Postdoctoral position to study novel rust resistance genes and use them to develop rust-resistant wheat

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Background: Rusts are the most devastating diseases of wheat capable of whipping out entire crops. Along the history, rust resistance genes were used to combat rusts, however many of the genes have lost efficacy and new epidemics threaten global wheat production. Therefore, new sources of rust resistance are badly needed to boost the wheat rust resistance gene pool. We have used a novel approach (http://dx.doi.org/10.1101/248146) to identify a suit new rust resistance genes in a panel wheat ancestral wild plants. This project is aimed at validating the function of these gene, verify the spectrum of resistance, and generation of wheat.

Candidate must have a strong background in plant molecular biology and experience with plant transformation. Previous experience in transcript analysis and genomic approaches are desirable.

It is a great opportunity for a postdoctoral associate to join an active and experienced research group and to take part in a high impact research. The project offers multiple opportunities for development of cutting edge research using advanced genomic and biotechnological approaches.

Tel-Aviv University campus is located near the center of Tel-Aviv. There is a large international community of students and post docs on campus, offering a range of social and academic opportunities.

Terms of position: A post doc fellowship is secured for three years.

Application: Please send cv and letter of interest to amirsh@ex.tau.ac.il