

Průběh obhajoby diplomové práce:

- 1/ Overview of the thesis - explaining all details of  $Ca^{2+}$  transportations
- 2/ Orai 1 protein (of altogether Orai 1, 2, 3)
  - ↳ transmembrane helices, hexameric structure
  - ↳ alternation of C-terminus
- 3/ Orai 1 channel mutations - relation to cancer behaviour of the cells - 5 interesting mutations
- 4/ Mutations - a way of choosing - 14 different cancer related
  - ↳ some mutants constitutively active mutations
- 5/ @ Methods used: NFAT reporter assay - Calmodulin,  $Ca^{2+}$  Patch Clamp
  - ↳ activated calcineurin
  - ↳ methods using micropipettes
- 6/ Results: @ NFAT - endogenous general mechanism
- 7/ @ PATCH CLAMP results: -

Body: EXCELLENT (1)

Klasifikace

Celková klasifikace:

Datum obhajoby:

@G 183 mutant (ghostosome)  
site directed mutagenesis  
Ala, Val - nothing change

podpis předsedy

Hodnocení ústních zkoušek:

116, top?  
↳ interesting results not yet proved  
and explain

Prof. Norbert MÜLLER

Prof. Markus HIMMELSBACH

Dr. Rainer SHINDL

Libw GRUBHOFFER