

SCI Career Options Seminar

My Career in the Pharmaceutical Industry

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University of York
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Gareth Ensor

Career Profile

Graduated with MChem Chemistry (2:1) from York- 2002

Sept 2002-Joined AstraZeneca PR&D Charnwood- Chemist

2007- Promoted to Senior Chemist

2011- Relocated to Macclesfield

Senior Scientist – Chemical Science in Pharmaceutical
Development



AstraZeneca

Company Overview

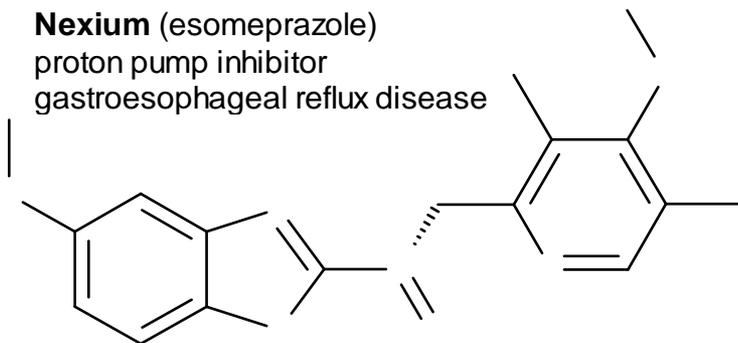
- Formed through merger of Astra AB and Zeneca in 1999
- Employ 61,000 worldwide, 15,700 in R&D
- 14 Major R&D centres in 8 countries
- Invest \$4 bn in R&D each year



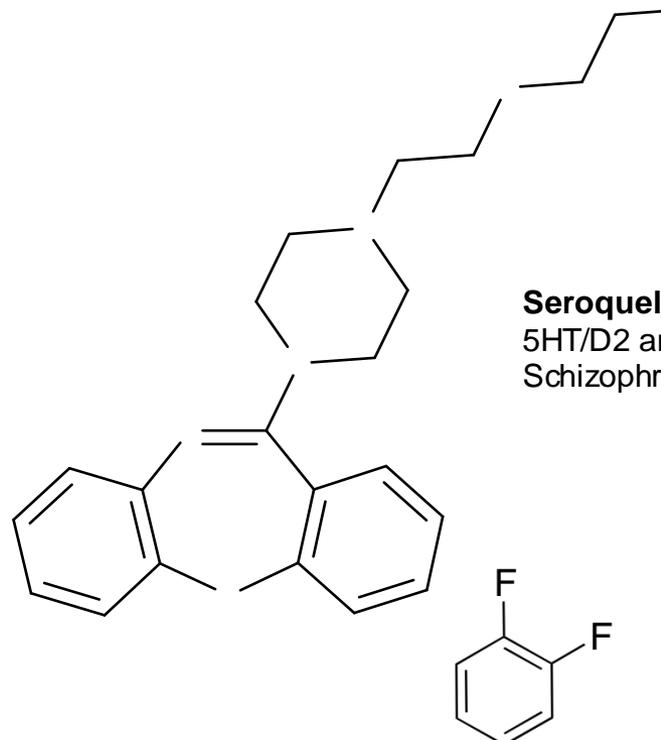
AstraZeneca Drugs

Established Products

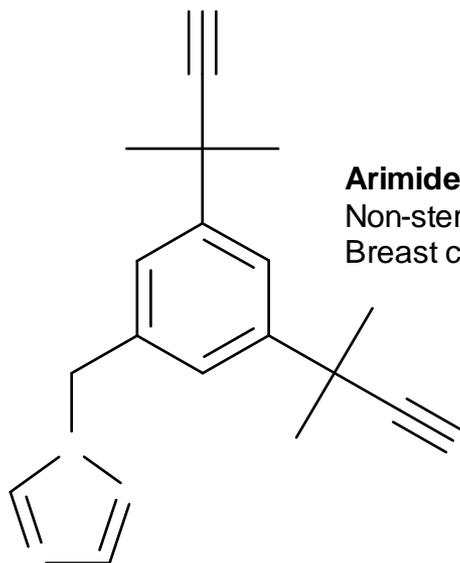
Nexium (esomeprazole)
proton pump inhibitor
gastroesophageal reflux disease



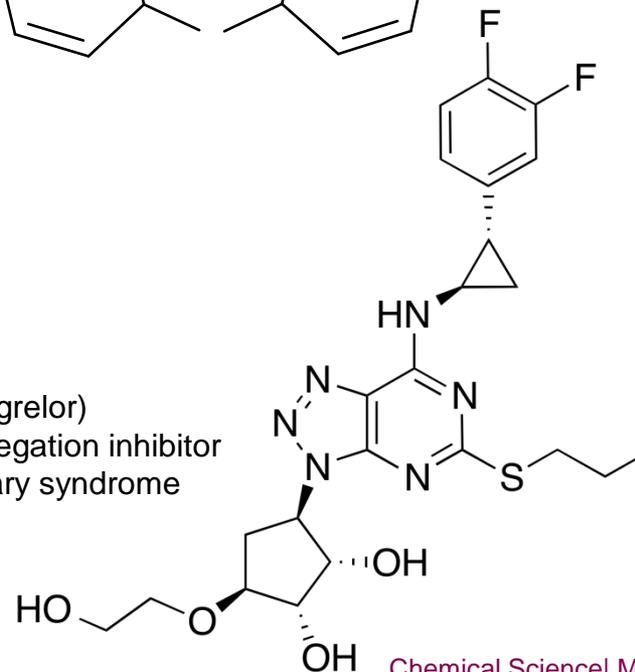
Seroquel (quetiapine)
5HT/D2 antagonist
Schizophrenia



Arimidex (anastrozole)
Non-steroidal aromatase inhibitor
Breast cancer



Brilinta (ticagrelor)
Platelet aggregation inhibitor
Acute coronary syndrome



Senior Scientist- Chemical Science

Role Description

- Develop robust processes for manufacture of drug substance
- Development and commercial- support campaigns
- Route design
- Process design, optimisation and understanding: -
- Contribute to regulatory submissions
- Technical support for branded products

S AFETY
E NVIRONMENTAL
L EGAL
E CONOMICS
C ONTROL
T HROUGHPUT

(*Chem.Rev.*,**2006**, **106**, 3002-3027)





Senior Scientist- Chemical Science

Other Aspects Of My Role

- Hydrogenation lab co-ordinator
- Scale-up Risk assessment facilitator
- Workplace health and safety e.g. Department safety rep
- Continuous improvement
- Implementation of new IT systems
- Secondment opportunities



Senior Scientist- Chemical Science

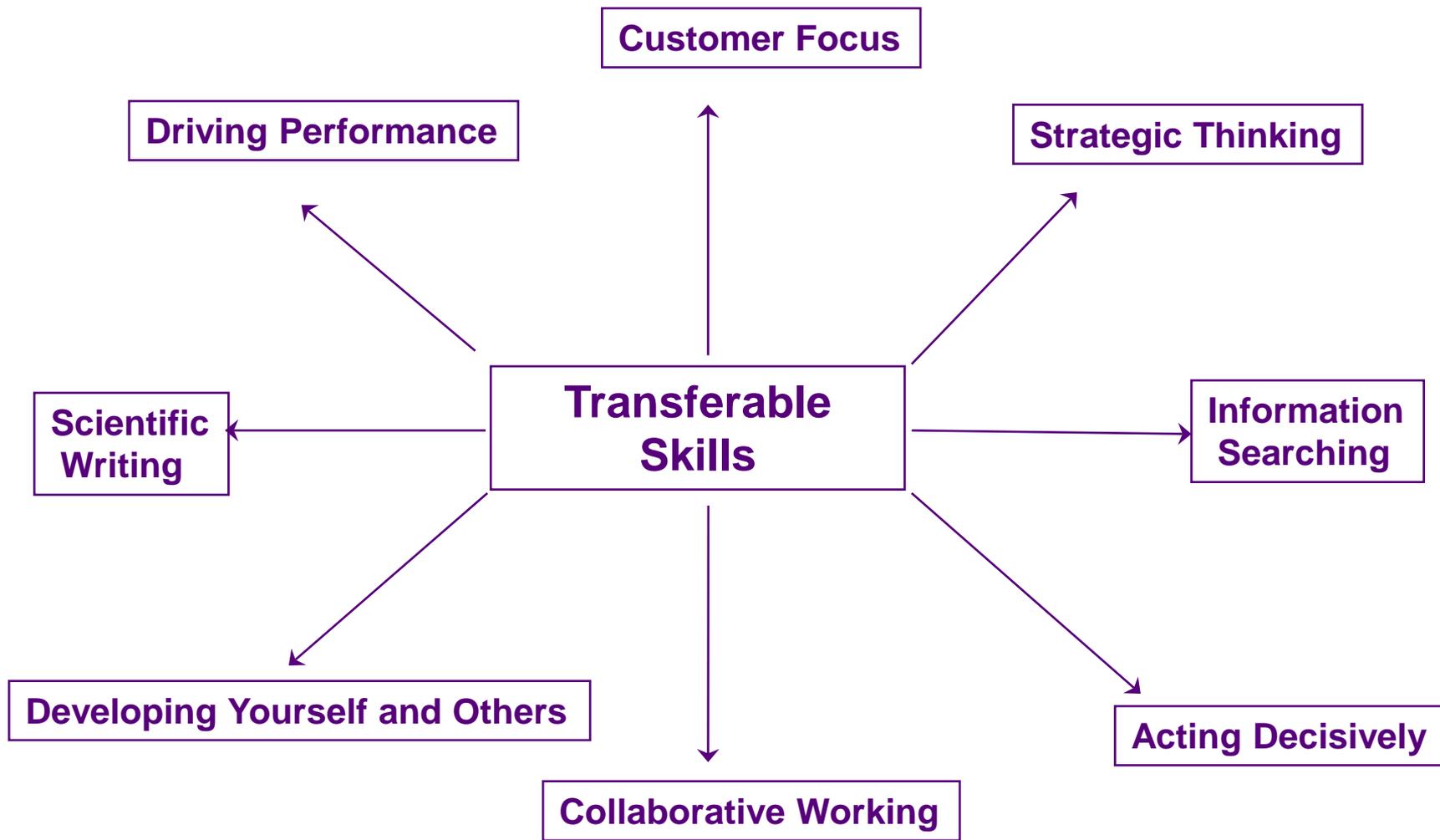
What I Like/ Don't Like About My Role

- Exposure to wide range of challenging chemistry
- Learning from scaling up of processes
- Making it to market- inspiration
- Bureaucracy
- IT issues



Senior Scientist- Chemical Science

Transferable Skills



A Career in Process Chemistry

Career Tips

- It's not just bucket chemistry!
- Industrial experience is desirable (but not essential!)
- Broaden your horizons- be prepared to move
- Attend careers events/ fairs
- Get connected- if you don't ask you don't get!
- Use all available resources-e.g. LinkedIn, New Scientist website etc.



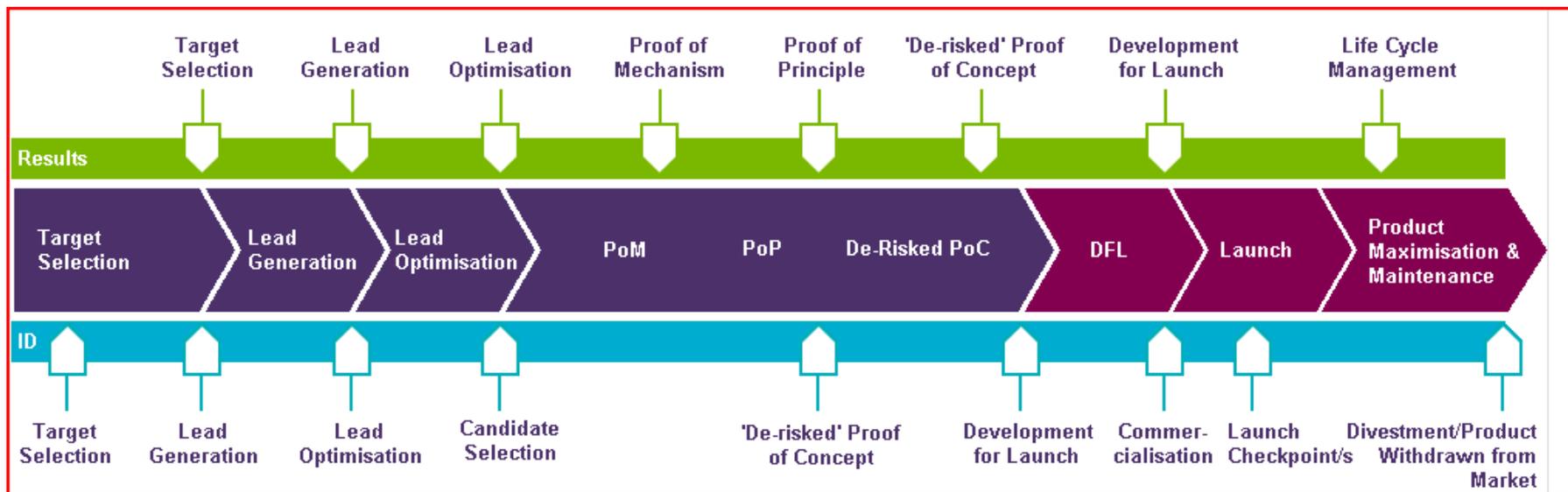
Any Questions?



Back-up Slides



R&D Operating Model Development Timeline



Working interactions

