Jméno: **Eva ZÁHORSKÁ** Osobní číslo: **B14327**

Průběh obhajoby diplomové práce:

thesis title: Synthesis

1/ Overview of the thesis: Binding affinity in the system (Streptavidin)-avidin-biotin; Dissociation constants

2/ Chemical modification of biotin -> (~~Imino~~ biotin-Gly)$_2$ Cystamine

3/ Role of Glu-NH_2 remnant
Hexanoic acid -> valeric acid -> polar moiety

4/ Results - synthesis of the linker -> product -> purification was demanding

5/ Biotin sensor chip: Monovalent analogs / Bivalent analogs

6/ SPR measurements ↓ higher affinity ↑ than bivalent

20 atoms lengths for streptavidin

7/ Discussion ↳ better than ↳ shorter

Glu-NH_2 -> ? linker ↳ plays a role in binding/specificity/selectivity in the system of biotin/streptavidin

Body:

Klasifikace: EXCELLENT

Celková klasifikace:

Datum obhajoby: 24/4/17

podpis předsedy

Hodnocení ústních zkoušek:

Why Glu-NH_2 acid interfers with interaction

Prof. Norbert MÜLLER

Prof. Hermann GRUBER

Prof. Markus MIMMELSBACH

Prof. Libor Grubhoffer