

CV

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Department of Environmental Stress Biology

Regulation of Gene Expression Team

Specialization: plant molecular biology, molecular physiology of plant adaptation to environmental stress factors, regulation of growth in a daily cycle, BBX proteins in *Solanum tuberosum* species

Research profile

- Molecular basis of plant tolerance to abiotic stresses (low temperature, drought, salinity).
- Function of BBX proteins (B-box zinc finger protein family) in *Solanum* species in the processes regulated by light and circadian clock during vegetative/generative growth and in response to hormones and stress factors (high/low temperature, water deficit and salinity).
- Plant material: *Solanum tuberosum* and *Solanum soganandinum*.

National and international grants

- **National Science Centre**

Project number: 2014/15/B/NZ9/04809

Title: **Functional analysis of the SsBX24 protein containing zinc binding domains in circadian clock during development and response to salinity**

Duration: 20 July 2015 - 19 July 2018

National cooperation

- Adam Mickiewicz University in Poznan; Faculty of Biology; Institute of Molecular Biology and Biotechnology
- Adam Mickiewicz University in Poznan; Faculty of Physics; Molecular Biophysics Department

International co-operation

- CEA, DSV, IBEB, Lab Ecophysiol Molecul Plantes, Saint-Paul-lez-Durance, Francia.
Structure and function of BBX proteins in light signaling.

Papers

- Talar U., Kielbowicz-Matuk A., Czarnecka J., Rorat T. **(2017)**. Genome-wide survey of B-box proteins in potato (*Solanum tuberosum*) – identification, characterization and expression patterns during diurnal cycle, etiolation and deetiolation. PLOS ONE 12(5): e0177471.
- Kielbowicz-Matuk A., Talar U., Biegańska M., Rorat T. **(2015)** „Regulation of plant growth and acclimation to cold in a daily cycle”, 19th Cold Hardiness Seminar in Poland, 29-30 September 2015, Kórnik, Abstract: 9-10

Interests/Hobbies

Watching movies, reading, photography, homemade preserves