

# QUIZ

# 10/2/2025

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Elion and Hitchings, received the **1988 Nobel Prize in Physiology or Medicine** for their pioneering methods for drug design and development. Their **initial discovery was an immunosuppressant** which lead to a remarkable improvement in graft survival. Which was that drug

1.Cyclosporine

2.OKT3

3.Mycophenolate Mofetil

4. Azathioprine

Answer : 4 AZATHIOPRINE



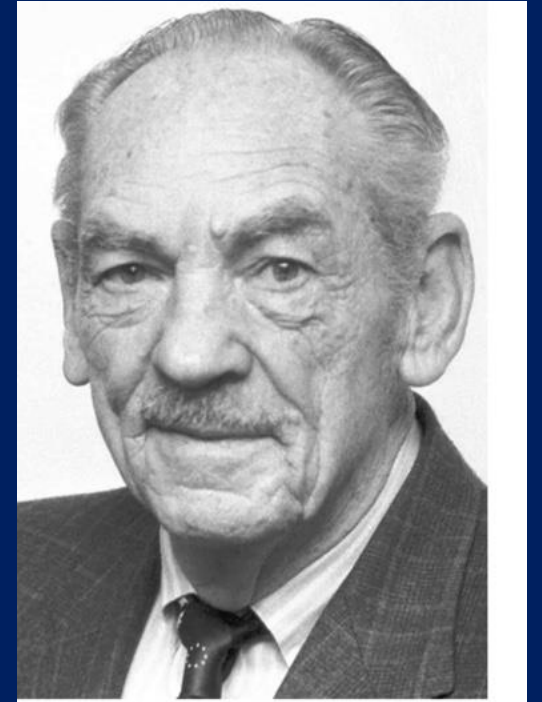
*"Gertrude B. Elion and George H. Hitchings"*

Nobel Prize in Physiology or Medicine 1988

for their discoveries of important principles for  
drug treatment

Discoveries include

**AZATHIOPRINE, ACYCLOVIR,  
MERCAPTOPURINE, ALLOPURINOL,  
PYRIMETHAMINE, TRIMETHOPRIM**



# WINNER

Dr Vigneshwaran S

2nd year DrNB pg

Lakeshore hospital

Kochi

## Question No: 2

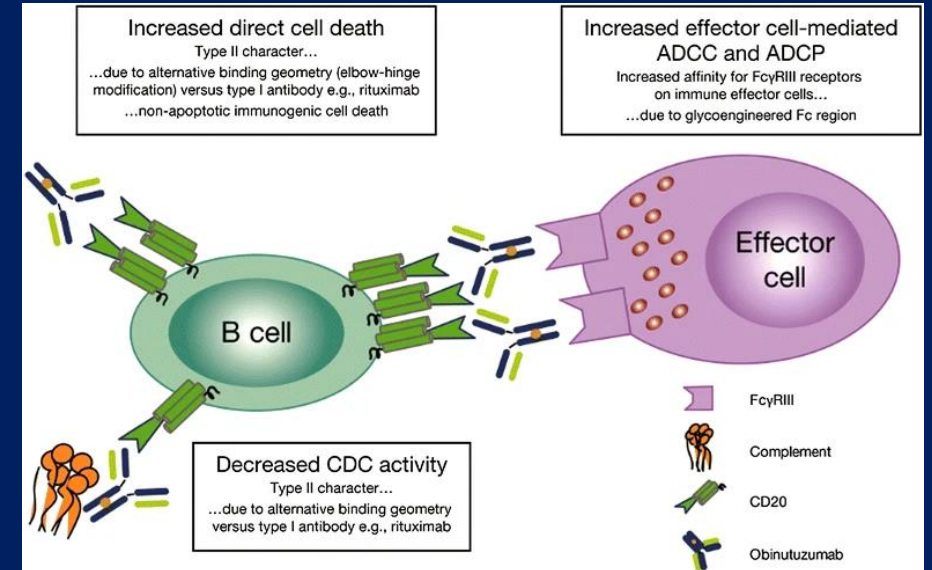
Obinutuzumab, a promising monoclonal antibody has shown some great results in management of Lupus and other glomerular disorders. Which of the following best describes its primary mechanism of action?

1. Inhibition of B-cell receptor signaling through direct binding to CD20
2. Induction of antibody-dependent cellular cytotoxicity (ADCC) through engagement of Fc $\gamma$  receptors on immune cells
3. Inhibition of the complement system, preventing complement-mediated cytotoxicity
4. Direct apoptosis via crosslinking of CD20 and activation of extrinsic apoptosis pathways

**Ans: 2** Induction of antibody-dependent cellular cytotoxicity (ADCC) through engagement of Fcγ receptors on immune cells

• **OBINUTUZUMAB** -

- Type II anti CD20 , fully humanized Antibody
- Unlike Type I monoclonal Ab, it depends on antibody dependent cellular cytotoxicity
- Low complement dependent cytotoxicity
- Causes Direct cell death ; but non caspase dependent induction
- Less or no CD20 modulation

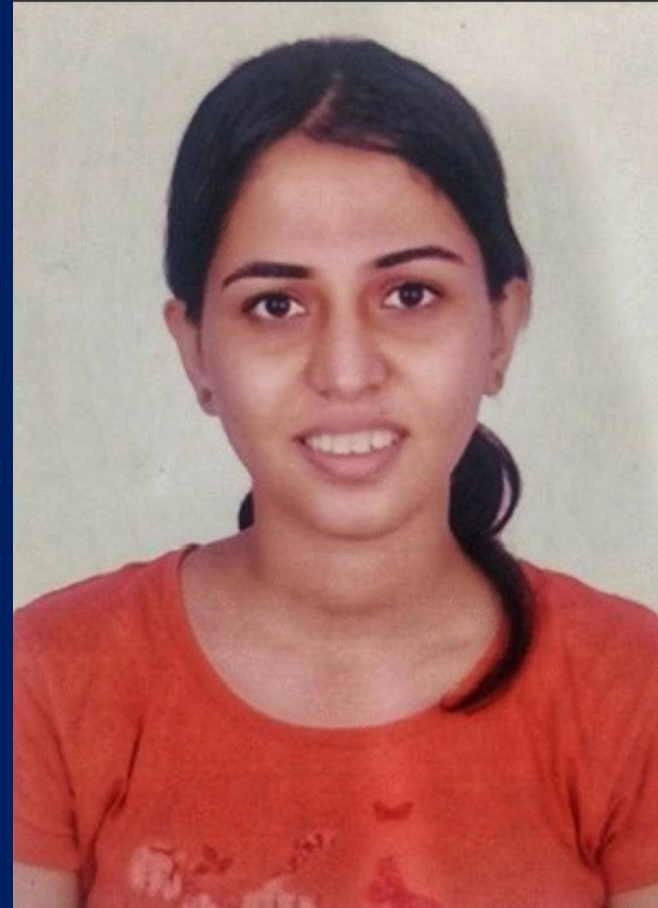


# WINNER

Dr Ankita Raisinghani

Final year student.

INU Bengaluru(Institute of  
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Thank You