



1. LÉKAŘSKÁ
FAKULTA
Univerzita Karlova

Zápis o obhajobě disertační práce, kterou organizovaly společně Univerzita Karlova a Sorbonne Université

Akademický rok: 2022/2023

Jméno a příjmení studenta: Mgr. Tomáš Bárta
Identifikační číslo studenta: 18815338

Typ studijního programu: doktorský
Studijní program: Biomedicínská informatika
ID studia: 600753

Název práce: Neuronal coding and metabolic cost of information
Pracoviště práce: Czech Academy of Sciences (11-00048)
Jazyk práce: angličtina
Jazyk obhajoby: English
Školitel: Mgr. Lubomír Košťál, Ph.D.

Oponent(i): Dominique Martinez
prof. Thomas Nowotny

Datum obhajoby: 31.05.2023 **Místo obhajoby:** Praha
Termín: řádný

Průběh obhajoby:

(PAGE 3)

Q4: ANN CONCEPTS...

ALL QUESTIONS BY PRIF. MCH/FR ANSWERED.
THE COMMITTEE THEN VOTED

4 : 0 : 0

Výsledek obhajoby:

PROSPĚL

Předseda komise:

prof. MUDr. Štěpán Svačina, MBA, DrSc.

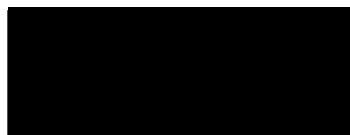
Členové komise:

prof. RNDr. MUDr. Petr Maršálek, Ph.D.

doc. RNDr. Barbara Zitová, Ph.D.

Matthieu Dacher

Podpis studenta:



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REPORT ON THE DEFENSE.

1) ADVISOR INTRODUCED THE CANDIDATE,
TOMAS BARTA

2) PHILIPPE LUCAS INTRODUCED TOMAS
BARTA (AND HIS ACTIVITIES AT THE PRINCH
SIDE.

T.B. ^{STARTED} 2018 AT THE P-LUCAS LABORATORY.
P-LUCAS RECOMMENDED THE CANDIDATE FOR
THE DEFENSE

3) PRESENTATION OF THE THESIS:
NEURONAL CODING: NEURONAL CODING AND METABOLIC
COST OF INFORMATION.

4) THE PROTECT ON THE WITH OCPACTORY
PATHWAY. THE CANDIDATE USED THE ACCOUNTED
TIME OF 20 MINUTES TO PRESENT HIS THESIS

5) THE ORRUMENT REVIEWS

6) PROFESSOR THOMAS RIVEST

REPORTS OF THESE
QUESTIONING CAN INTERPRET THE
CONNECTIVITY AND OTHER PARAMETERS
OF YOUR MODEL.
CANDIDATE ANSWERED TO FULL SATISFACTION.

Q2: WOULD NOT MORE DETAILED MODEL
GET YOU OUT OF THE KNOWN PARAMETERS?

ANSWERED OK

Q3: WHAT IS THE FUNCTION OF THIS HIGH-SPONT. ACTIVITY?
ANSWERED. DESCRIBED AND NOTED DIFFERENCES

7) DOMINIK MARTINEZ PRESENTS HIS REVIEW.

ESTIMATES SHOWS PROPOSES TO QUANTIFY

ANSWER: USE OF PIECEWISE LINEAR INTERPOLATION
AND THE HILL FUNCTION.

ALL QUESTIONS ARE ANSWERED TO SATISFACTION
GENERAL DISCUSSION

8) MATTHEW PACKER

Q1: CAN YOU COMMENT ON THE SIZE
OF PULSATION INVOLVED IN REGULAR
ORDER (NOT FIBRILLATE) DEFIBRATION?

Q2: WHAT WOULD DO (MUCH) PASTOR STIMULUS?

Q3: COULD YOUR MODEL SIMULATE PHARMACOLOGICAL
MANIPULATION OF INVOLVED MUTUAL-NETWORK?