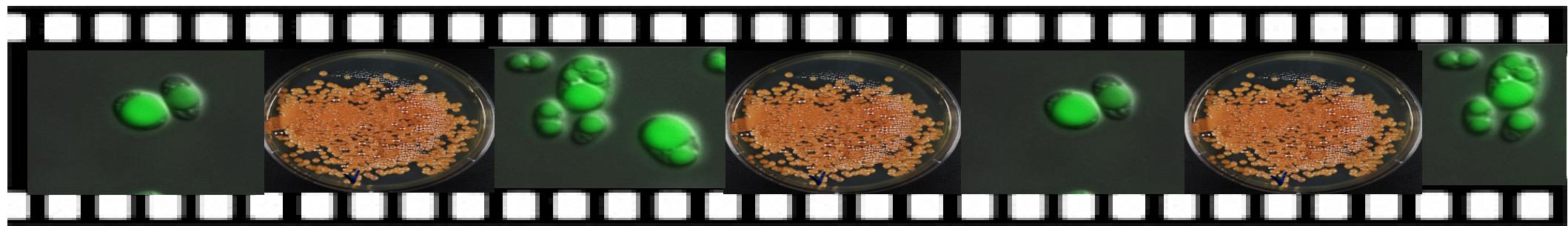


# *Rhodosporidium toruloides*: The Valuable Metabolites Production under Nutritional Stress

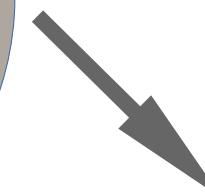
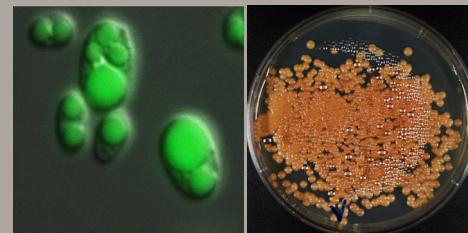
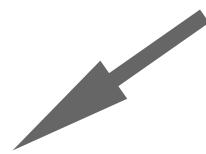
Iveta Kostovová

Department of Food Science and Biotechnology,  
Faculty of Chemistry,  
Brno University of Technology,  
Czech Republic



# Red yeast *R.toruloides*

Lipids



Carotenoids –  
provitamins of vit A



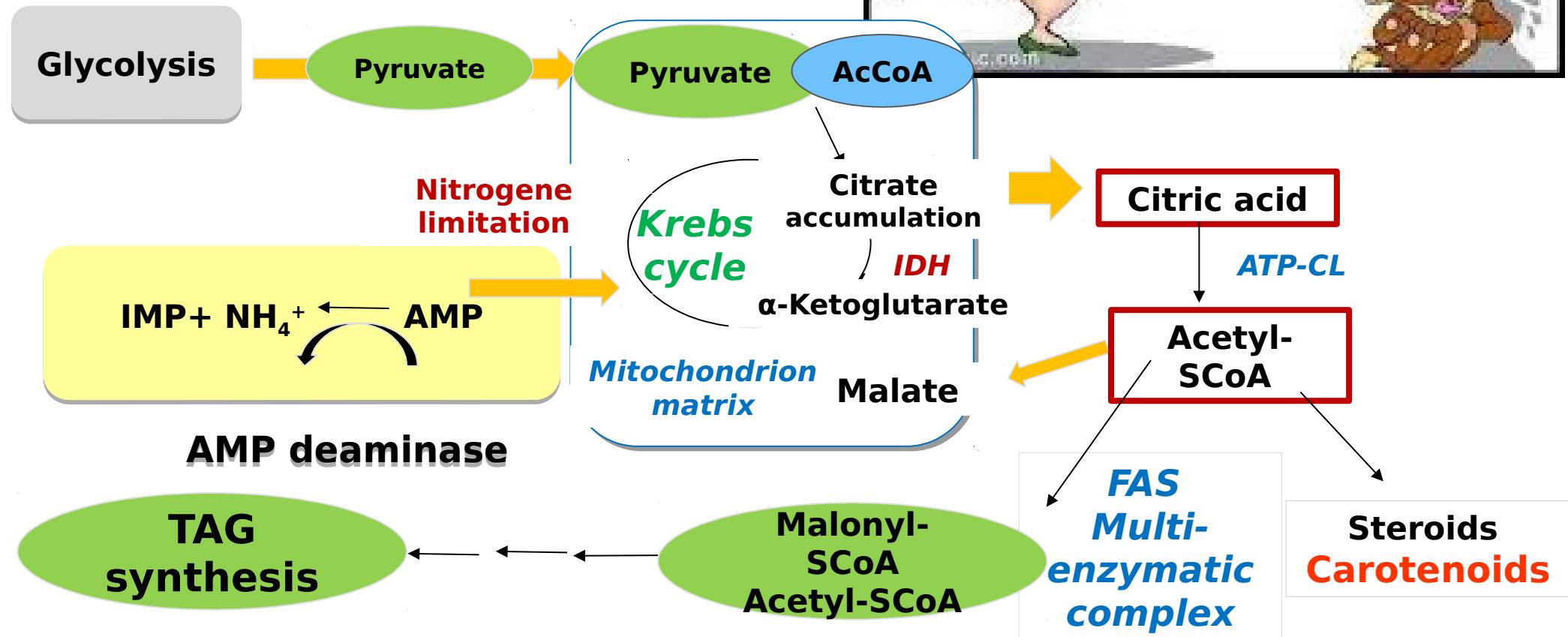
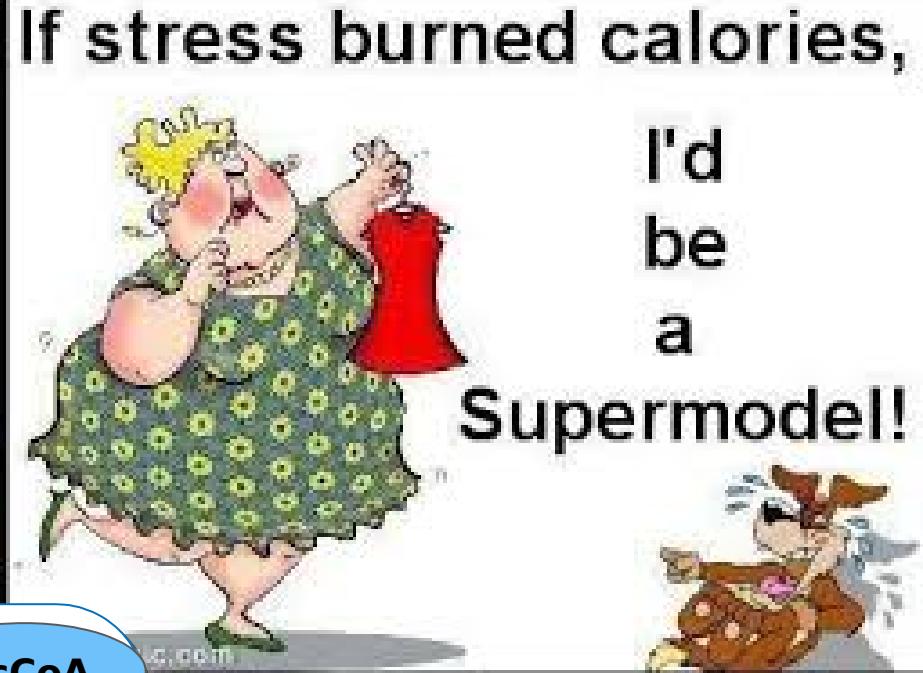
Polyunsaturated  
Fatty acids



Biodesel

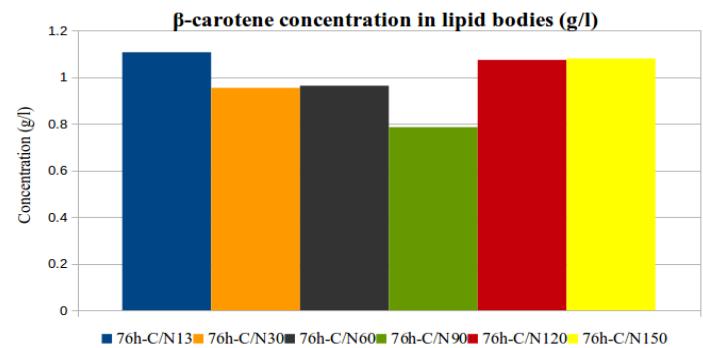
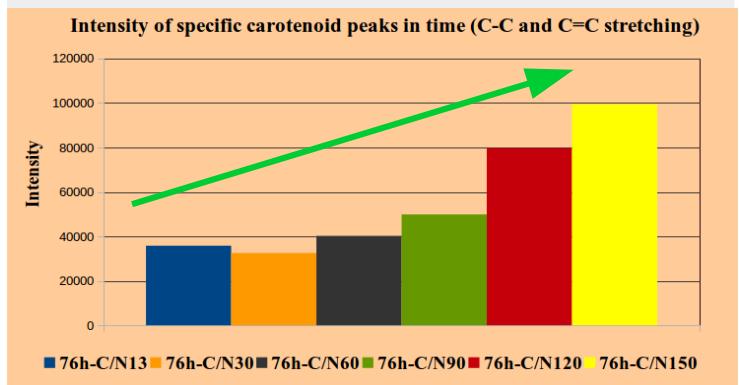
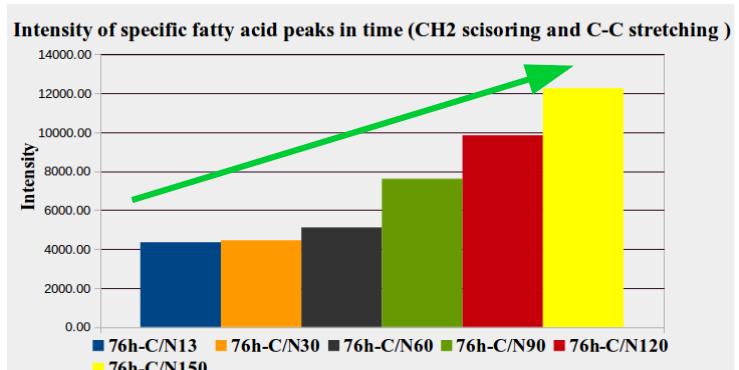
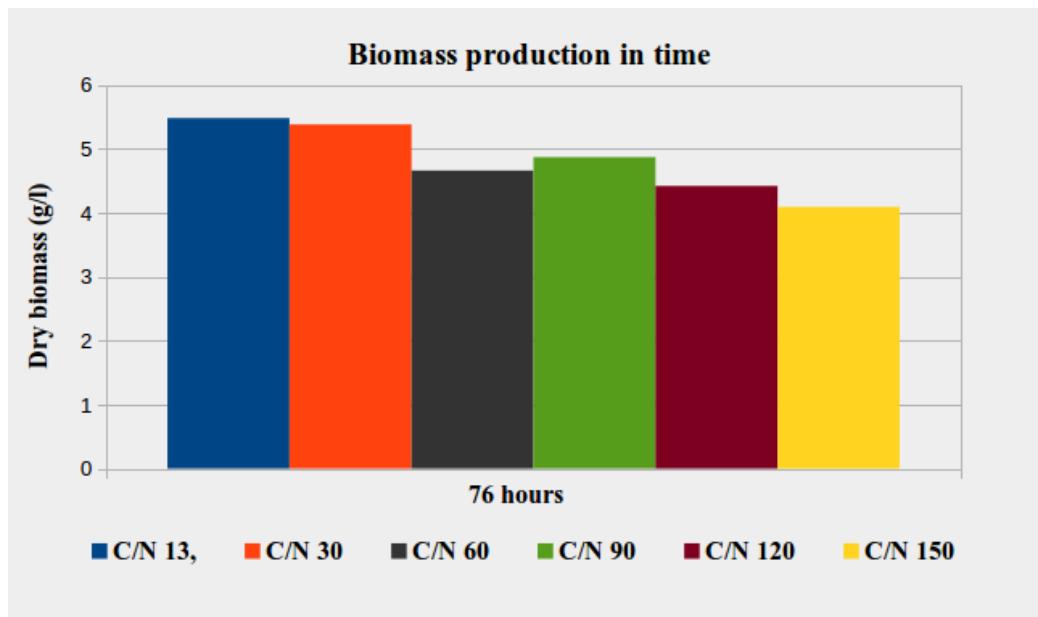


# *Rhodosporidium toruloides* in “stress”



# Carotenoid and Lipid Production under Nitrogen Limitation

- Used C/N ratios :13, 30,60,90, 120, 150
- Time of cultivation:76 hours
- Relative comparison of lipid and carotenoid production by Raman microspectroscopy



# Thank you for attention !

