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Master's thesis description:

Allogeneic hematopoietic transplant (allo-HCT) is used to treat many blood cancers and non-malignant conditions. Allo-HCT recipients undergo conditioning regimen to impair their immune system, followed by the transfer of hematopoietic cells from a healthy donor, and reconstitution of the immune system. Allo-HCT recipients are viewed as "never vaccinated", as pre-transplant seroprotection wanes with time, putting them more at risk for infectious complication. Post-transplant vaccination is therefore a crucial strategy for protecting allo-HCT recipients against preventable infectious diseases.

In this project, the candidate will analyze longitudinal data collected at the University Hospital Zurich to identify factors responsible for a delayed immune reconstitution and impaired vaccine response in allo-HCT recipients. Biostatistical and machine learning methods will be employed. This project will be conducted in the team of Pr Roger Kouyos, in close collaboration with transplant infectious diseases clinicians and hematologists at the University Hospital Zurich.

Supervisors: Dr Chloé Pasin / Pr Roger Kouyos

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Links:

https://www.usz.ch/en/clinic/infectiology/research-group-roger-kouyos/

https://www.chloepasin.com