

What the ERC-starting grant  
award represents for me?

David Holcman  
Ecole Normale Superieure  
France.

# Beijing Olympics

## Overall Medal Count

Country	<u>Gold</u>	<u>Silver</u>	<u>Bronze</u>	Total
United States	36	38	36	110
China	51	21	28	100



ScienceDebate2008.com presents



*Presidential  
answers to the  
top 14 science  
questions facing  
America*

*Who will be the best president for America in a science-dominated world?*

- **Innovation.** Science and technology have been responsible for ***half of the growth*** of the American economy since WWII. But several recent reports question America's continued leadership in these vital areas. What policies will you support to ensure that America remains the world leader in innovation?

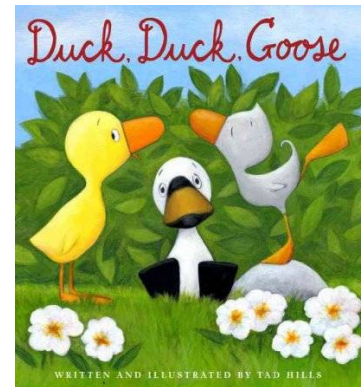
**• "The future economic success of the United States depends on out-performing the competition with smart people and smart ideas. Without the best education system and aggressive investments in basic research and development we will become a second rate economic power. We hope the candidates for president take this very seriously."**

**-Craig Barrett Chairman, Intel**

# Recognition

-Of the field of modeling cell biology

-Of my group immersed in a  
biology department



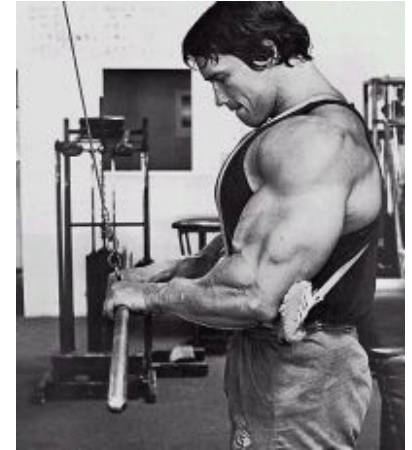
-Timely: Perish or Survive

# Hopes

- New opportunity for young scientists
- Recognition and support of Ambitious Grants at all levels: 8/35 non financed by ANR were financed by ERC.
  - "too young"
  - "this project warrants to be coordinated by a known senior scientist"
- More European leader scientists should be invited to the final step of our national grant evaluation.

# Responsibilities

Hard Work and Outstanding research



Leadership



Economy of tomorrow





# Gipsy of Science

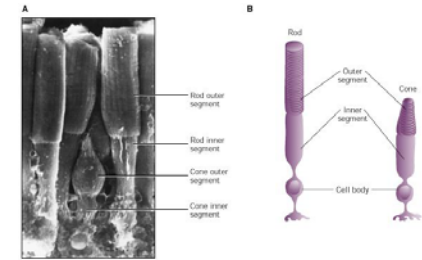




# Team: modeling cellular biology

## •Modeling Phototransduction

– J. Reingruber (Postdoc)

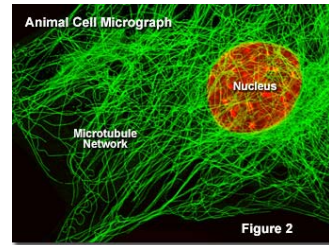


## •Nuclear and cytoplasmic organization

– S.Vakeroudis (PhD), N. Hoze (Master) G. Malherbe (PhD)

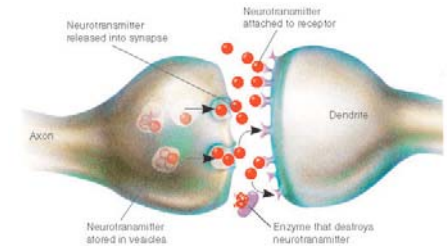
## •Modeling cellular trafficking

– T. Lagache, (PhD), A. Brax, (Master)



## •Modeling synaptic transmission

–A. Taflia (PhD), D. Fresche (PhD), E. Boissard, (PhD)



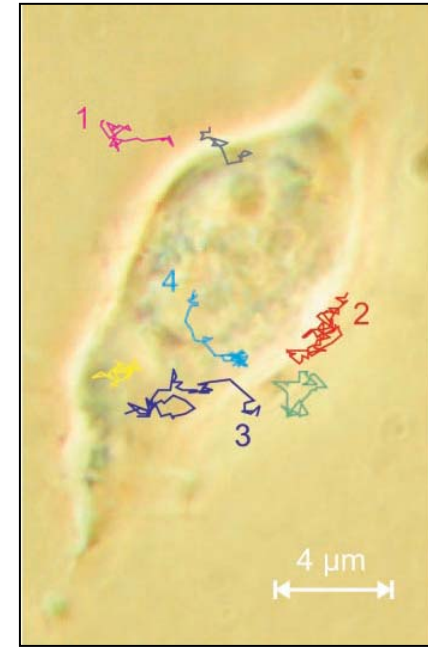
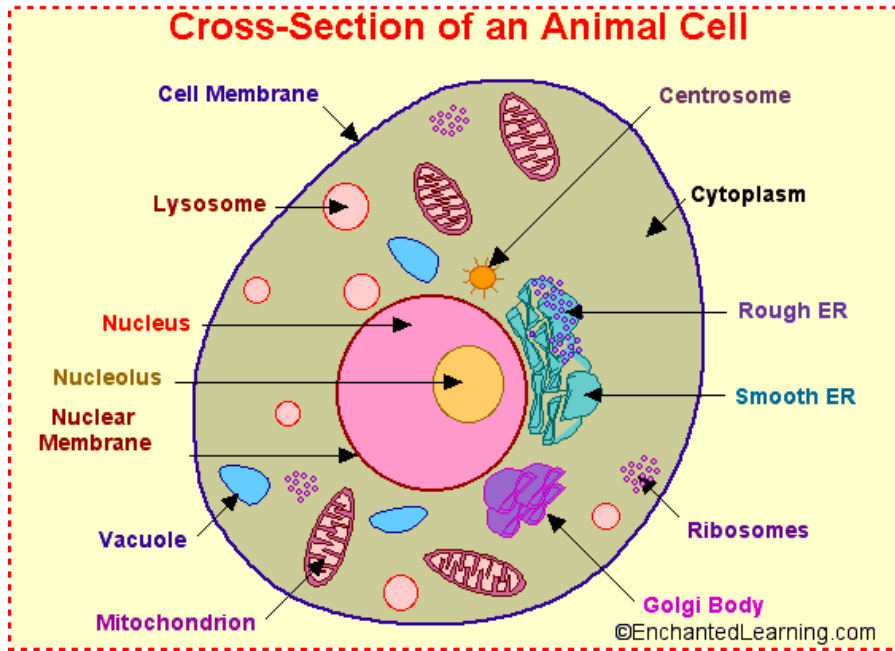
## •Neuroglial interactions, modeling and experiments

–J.Sibille (PhD), K. Tsaneva (Postdoc)

## •Mathematical modeling of cellular biology

– I.Kupka, (Emeritus)

# My ERC Research project



How virus infect cells? How DNA materials reach the cell nucleus?

**The major goal of the project is to model molecular intracellular trafficking.**

