

# One Scientist's Experience







lgG

Development
Philosophy
Survival Skills



# NIH: Biographical Sketch

#### Checkpoint I PhD

Checkpoint II Post-doc

Checkpoint III Program Building

New

#### 2009

#### BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

IAME POSITION TITL				
Michael G. McHeyzer-Williams	Professor	Professor		
eRA COMMONS USER NAME				
mcheyzer				
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)				
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY	
University of Melbourne, Melbourne, Australia	B.Sc.	1986	Immunology & Pathology	
University of Melbourne, Melbourne, Australia	B.Sc.(Hons)	1987	Immunology	
University of Melbourne, Melbourne, Australia	Ph.D.	1991	Immunology	
Stanford University, Stanford, CA.	Post-doctoral	1995	Immunology	

#### A. Positions and Honors

#### Professional Positions

- 2009 present Professor, The Scripps Research Institute, Department of Immunology and Microbial Science, La Jolla, CA.
   2001 2008 Associate Professor with Tenure, The Scripps Research Institute, Department of
- Immunology and Microbial Science, La Jolla, CA.
- 1995 2001 Assistant Professor, Duke University Medical Center, Department of Immunology, Durham, NC.
- 1991 1995 Lucille P. Markey Fellow, Stanford University, Department of Microbiology and Immunology, Howard Hughes Medical Research Laboratories, Stanford, CA.
- 1988 1991 National Health & Medical Research Council Scholar, University of Melbourne, The Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia.

#### **Ongoing Professional Appointments and Activities**

- 2005 Associate Editor, Immunity
- 2005 Editorial Board, Current Immunology Reviews
- 2005 Member, NIAID CMIB Study Section
- 2004 Council of the Midwinter Conference of Immunologists
- 2003 Council of the La Jolla Immunology Conference
- 2002 2005 Associate Editor, The Journal of Immunology Scientific Advisory Board, Athersys Inc., Cleveland, OH

#### Honors and Awards

- 1992 1995 Lucille P. Markey Visiting Scholars Award
- 1989 1990 National Health & Medical Research Council Biomedical Research Award
- 1988 Australian Commonwealth Postgraduate Research Award
- Patent: Altman, J.D., McHeyzer-Williams, M.G. and Davis, M.M. (1995) (File no: A-60471/BIR STAN-173). MHC-antigen complexes (tetramers) for detecting and purifying antigen-specific T cells.
- B. Selected publications

## Behind the Biographical Sketch

B.Sc

# ENJOY what you do & Do what you ENJOY...



# **MMW** Timeline 1988 WEHI 1992 STANFORD 1996 DUKE 2002 TSRI 2008 TSRI



### The "FIVE YEAR" Rule

PhD --- TRAINING Post-Doc --- TESTING Getting STARTED

## **Getting ESTABLISHED**



Staying FRESH

**OVER** the hill

Checkpoints are also Developmental JUNCTURES



What is Success for Me? You?

Getting a job? Keeping a job? Being promoted? Making a difference?



Publishing Moving the field forward Being INVOLVED

Effective Research Program Science & People & FUN

ENJOY what you do & Do what you ENJOY...

# People are Everything

**Best Analogy** 

Artisan to Artist

Producer / Director / Actor What Type of Team!!!

#### **Scientists Need**

Intellectual Capacity Inquisitiveness & Curiosity Desire to Question



**KNOW** 

YOURSELF

Creativity Boldness Integrity Persistence





### People are Everything

#### Interactivity & Communicator

Whether in academic or industry Consistent throughout career: CONNECT with OTHERS CONNECT with your Community Seek FEEDBACK Find MENTORS





For ME:

Sometimes you're disagreeing Sometimes you're agreeing

> It's not personal... Its fun It's a privilege





### Acknowledgements

#### MMW Alumni

Dan Stetson (DBS: 1995-1999) University of Washington, WA Melinda Cool Black (MYB: 1996-1997) Whatcom College, WA John Mikszta (JAM: 1996-1999) BD Technologies, NC Gabriel Bikah (GAB: 1997-2000) Bayer Biological Research, NC Rebecca Pogue-Caley (RPC: 1997-2000) INC Research, NC Joanne Fanelli-Panus (JFP: 1998-2001) Deceased 2009 David Driver (DJD: 1998-2001) Intercell, MD Jessica Ebright (JNE: 2000-2001) University of Texas Austin, TX Chad McCrea (CMC: 2000-2001) University of Texas Austin, TX Chad McCrea (CMC: 2000-2001) Amylin Pharmaceuticals, CA Mike Eisenbraun (MDE: 2000-2004) Pfizer Vaccine Research, CA Laurent Malherbe (LPM:2001-2006) Blood Research Institute, WI Bishnu Nayak (BPN: 2002-2005) GNF, CA Adam O'Connor (APO: 2002-2005) Lawyer, CA Karen Cerveny (2004-2009) Self-employed, CA Martin Ivarsson (MAI: 2007) Karolinskia Institute, Sweden

Nicolas Fazilleau (NRF: 2005-2009) INSERM, Toulouse, France









Nadege Pelletier (GG: 2005-pres) Linda Mark (LKM: 2007-pres) Tiffany Perkins (TAP: 2007-pres) Shinji Okitsu (SLO: 2007-pres) Eddie Urich (EUR: 2007-pres) Robert Amezquita (RAA: 2008-pres) Jill Roughan (JER: 2008-pres) Joe Gassert (JLG: 2009-pres)







#### A personal perspective

## I believe it generally works!

An imperfect process

with personality

and peer-level accountability

#### **CREDIBILITY & IMPORTANCE**



Two GOLDEN Rules

**A Personal Perspective** 

1. **PUBLISH** – post doctoral work

2. **CONVERT** – don't wait!

Transition is a critical time

DISTINGUISH, DISTINGUISH, DISTINGUISH

TO WAIT OR NOT TO WAIT???



Two Types of Reviewer

Read THEN review (TWO PASSES = DETAILS)

Read AND review (ONE PASS = CLARITY)

**SUBSTANCE** is everything but don't forget **FORM** 



#### SIGNIFICANCE

#### The First and Major Hurdle!

- 1. One paragraph to define the problem, establish its importance and your presence, state the hypothesis and outline your approach
- 2. Summarize everything for the reviewer here
- 3. Give them the arguments and information to use in your favor at the study section
- 4. Write it as a guide then come back and RE-WRITE it to fit the details

#### The most CRITICAL page of the Proposal

#### BACKGROUND

- 1. Don't summarize the whole literature...FOCUS
- 2. Detail what they need to know to evaluate YOUR PROPOSAL ... not the entire field
- 3. Lead into each specific aim...Rationale
- 4. Repetition:
  - -Tell them what you're going to tell them
  - -Tell them
  - -Tell them what you've just told them

As a reviewer...I want to enjoy a clear narrative and learn something new.

#### PRELIMINARY RESULTS

#### Your Opportunity to Impress!

- 1. Don't assume the reviewer is familiar with your work
- 2. Organize by results pertinent to each specific aim
- 3. Keep relating back to the proposed experiments
- 4. Demonstrate that you have the capacity and experience
- 5. Preliminary results that indicate plausibility of approach and likelihood for success

#### For ME : This is the MAJOR FOCUS of my CRITIQUE!



#### **RESEARCH DESIGN**

#### **Don't Burn Out HERE!!**

- 1. Leave yourself plenty of room...don't die out on the last aim
- 2. Don't be OVER-AMBITIOUS...depth not breadth!
- 3. Don't be **BORING** either!
- 4. Keep **RESET** the scene ... assume the reviewer is starting here

Structure well to cover all bases...details and ease of reading

## Reviewing ROls in Immunology

#### **ROI CRITIQUE**

- 1. SIGNIFICANCE
- 2. APPROACH
- 3. INNOVATION
- **4. INVESTIGATOR**

**ENVIRONMENT** 

#### Weight the review criteria as you feel appropriate



Surviva Skills

## **SUBSTANCE** is everything but don't forget **FORM**

#### DISTINGUISH, DISTINGUISH, DISTINGUISH