



UNIVERSITA' DEGLI STUDI DI ROMA "TOR VERGATA"

DIPARTIMENTO DI BIOLOGIA

*LABORATORIO DI ONCOLOGIA SPERIMENTALE E ISTOLOGIA*

**CONVEGNO NAZIONALE PALLAVOLO**

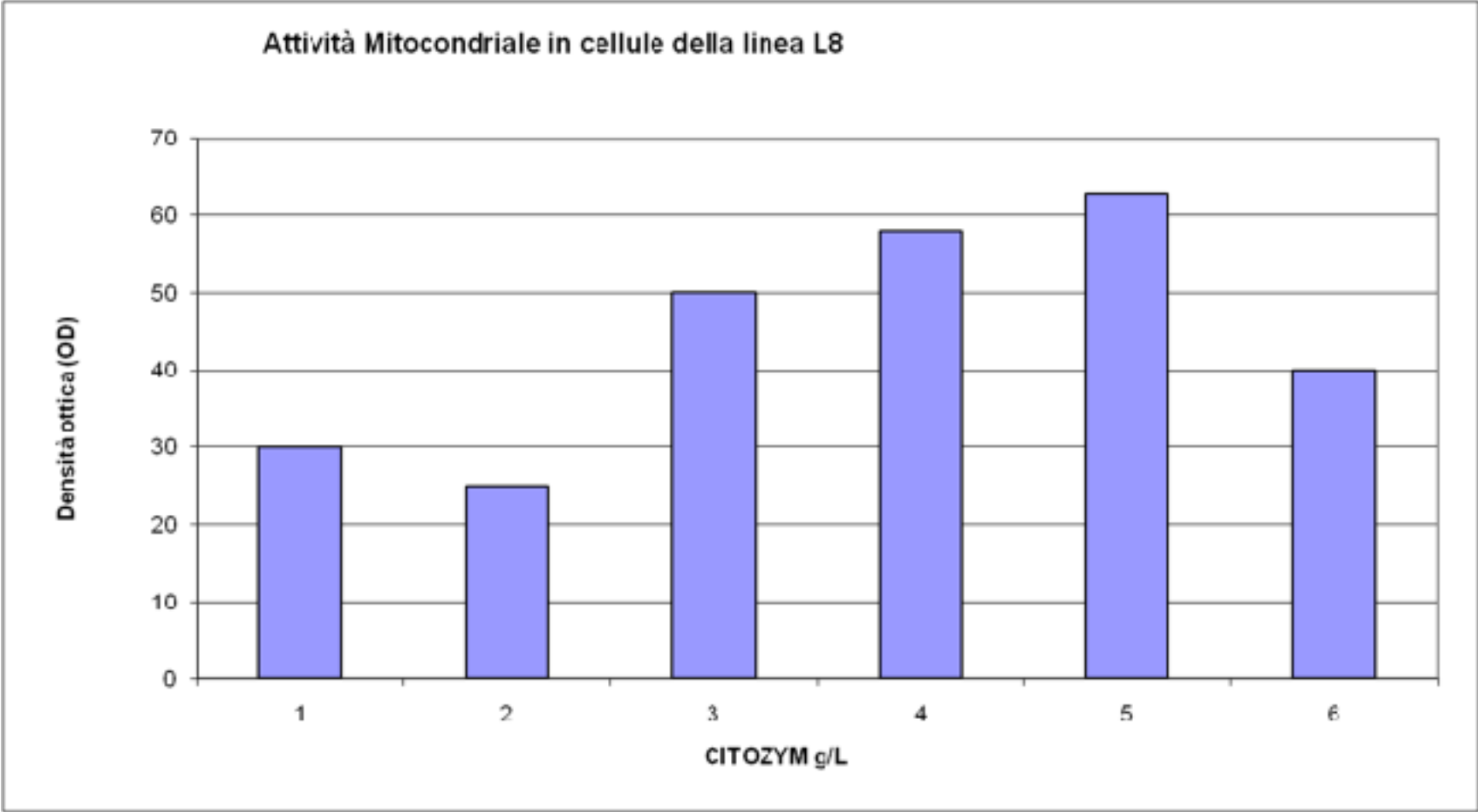
**FONDAMENTALE RIDUZIONE DELLO**  
**STRESS OSSIDATIVO E DALLE**  
**RADIAZIONI FOTOCHEMICHE**

**PALAROSSINI ANCONA 02/10/10**

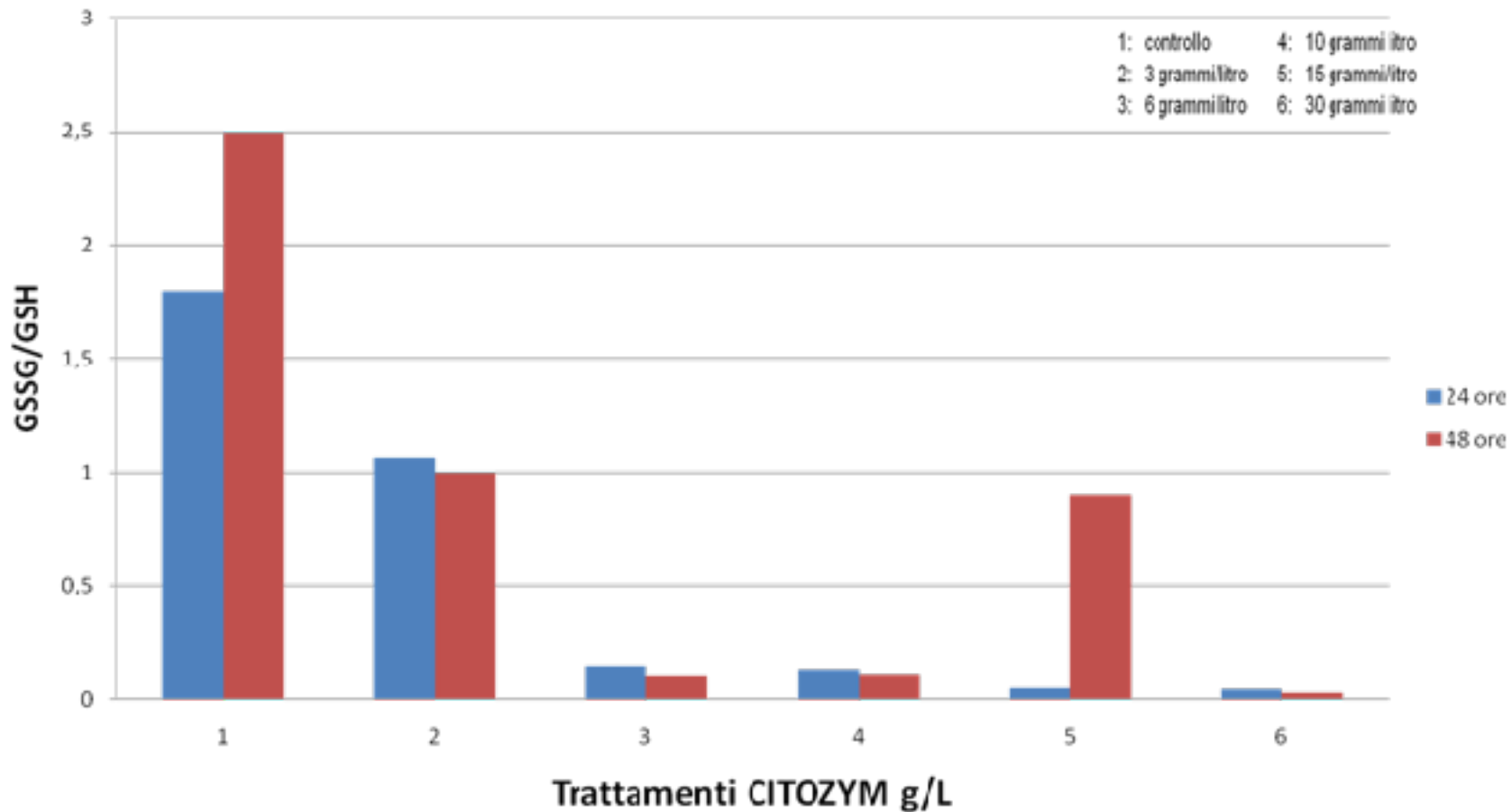
Prof. Vittorio Colizzi

# Attività Mitocondriale in cellule di muscolo striato (L8)

- 1: controllo
- 2: 3 grammi/litro
- 3: 6 grammi litro
- 4: 10 grammi litro
- 5: 15 grammi/litro
- 6: 30 grammi litro

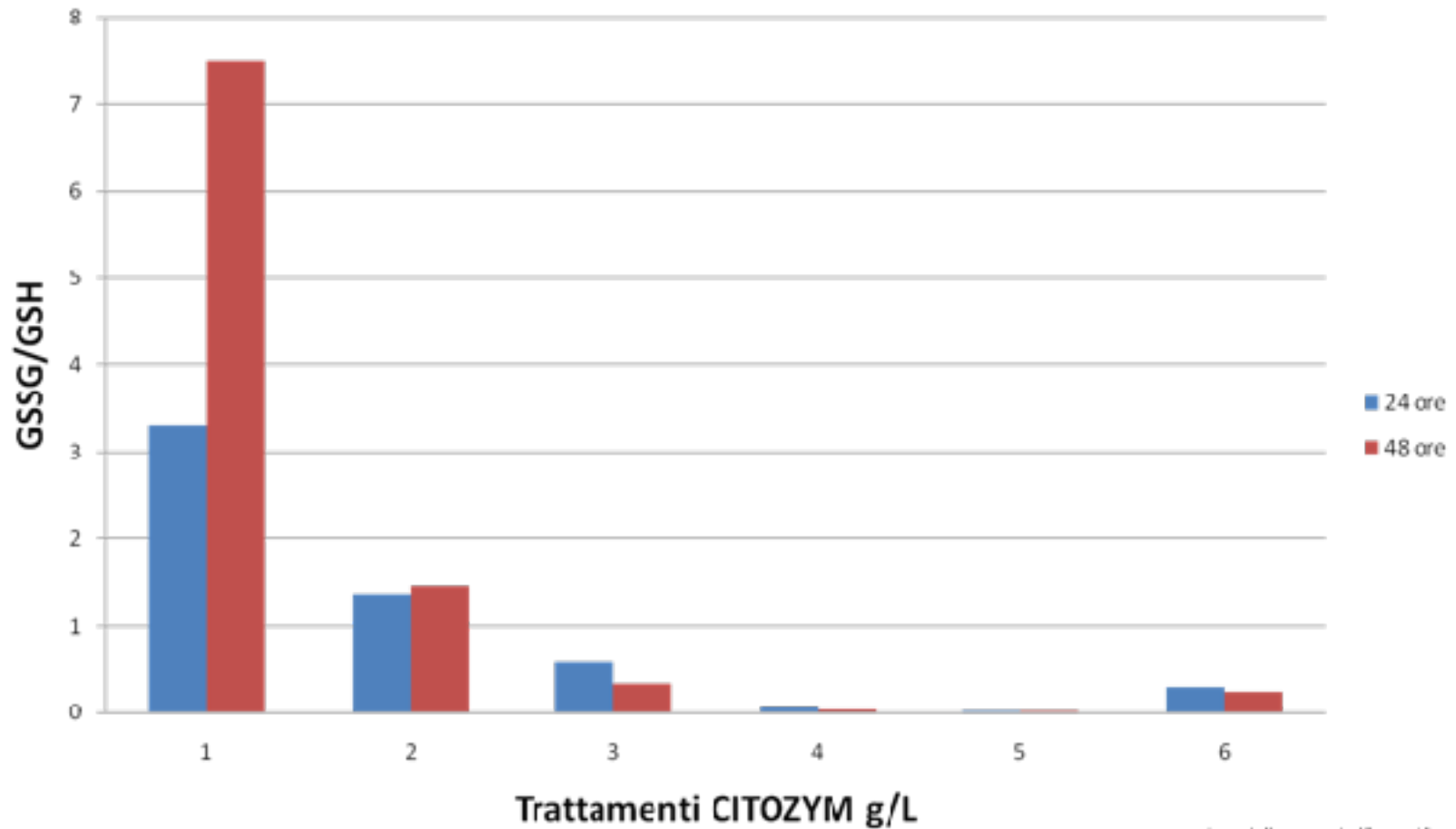


# Livelli di stress ossidativo in cellule CHO (cavia)



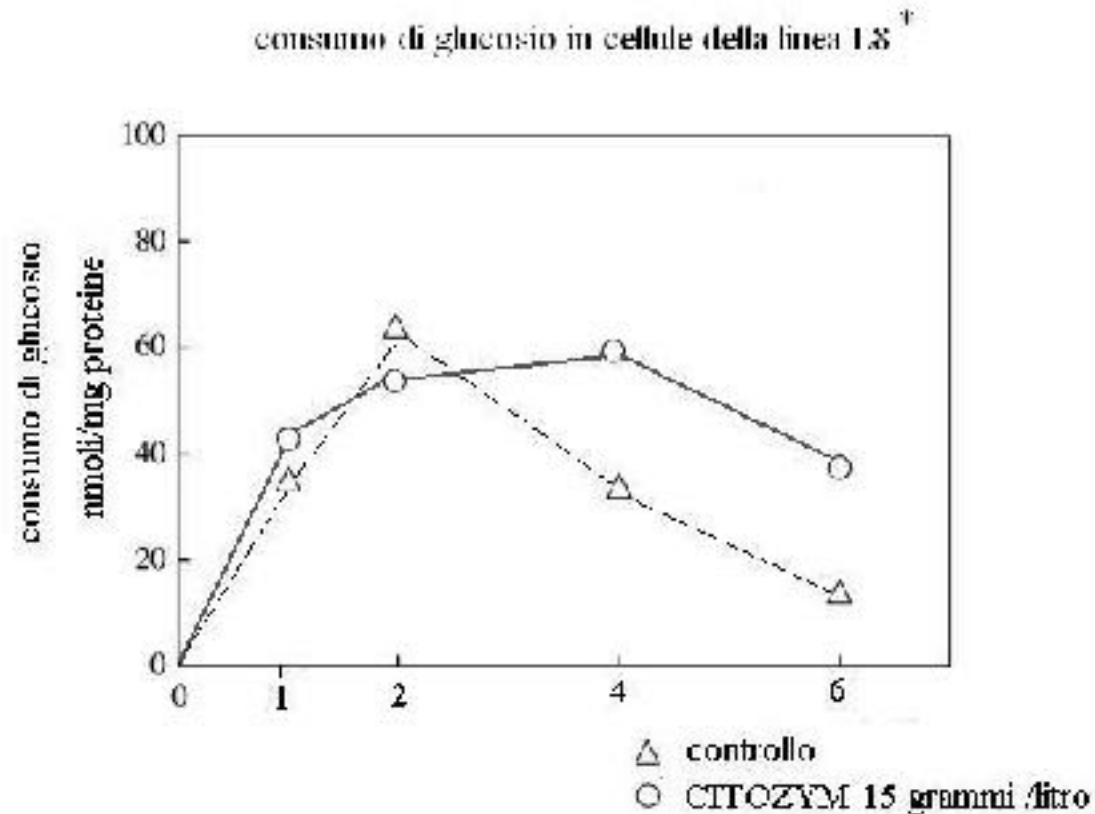


# Livelli di stress ossidativo in cellule NIH3T3 (umane)



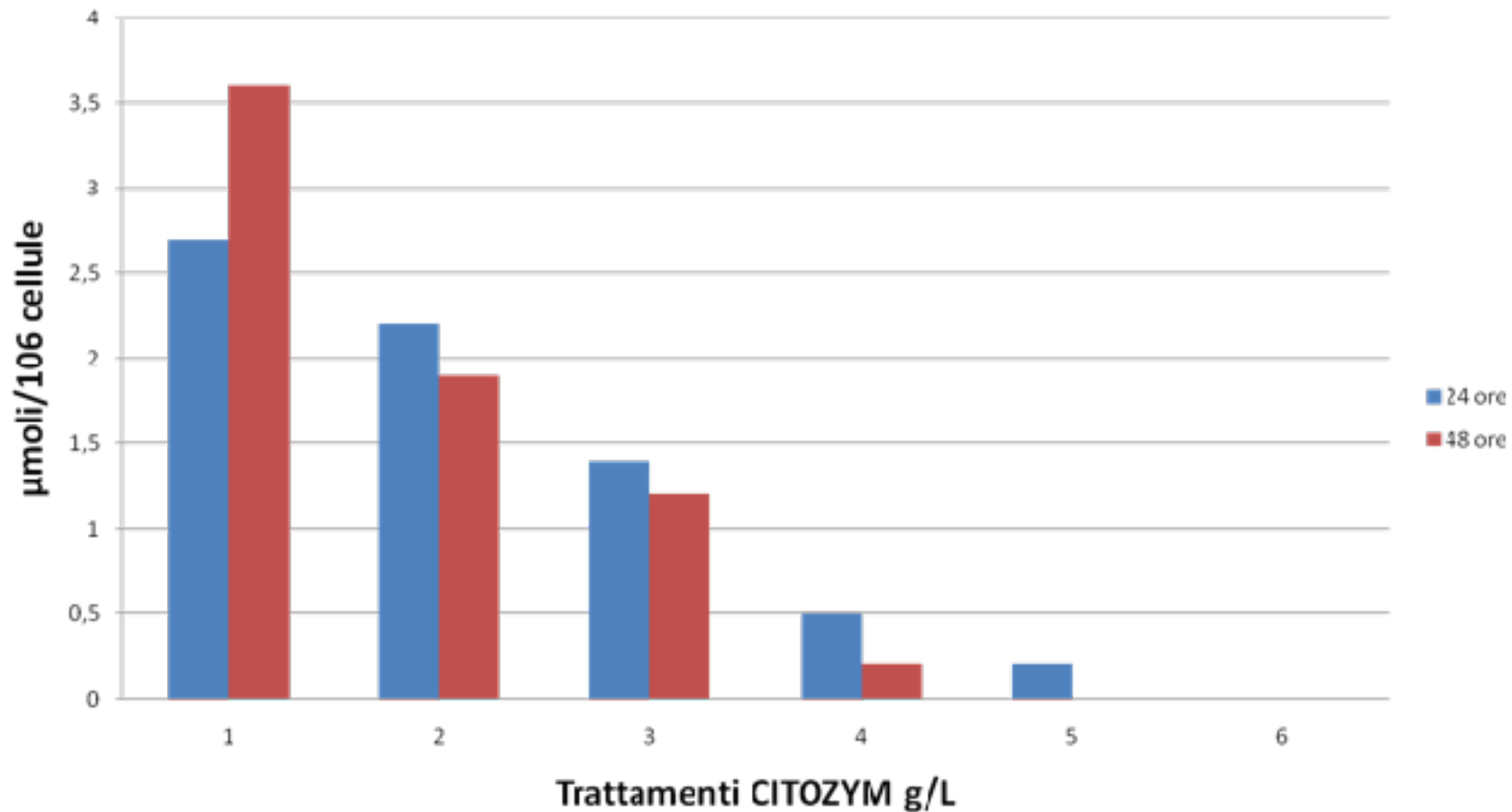
1: controllo      4: 10 ppm/ml  
2: 8 ppm/ml      5: 16 ppm/ml  
3: 6 ppm/ml      6: 20 ppm/ml

# Aumentata utilizzazione del glucosio in cellule di muscolo striato (L8)



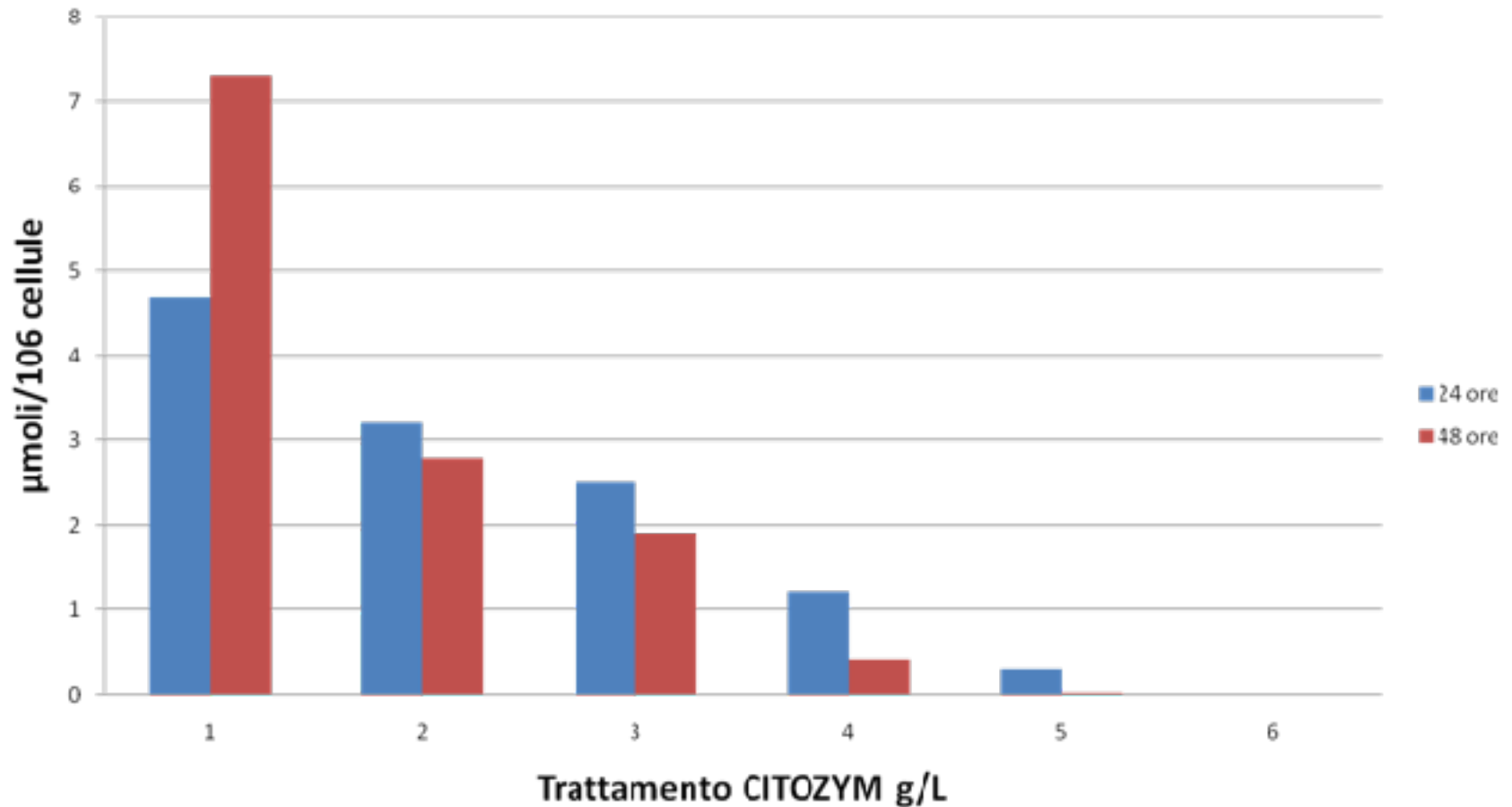
<sup>†</sup> L8 ATTC n. CRL-1769 muscolo scheletrico di ratto

# Livello di ROS in cellule CHO



1: controllo      4: 10  $\mu\text{g/ml}$   
2: 3  $\mu\text{g/ml}$       5: 15  $\mu\text{g/ml}$   
3: 6  $\mu\text{g/ml}$       6: 30  $\mu\text{g/ml}$

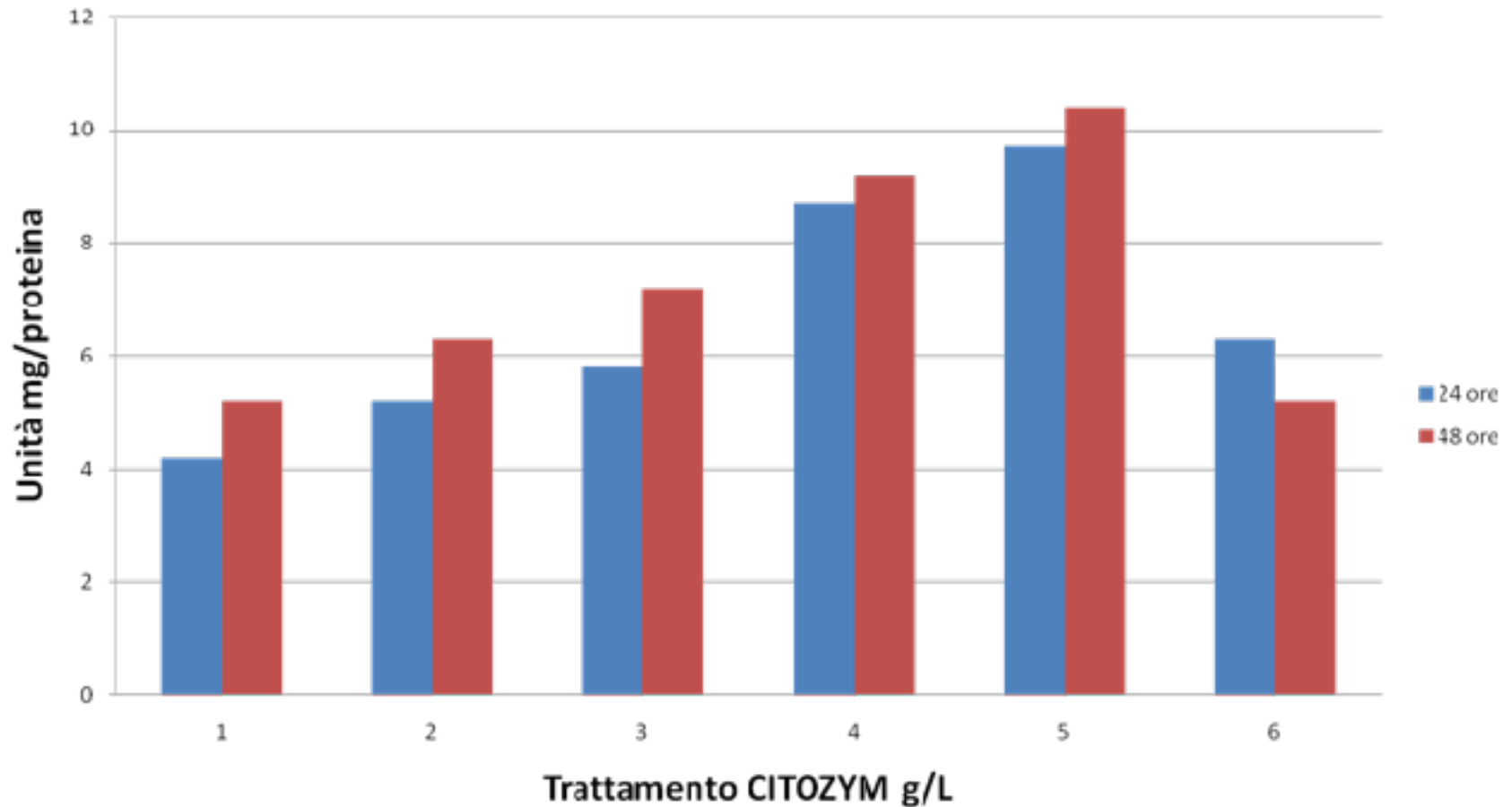
# Livello di ROS in cellule Umane (NIH3T3)



1: controllo      4: 10  $\mu\text{g}/\text{ml}$   
2: 8  $\mu\text{g}/\text{ml}$       5: 15  $\mu\text{g}/\text{ml}$   
3: 6  $\mu\text{g}/\text{ml}$       6: 20  $\mu\text{g}/\text{ml}$

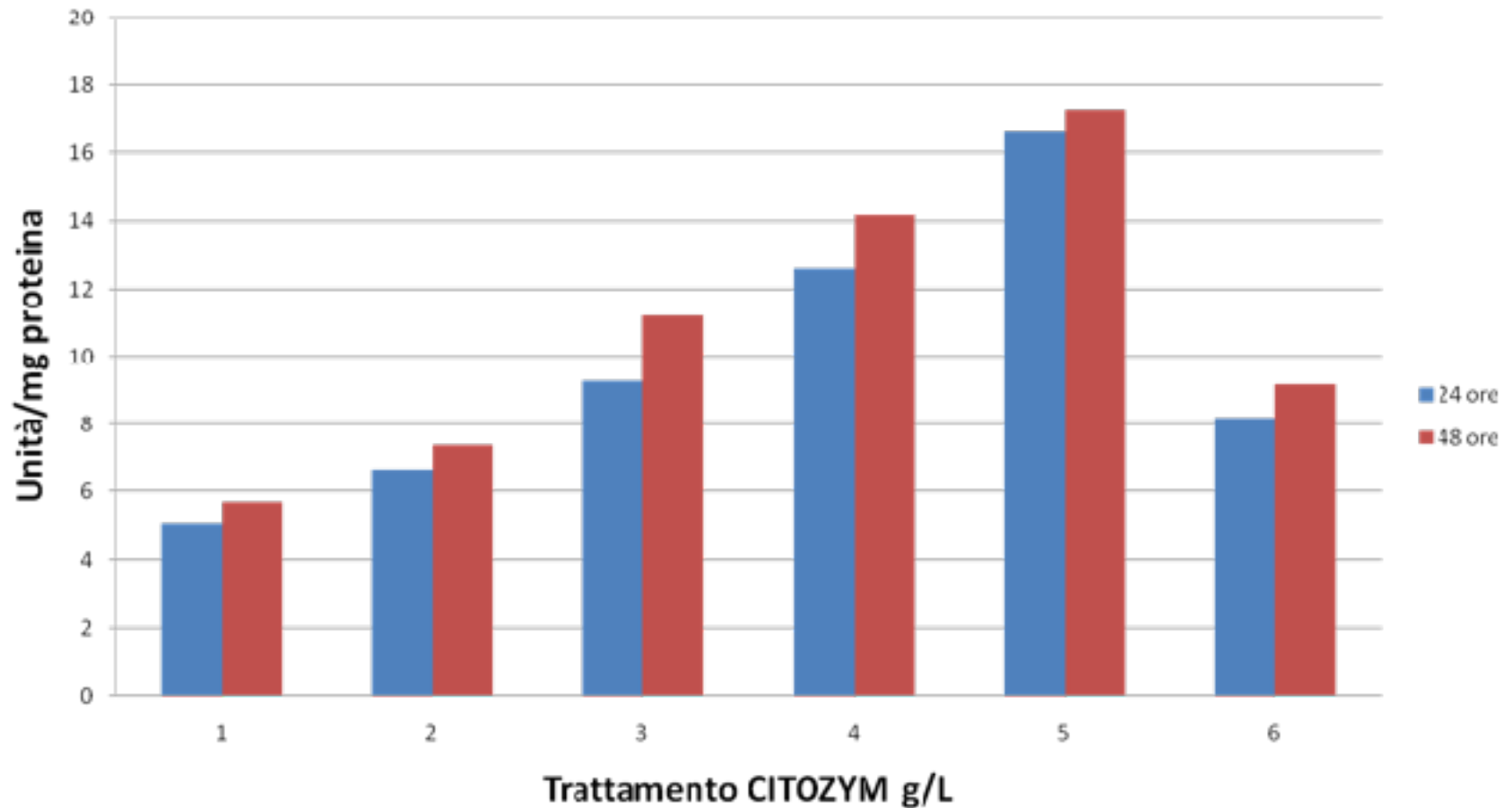


# Attività Catalasi (CAT) in cellule CHO

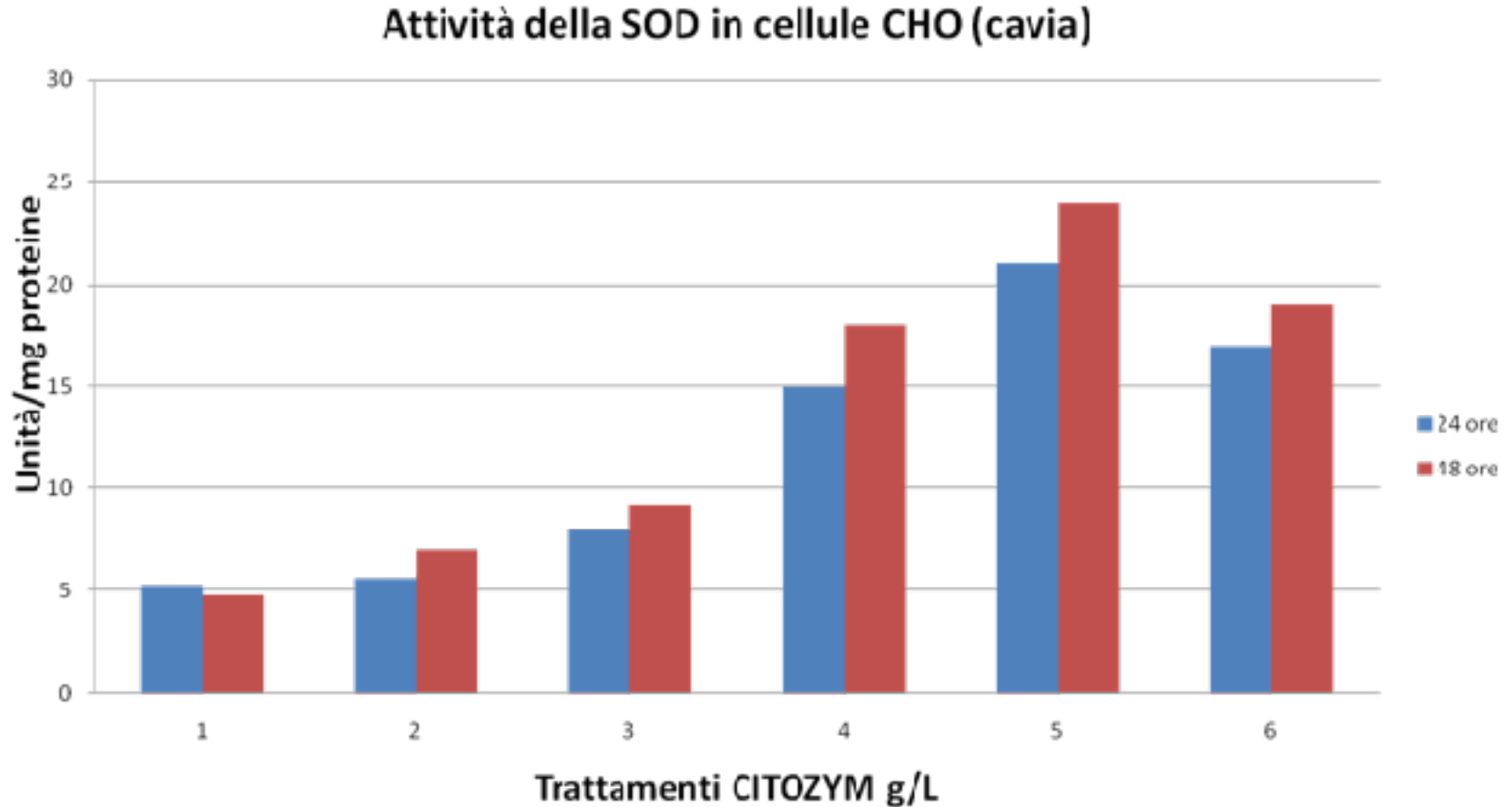


1: controllo      4: 10 g/ml  
2: 2 g/ml        5: 15 g/ml  
3: 5 g/ml        6: 20 g/ml

# Attività Catalasi (CAT) in cellule umane (NIH3T3)

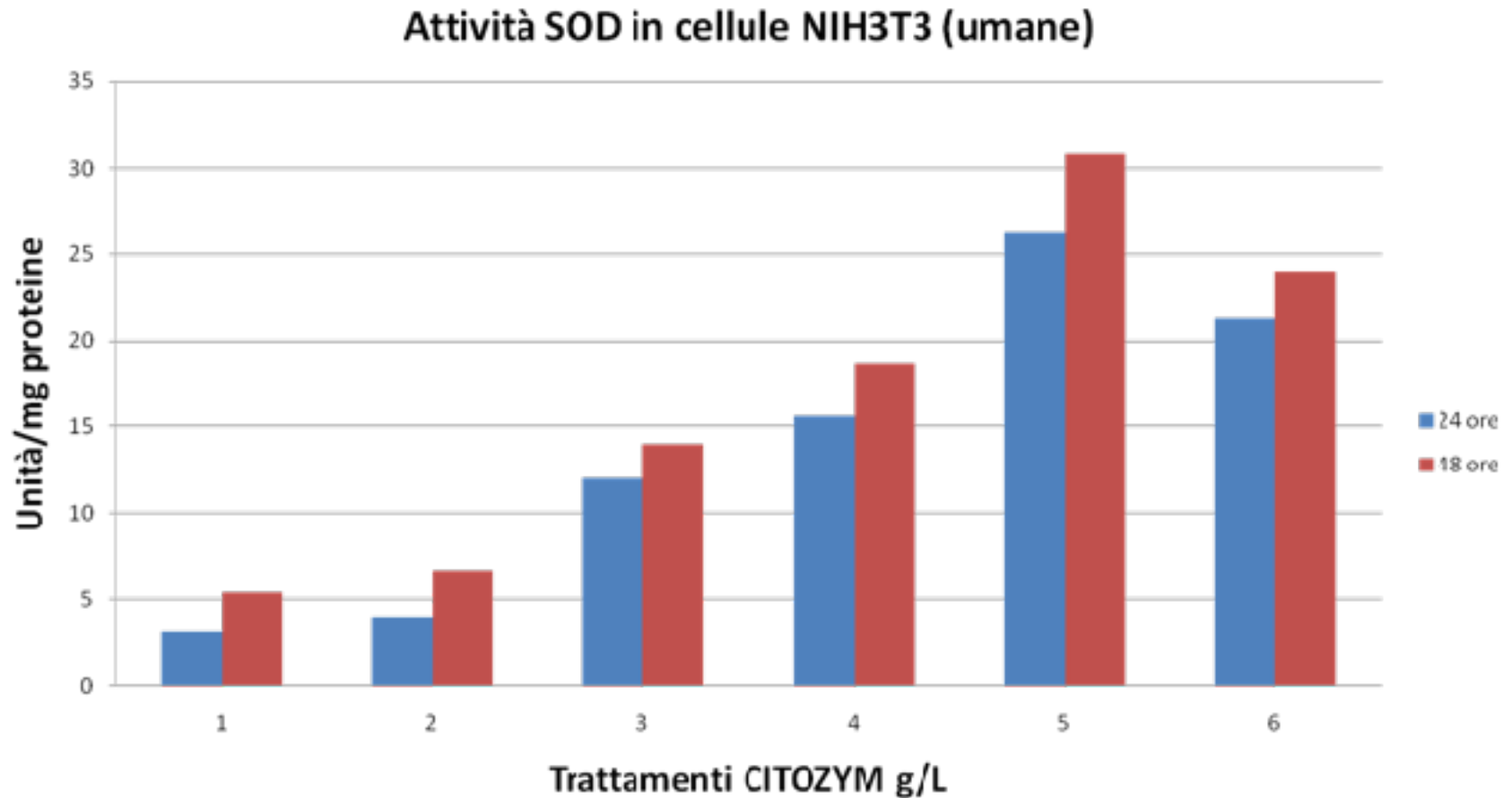


# Attività SOD in cellule CHO



1: controllo      4: 10 g/ml/ho  
2: 2 g/ml/ho      5: 15 g/ml/ho  
3: 5 g/ml/ho      6: 20 g/ml/ho

# Attività della SOD in cellule umane



1: controllo      4: 10 g/ml  
2: 2 g/ml        5: 15 g/ml  
3: 5 g/ml        6: 20 g/ml