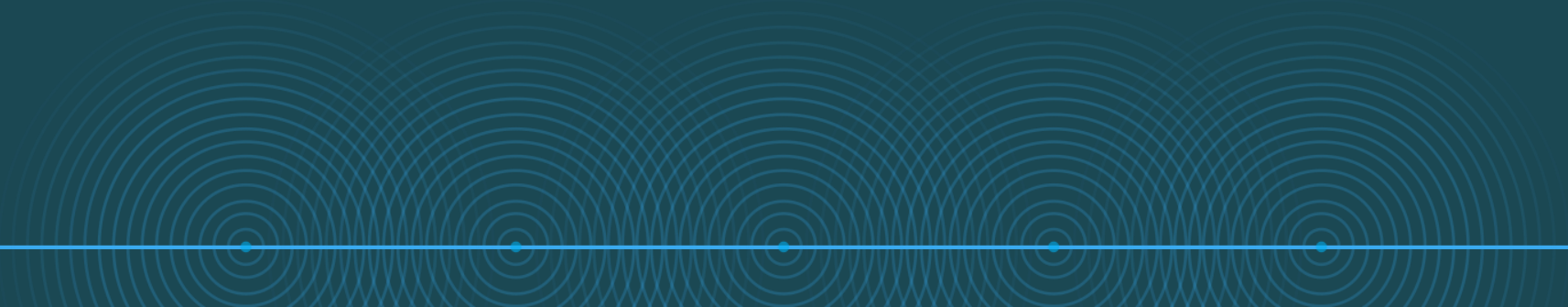


Transitioning from Academia to Industry

Drs. Craig Gorin, Samuel Levi and Alessia Amodio

28 May 2020



Dr. Craig Gorin

Associate Research Scientist at Dow



My Background

Education

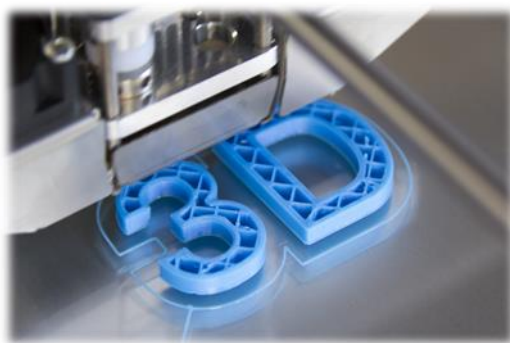
A.B. Chemistry, Harvard University (2009)

Ph.D. Chemistry, Stanford University (2014)

Career

Dow - R&D Rotational Assignments Program (2014-2016)

Dow - Formulation, Automation, Materials Science Core R&D (Current)



Materials development in diverse, exciting applications



Differences between Industrial and Academic R&D

Day-to-Day Activities



New Skills For Success



One perspective from R&D at a large, materials company

How is an Industrial Researcher's Work Different?



Safety Culture



Team-based Projects



Business Mindset



New Skills for Success



Project Management

- Team Leadership
- Effective Communication
- Stakeholder Management

Networking/Mentorship

- Find Complementary Collaborators
- Leverage Past Learnings & Efforts
- Build Reputation



Basic Business Acumen

- Learn the Language
- Understand Your Company

One Last Favorite Difference

X



Work-life Balance

Dr. Sam Levi

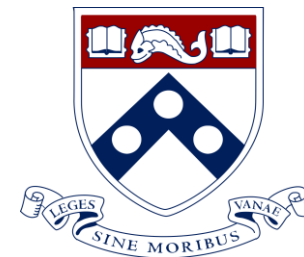
Senior Scientist at Merck & Co.



My Background

Education

B.A./M.S. from University of Pennsylvania (2010-2014)



Ph.D. from Harvard University (2014-2018)



Career

Merck & Co. Senior Scientist (2019-present)

– Discovery chemistry in Immuno-oncology



Awards

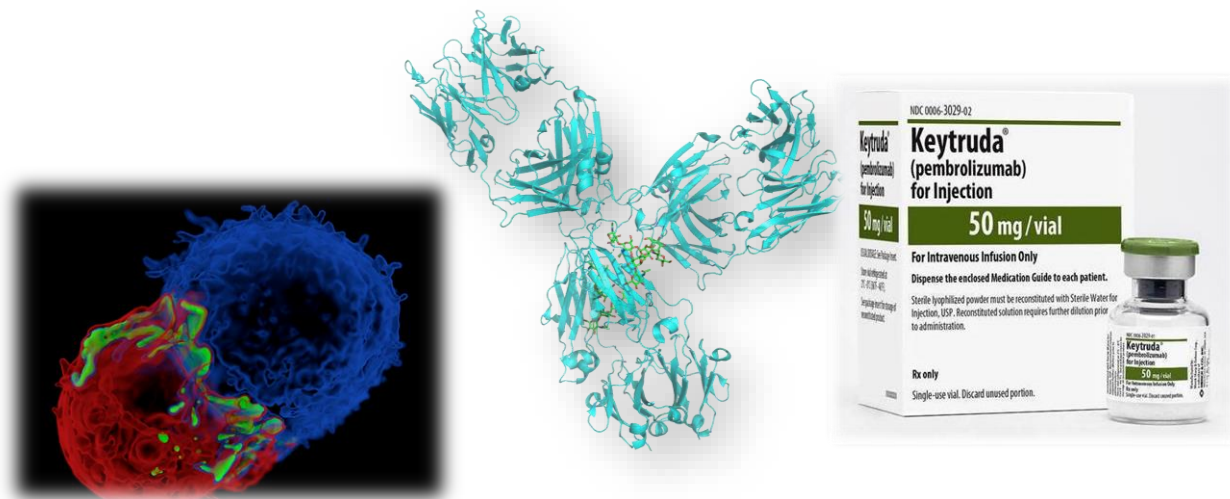
Reaxys PhD Prize Finalist 2019



Reaxys PhD Prize

Why I Chose “Pharma”

- Renaissance in Pharma R&D (2014-present)
 - The rise of immuno-oncology and drugging the “undruggable”



- Immunotherapy and checkpoint blockade (PD-1, PD-L1, CTLA-4)

- Molecular glues, bifunctional molecules, and the rebirth of chemical biology



Why I Chose “Pharma”

Emphasis on innovative and enabling science

Biocatalytic Asymmetric Synthesis of Chiral Amines from Ketones Applied to Sitagliptin Manufacture

Christopher K. Savile,^{1*} Jacob M. Janey,^{2*} Emily C. Mundorff,¹ Jeffrey C. Moore,² Sarena Tam,¹ William R. Jarvis,¹ Jeffrey C. Colbeck,¹ Anke Krebber,¹ Fred J. Fleitz,¹ Jos Brands,² Paul N. Devine,² Gjalb W. Huisman,¹ Gregory J. Hughes²

REPORT

ORGANIC CHEMISTRY

A multifunctional catalyst that stereoselectively assembles prodrugs

Daniel A. DiRocco,^{*} Yining Ji, Edward C. Sherer, Artis Klapars, Mikhail Reibarkh, James Dropinski, Rose Mathew, Peter Maligres, Alan M. Hyde, John Limanto, Andrew Brunskill, Rebecca T. Ruck, Louis-Charles Campeau, Ian W. Davies

RESEARCH ARTICLE

CANCER BIOMARKERS

Pan-tumor genomic biomarkers for PD-1 checkpoint blockade-based immunotherapy

Razvan Cristescu^{1*}, Robin Mogg^{1†}, Mark Ayers¹, Andrew Albright¹, Erin Murphy¹, Jennifer Yearley¹, Xinwei Sher¹, Xiao Qiao Liu¹, Hongchao Lu¹, Michael Nebozhyn¹, Chunsheng Zhang¹, Jared K. Lunceford¹, Andrew Joe¹, Jonathan Cheng¹, Andrea L. Webber¹, **ORGANIC CHEMISTRY**, Tanguy Y. Seiwert¹, Andrey Loboda¹, Da

Nanomole-scale high-throughput chemistry for the synthesis of complex molecules

Alexander Buitrago Santanilla,¹ Erik L. Regalado,¹ Tony Pereira,² Michael Shevlin,¹ Kevin Bateman,² Louis-Charles Campeau,¹ Jonathan Schneeweis,³ Simon Berritt,¹ Zhi-Cai Shi,⁴ Philippe Nantermet,² Yong Liu,¹ Roy Helmy,¹ Christopher J. Welch,¹ Petr Vachal,⁶ Ian W. Davies,¹ Tim Cernak,^{7*} Spencer D. Dreher^{1*}

RESEARCH ARTICLE

CELL SURFACE MAPPING

Microenvironment mapping via Dexter energy transfer on immune cells

Jacob B. Geri^{1*}, James V. Oakley^{1*}, Tamara Reyes-Robles^{2*}, Tao Wang^{1*}, Stefan J. McCarver¹, Cory H. White², Frances P. Rodriguez-Rivera³, Dann L. Parker Jr.³, Erik C. Hett², Olugbeminiyi O. Fadeyi^{2†}, Rob C. Oslund^{2†}, David W. C. MacMillan^{1†}

BIOCATALYSIS

Design of an in vitro biocatalytic cascade for the manufacture of islatravir

Mark A. Huffman^{1*}, Anna Fryszkowska^{1*}, Oscar Alvizo², Margie Borra-Garske², Kevin R. Campos¹, Keith A. Canada¹, Paul N. Devine¹, Da Duan², Jacob H. Forstater¹, Shane T. Grosser¹, Holst M. Halsey¹, Gregory J. Hughes¹, Junyong Jo¹, Leo A. Joyce^{1†}, Joshua N. Kolev¹, Jack Liang², Kevin M. Maloney¹, Benjamin F. Mann¹, Nicholas M. Marshall^{1†}, Mark McLaughlin¹, Jeffrey C. Moore¹, Grant S. Murphy¹, Christopher C. Nawrat¹, Jovana Nazor², Scott Novick², Niki R. Patel¹, Agustina Rodriguez-Granillo³, Sandra A. Robaire¹, Edward C. Sherer², Matthew D. Truppo^{1†}, Aaron M. Whittaker¹, Deeptak Verma³, Li Xiao³, Yingju Xu¹, Hao Yang¹

Differences in Industry... and What I Miss from Academia

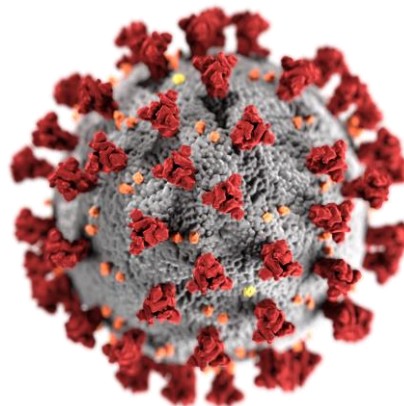
- Broad interests, expertise
- Scientific and personal development
- Emphasis on impact



- “Proof-of-concept” problem solving
- Total intellectual freedom
- Seemingly limitless time to explore

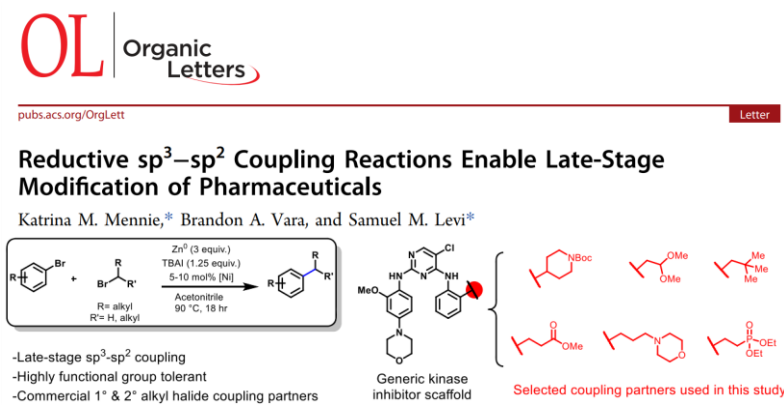
“A Typical Day”

- First thing: Reading!
 - Staying up do date
- Lab
 - To outsource or not?
- Meetings
 - Key data overview
 - Building collaborations
- **COVID-19**
 - Work from home
 - Hiring



Developing Towards What You Enjoy

- No longer “academia” vs. “industry”
 - Industrial post docs
 - Internships, co-ops
 - Joint PhDs
 - Collaborative projects



- Independent research
 - Mentorship opportunities
 - Exposure
- Love of learning

- Networking
 - Conferences, symposia, meetups, etc.

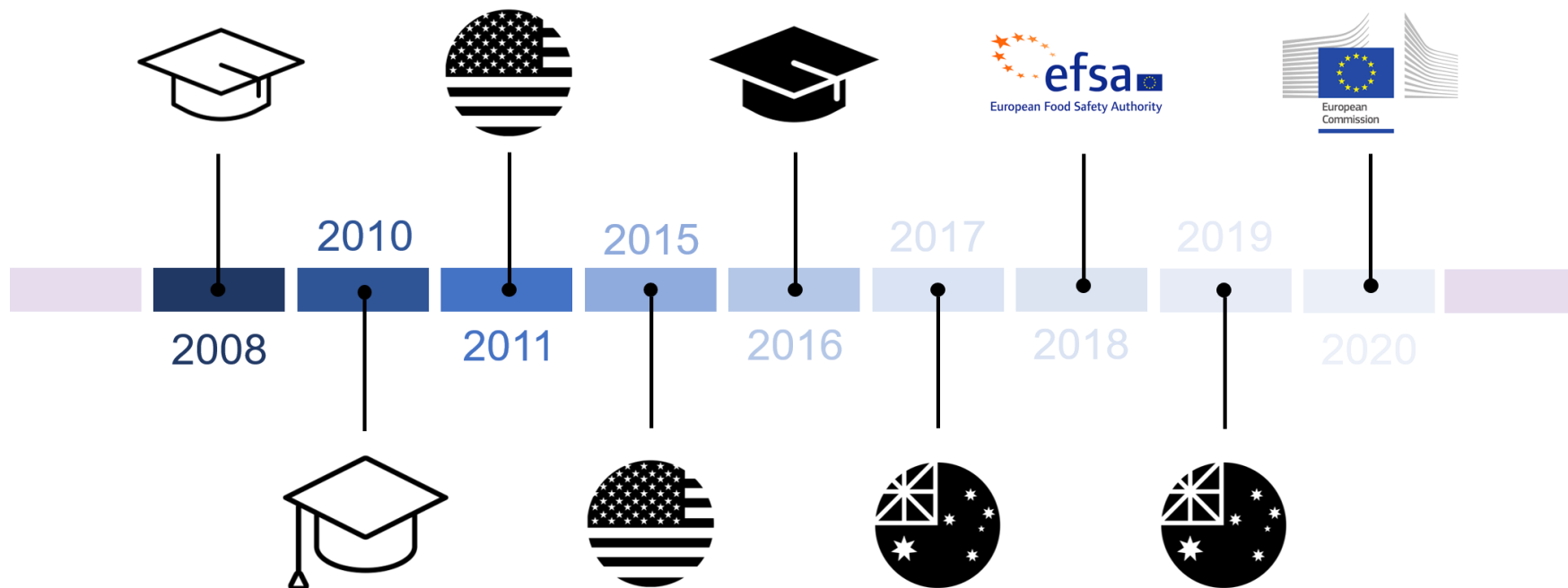


Dr. Alessia Amodio

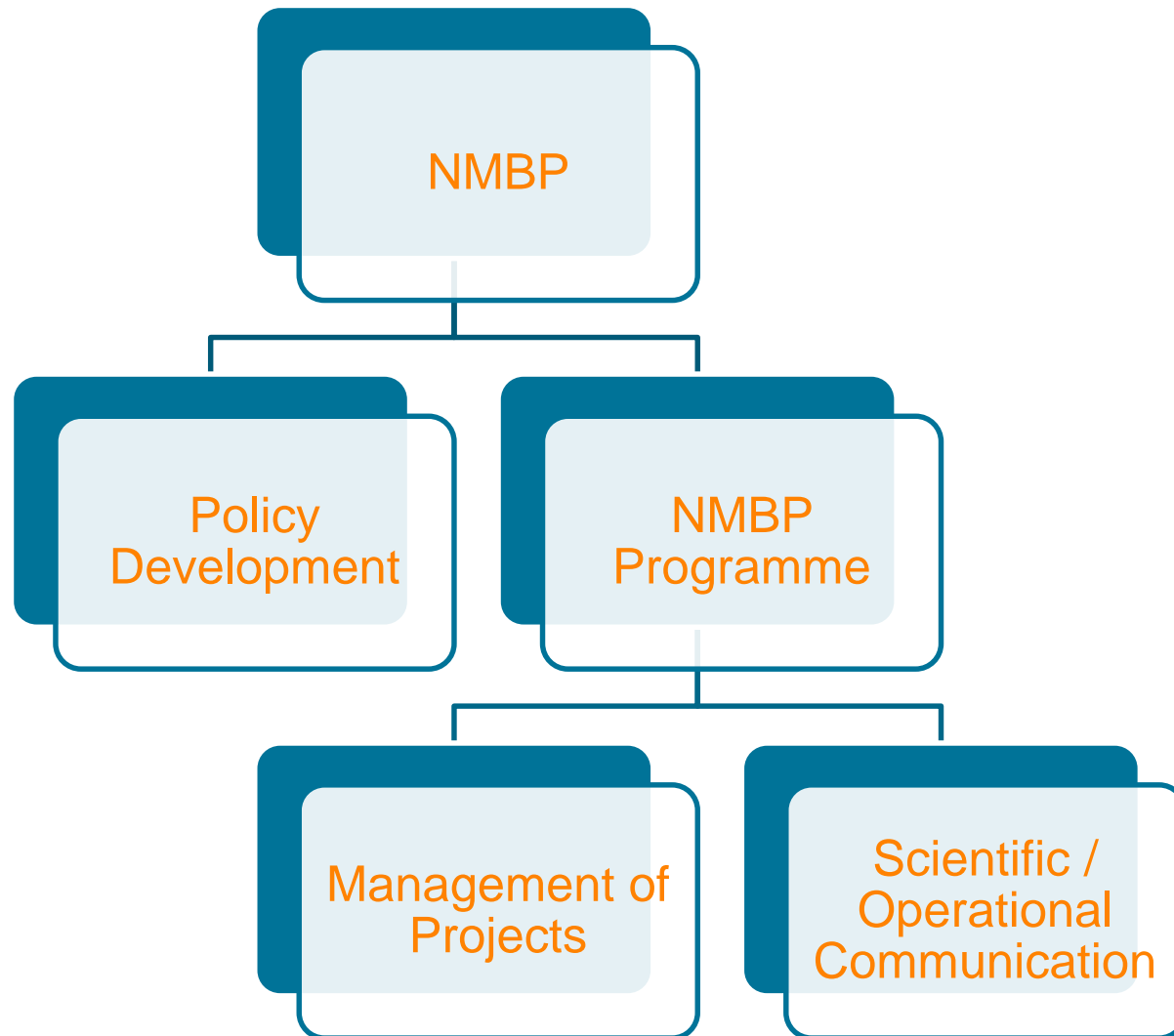
Policy and Project Officer at
European Commission, DG RTD



My Background



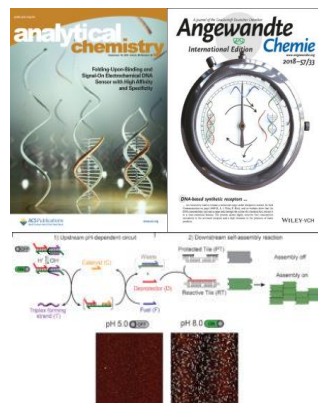
My current role – Policy Officer



Make your CV outstanding



Experience abroad



Track record



Internship / Traineeship

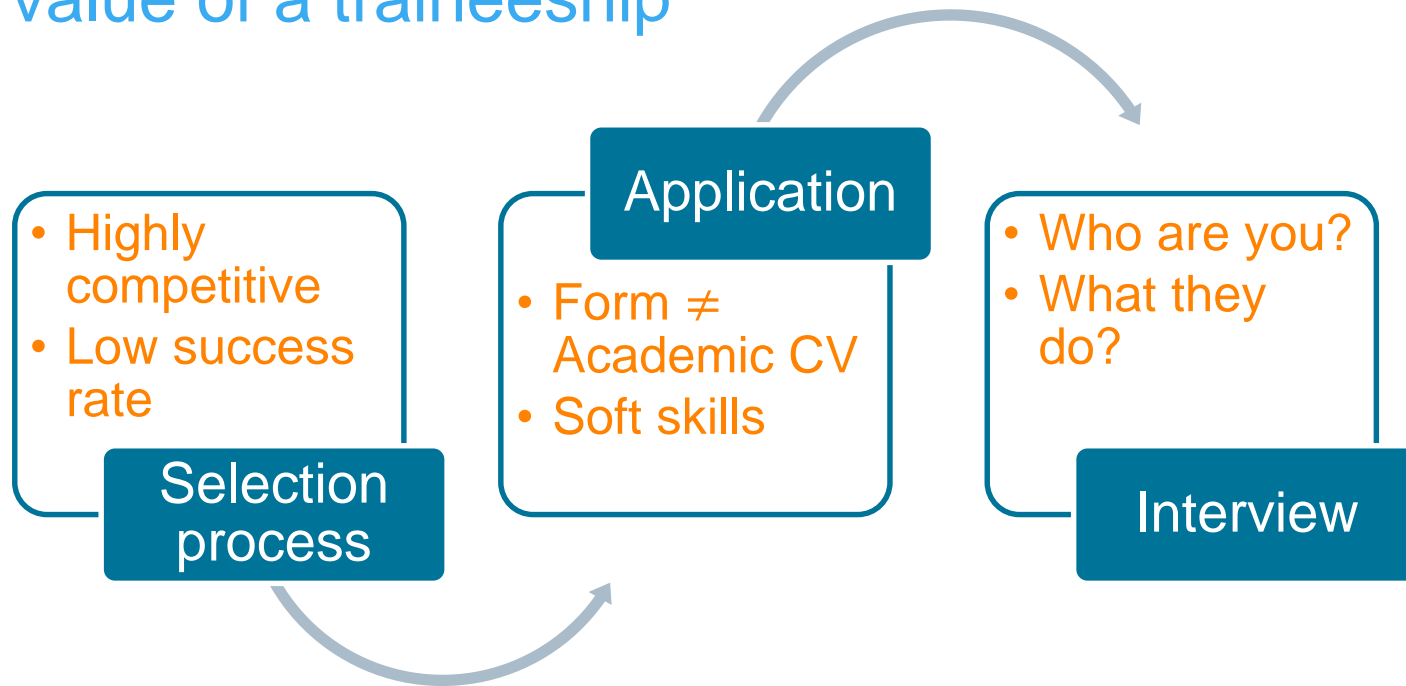


Prize / Award



Fellowship / Grant

The value of a traineeship



On-the-job experience



Professional network

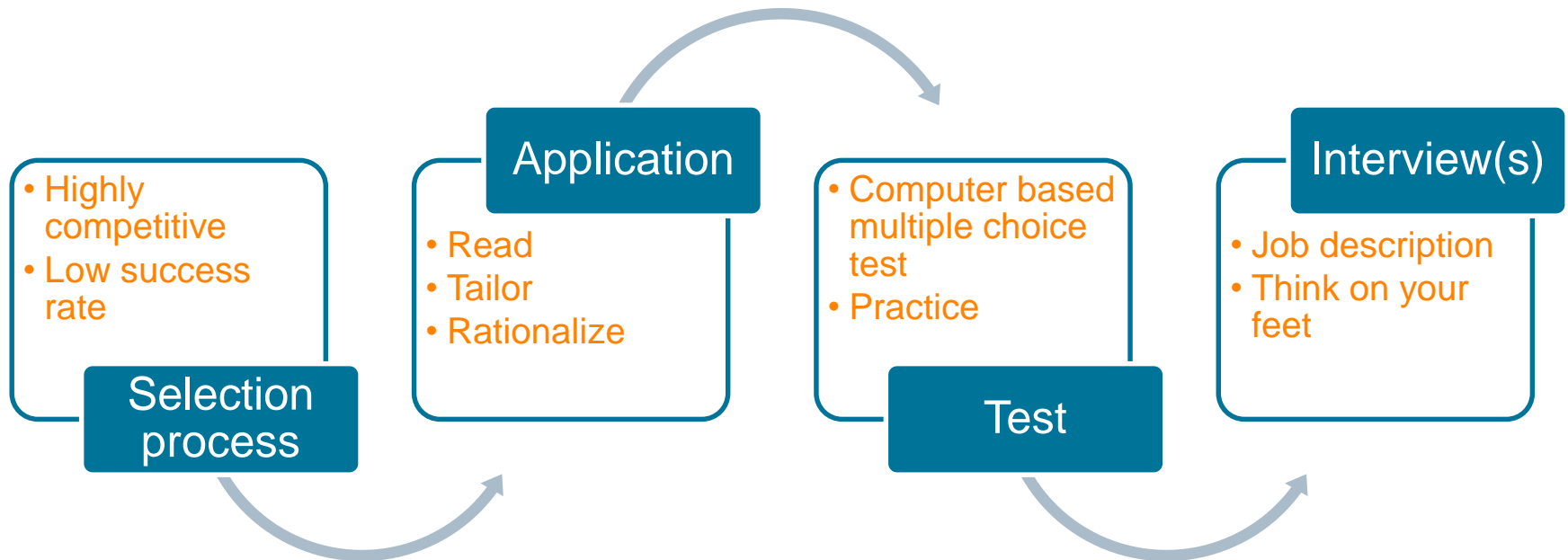


Learning and training



Boost human capital

Job position - Recruitment process



Why make the transition?



Thank you.

Ask your questions on:

Researcher Academy Mendeley Group

Follow us on Twitter: @ResearcherAcad

