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●ヒト化抗体の創製

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Greg Winter wins 2018 Nobel Prize for Chemistry

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Greg Winter from the LMB's Protein and Nucleic Acid Chemistry (PNAC) Division has been awarded the 2018 Nobel Prize for Chemistry. Greg shares half of this year's prize with George P. Smith, with the other half being awarded to Frances H. Arnold, for developing a method known as phage display and using it for the directed evolution of antibodies, with the aim of producing new pharmaceuticals.

Speaking after today's announcement, Greg responded, "It came as a bit of a shock, and I felt a bit numb for a while. It's almost like you're in a different universe. For a scientist, a Nobel Prize is the highest accolade you can get, and I'm so lucky because there are so many brilliant scientists and not enough Nobel Prizes to go around."



After studying Natural Sciences at the University of Cambridge, Greg completed a PhD at the LMB, working on the amino acid sequence of tryptophanyl tRNA synthetase from the bacterium *Bacillus stearothemophilus*. Greg continued to specialise in protein and nucleic acid sequencing through post-doctoral research in the LMB's PNAC Division and became a Group Leader in 1981.

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- Not more than 5 hydrogen bond donors
- (nitrogen or oxygen atoms with one or more hydrogen atoms)
- hydrogen bond acceptors (nitrogen or oxygen atoms)
- A molecular mass less than 500 daltons
- An octanol-water partition coefficient[5] log P not greater than 5

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