

SCIENTIA FELLOWS

Biostatistics and/or computational biology in precision medicine and systems pharmacology

Drug Synergy Analysis in Precision Hematology

Joint PI: Arnaldo Frigessi

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Joint PI: Kjetil Taskén

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Project Description: To individually tailor new treatments for leukemia and other blood cancers, we have established a laboratory and computational pipeline to test drugs and drug combinations on blood of individual patients with chronic lymphocytic leukemia (CLL) and multiple myeloma (MM), for whom other treatment options are exhausted or ineffective. This project will develop new statistical and machine learning methodologies, algorithms and computational approaches, to predict the efficacy of drugs and drug combinations, including their synergetic power. Heterogeneous data integration will be an important aspect. Some recent work is listed below.

Eligibility:

- A PhD degree (at the latest by 1 July 2020) in statistics, biostatistics, mathematics, computer science or other related disciplines with a documented competence in statistics, biostatistics or mathematics and advanced computational skills.
- You have not been resident in Norway for more than 12 months in the last 3 years.

Benefits: The fellow will be employed at the University of Oslo (UiO) for three years. The gross salary of a Fellow will amount to 515 200 Norwegian kroner/year (approximately 56,000 US Dollars). UiO will cover full health insurance and pay towards your pension with the Norwegian pension fund. As an employee in Norway the fellow has additional welfare benefits. UiO will also support research costs (laptop, travel, courses etc) with 54 600 NOK per year

References

1. Cremaschi, A., Frigessi, A., Taskén, K., & Zucknick, M. (2019). A Bayesian approach for the study of synergistic interaction effects in in-vitro drug combination experiments. arXiv preprint arXiv:1904.04901.
2. Skånland, Sigrid Strand, Bendiksen Henrik, Andrea Cremaschi, Deepak Balaji Thimiri Govinda Raj, Ludvig Andre Munthe, Geir Erland Tjønnfjord, and Kjetil Taskén. "Ex Vivo Drug Sensitivity Screens Identify Personalized Treatment Options for CLL Patients." (2019): 5446-5446.