed a biotech process that exploits fungal cell factories for the production of novel red pigments. These pigments possess superior chemical properties, making them applicable in industries such as textiles, cosmetics, and especially foods. Our patented proprietary technology allows us to produce pigments cost-competitively in a bio-sustainable manner.

About the project

Microorganisms as alternative producers of natural colorants are being explored due to the advantages of being cultivable in bioreactors allowing for high production outputs. So far, this has, however, been with limited commercial success. Our proprietary filamentous fungus has been shown to excrete a subset of red to orange colorants with novel molecular structure under certain growth conditions. Chromologics ApS has developed and patented a process to control pigment production paving the way for commercialization of these novel pigments intended for food use.

The candidate will work closely with the other researchers at Chromologics, focusing on the underlying fungal biosynthetic pathways for pigment production, employing state-of-the-art genetic engineering approaches to elucidate and optimize production of our novel molecular colorants. Additionally, the work will include metabolic engineering of pathways to explore the potential of producing completely new colors that may thereby expand our color portfolio. The day-to-day work will take place at the Technical University of Denmark (DTU) in Kongens Lyngby, 10 km north of Copenhagen, Denmark, where Chromologics is located.

Responsibilities and tasks

We are looking for a candidate together with whom we, Chromologics and DTU, will apply for an Industrial PostDoc (Innovation Fund Denmark). The candidate must be a highly motivated person trained within the field of metabolic engineering, preferably within fungi or yeast. Furthermore, experience with fungal genetics is beneficial. The candidate will work both on engineering fungal metabolism using advanced synthetic biology tools such as CRISPR-Cas9 and on characterizing the engineered fungal strains.

While spending the majority of his/her time at Chromologics, the candidate will also be enrolled at the Technical University of Denmark and co-supervised by Professor Thomas Ostenfeld Larsen and Uffe Mortensen.



The application is ready for submission once we find the relevant candidate to apply for. The application procedure for Industrial PostDoc can be found at Innovation Fund Denmark homepage: <https://innovationsfonden.dk/en/application/industrial-postdoc>

Qualifications

The candidate should have a PhD degree or equivalent.

- Hands-on experience with yeast or fungal molecular biology and synthetic biology
- Know-how of metabolic engineering, genetic manipulation using CRISPR/Cas9, and metabolic analysis including HPLC and LC-MS/MS
- Strong analytical, organizational and communication (in English, both oral and written) skills
- Initiative, reliability, and drive
- A passion for entrepreneurial projects with an outgoing and proactive personality

We offer

Chromologics offers challenging industrial postdoc in the interplay between innovation, academia, and startup. As Chromologics is still based at the university, we offer an international and research driven environment in a friendly academic atmosphere. Salary and terms are determined by the Innovation Fund Denmark and follow standard industrial postdoc salaries in Denmark.

Further Information

Please contact Anders Ødum aodum@chromologics.com
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www.chromologics.com

Application procedure

Applications should be submitted in English as one PDF file containing all materials to be given consideration. Applications are to be sent to info@chromologics.com

- Application (cover letter) (max 1 page)
- CV
- Diplomas
- Recommendations (max 2 pages)