INSTYTUT BIOCHEMII I BIOFIZYKI
POLSKIEJ AKADEMII NAUK

Institute of Biochemistry and Biophysics PAS
Laboratory of Plant Protein Phosphorylation
is opening a call for a position of a Scholarship Student

The Student will join the project entitled "SnRK2 protein kinases as integrators of environmental signals in the regulation of the senescence in plants" funded by the National Science Center Grant OPUS14 headed by dr Anna Kulik

Keywords: SnRK2, protein kinases, senescence, salt stress, NAC transcription factors.

In nature, all living organisms must continuously sense their surroundings and react to occurring changes. In cells information about these changes is transmitted to all cellular compartments including the nucleus by multiple phosphorylation cascades maintained by protein kinases. Sucrose Non-Fermenting 1 Related Protein Kinases (SnRK2s) are plant-specific enzymes devoted to control responses to water deprivation. SnRK2s signaling pathways are highly conserved across plant species and play a key role in plant functioning at multiple developmental stages. Although, our knowledge about SnRK2s role in seeds is still very incomplete. Why seeds are so important? In the world of sexually reproducing plants production of high quality seeds is an essential feature for the survival of the species. To ensure optimal and proper development of the embryo and future seedling seeds must strictly control the complex process of dormancy and germination in time and space. In the project, we will study the impact of SnRK2 kinases on seed viability over time, which is also known as seed longevity. We will also unravel new control mechanisms and networking between SnRK2s and their selected regulators in seeds, among others the Delay of Germination 1 (DOG1) protein.

Requirements:

1. Experience in experimental laboratory work on a plant model and seeds is welcome.
2. Basic knowledge of molecular biology techniques and the study of plant resistance to abiotic stress.
3. Good knowledge of English in speech and writing.
5. Ability to work in a team, good organization of work, responsibility for entrusted tasks.
6. Enthusiasm in scientific work and willingness to constantly deepen knowledge and take up challenges.

We offer:

1. Work in a friendly, versatile and experienced in plant biochemistry team.
2. Cooperation with specialists in the field of undertaken research.
3. Scholarship.
4. Start of work no later than 15.02.2023.

Candidates are asked to submit the following documents:

1. Curriculum vitae.
2. Cover letter (research interests, technical skills, experience and practice).
3. Confirmation of student status.
4. Recommendation letter.

Applications with the title "Master's Scholarship Student" should be sent to anja@ibb.waw.pl by **January 5, 2023**. You can also direct any questions about the project and the position to this address.

Please include the following statement in your application: “I hereby give my consent for the processing of my personal data by the Institute of Biochemistry and Biophysics PAS with its seat in Warsaw Pawińskiego 5a, 02-106 hereinafter referred to as the Institute for the purpose of the recruitment process and for future recruitment processes conducted by the Institute under Art. 23 ust 1 pkt 1 of the Personal Data Protection Act dated on 29 August 1997, consolidated text: Journal of Laws 2016, item 922 with further amendments and under Art. 6 ust.1 lit. a of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such GDPR (Dz. U. UE. L. z 2016 r. Nr 119)”.