



FACULTY OF SCIENCE
Charles University

Report on part of state final examination Defence of bachelor's thesis

Academic year: 2023/2024

Student's name and surname: Sofie Dundrová
Student's ID: 96283378

Type of the study programme: Bachelor's
Study programme: Special Chemical and Biological Programmes
Branch of study: Molecular Biology and Biochemistry of Organisms
Study ID: 673159

Title of the thesis: The role of cyclic nucleotides in plant signaling
Thesis department: Department of Experimental Plant Biology (1300)
Language of the thesis: English
Language of defence: English
Advisor: Mgr. Matyáš Fendrych, Ph.D.
Reviewer(s): Lukas Fiedler
Date of defence: 06.09.2024 **Venue of defence:** Praha
Attempt: regular

Course of the examination: The student gave a high quality presentation, kept to the time limit and responded very well to questions from the opponent and the plenary.
General discussion:
Dr. Hála: Why did you not include any schemes or pictures to your thesis?
Dr. Šustr: Did you say that CN are not secondary messengers? Can you say some more information about CN-gated channels?
Prof. Cvrčková: Is there any reason that some references are in red? How stable CN are, e.g. using the microinjecton method?
Dr. Fischer: You mentioned that the signalling is strictly localized. Is the mechanism known at the moment?
Dr. Hála: Can you comment on the use of un-hydrolyzable analogues of the CN research / enzyme kinetics? Is it used in the papers you went through? Have you met the microijection method during the CN studies?
Mr. Fiedler: How many times evolved the cyclases in plants and in animals?
The commission decided by vote (2 votes for 1, 3 votes for 2) to classify it as very good (2).

Result of defence: very good (2)

Chair of the board: Hála Michal, RNDr., Ph.D. (present)

Committee members: Cvrčková Fatima, prof. RNDr., Dr. (present)

Fendrych Matyáš, Mgr., Ph.D. (present)

Fischer Lukáš, RNDr., Ph.D. (present)

Urfus Tomáš, Mgr., Ph.D. (present)