

Anatomy of a biostatistician

(at Genentech, Inc. in ECD ITGR)

19 November 2008

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Objective

- To inform you of my current position and how I got there
- So that you may determine if such a career is appealing to you, and
- If it is appealing, you have some idea of how to pursue such a career.

Outline

- What I do
- How I got my job
- Background
- 5 things I like to keep in mind
- Q & A

What I do

Create clinical development plan
Contribute to the target product
profile

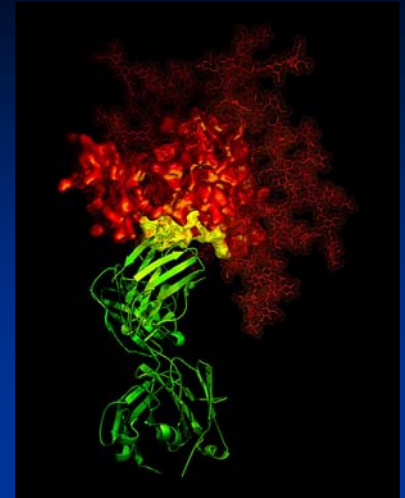
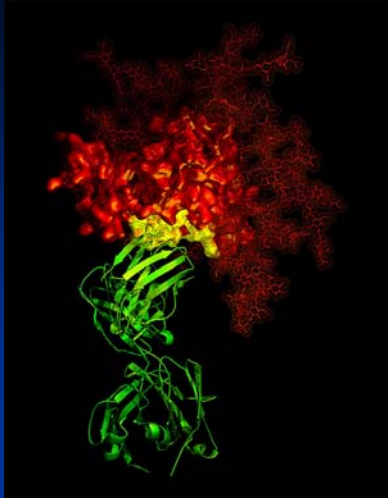


File investigational new drug (IND)
application or clinical trial application
(CTA)

Design Phase I (first-in-human)
studies

Analyze Phase I data

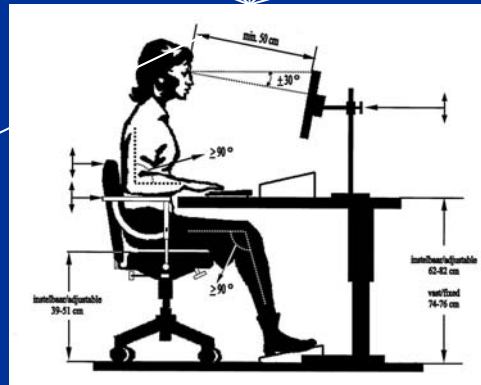
Phase II



What I do (2)



What I do (3)



How I got my job



Background

Bethesda-Chevy Chase High School

Barry M. Goldwater Scholarship

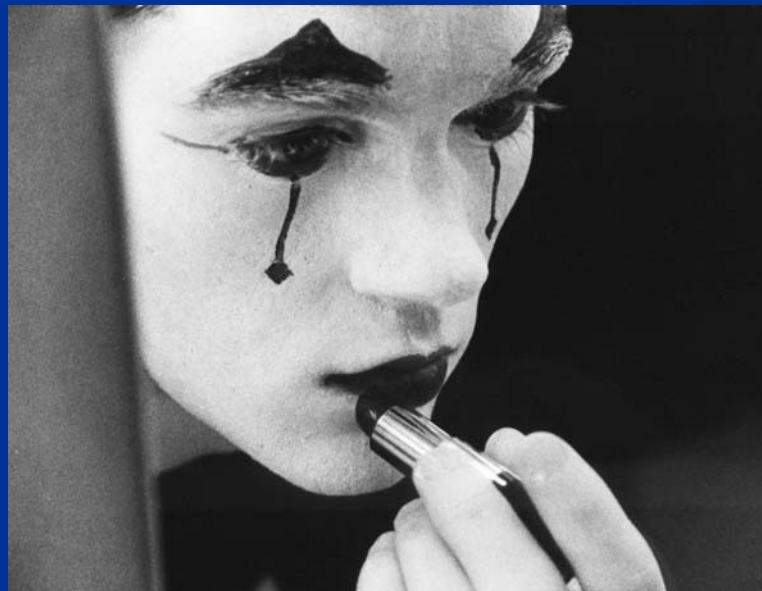
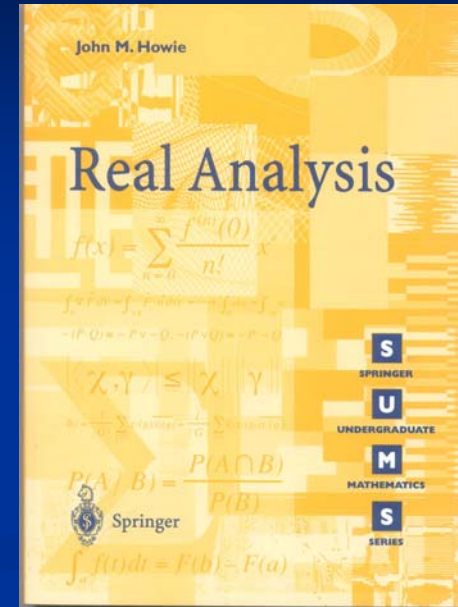
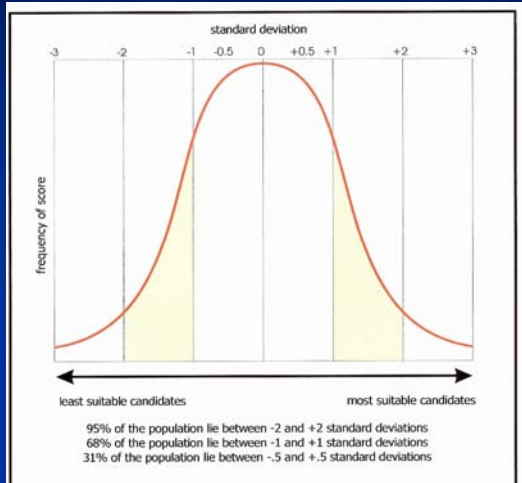


1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008



Cancer Research and Biostatistics

Pomona College



$$\begin{aligned} \text{a)} & 2x - y + z = 3 \\ \text{b)} & x + y = -1 \\ \text{c)} & 3x - y - 2z = 7 \end{aligned}$$

$$\begin{aligned} 2 + 2 + z &= 3 \\ 4 + z &= 3 \\ z &= -1 \end{aligned}$$

$$\begin{aligned} \text{d)} & a + b \quad 3x + z = 2 \\ \text{e)} & b + c \quad 4x - 2z = 6 \end{aligned}$$

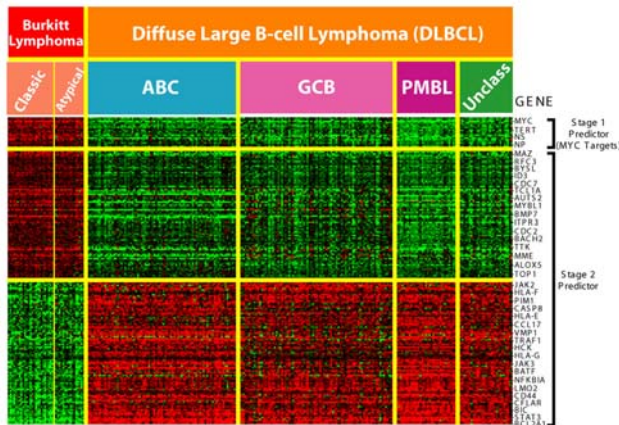
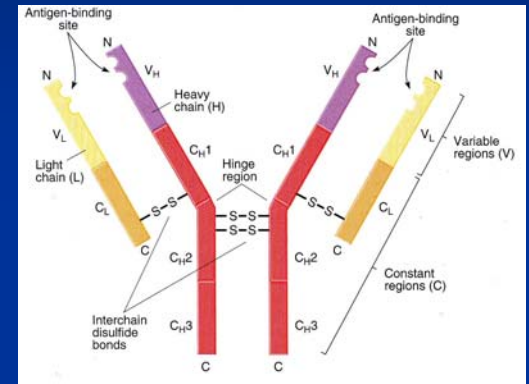
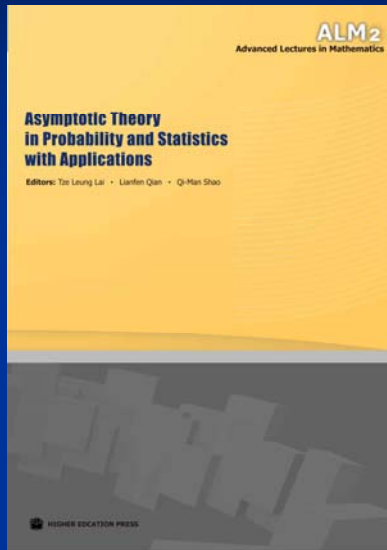
$$\begin{aligned} 2d & 6x + 2z = 4 \\ e & 4x - 2z = 6 \end{aligned}$$

$$10x = 10$$

$$x = 1 \quad y = -2 \quad z = -1$$

$$\left[\begin{array}{ccc|c} 2 & -1 & 1 & 3 \\ 1 & 1 & 0 & -1 \\ 3 & -1 & -2 & 7 \end{array} \right]$$

Stanford University



5 things I like to keep in mind

- Know what interests you and clearly communicate it
- Take advantage of opportunities, even if they are not obviously relevant
- Keep improving your technical skills and increasing your knowledge
- Work to improve communication skills
- Be patient. The effect of one's influence may not be immediately visible.

On-line resources

- Barry M. Goldwater Scholarship
 - <http://www.act.org/goldwater/index.html>
- Jack Kent Cooke Foundation
 - <http://www.jkcf.org/>
- Department of Statistics, Stanford University
 - <http://www-stat.stanford.edu/>
- Genentech, Inc.
 - <http://www.gene.com/>

Questions? Comments?