

iJobs Virtual Site Visit: Teva Pharmaceuticals with Rutgers University

Mehran Yazdanian, PhD VP R&D Operations West Chester Site Head

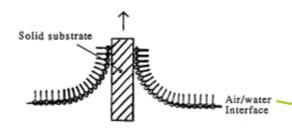
May 16, 2024

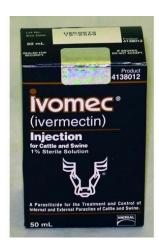
Mehran Yazdanian



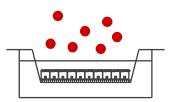


BS Biochemistry MS, PhD, Pharmaceutics



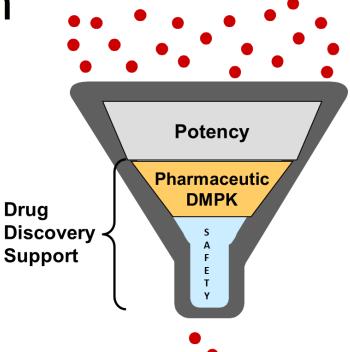






















Starting out in 1901 in Jerusalem

A story of entrepreneurship



Teva's History

1901-1940

A new pharmaceutical industry is founded

1901: Established in Jerusalem by Chaim Salomon, Moshe Levin and Yitschak Elstein

1980-1990

Global expansion

1960-1980

Consolidation of the local pharmaceutical industry

1984: Hatch-Waxman Act paves way for U.S. generic entry

1990-present

A global leader in generics/ And innovative medicines

1976: Eli Hurvitz forms Teva Pharmaceutical Industries Ltd.

We are all in for better health

1996:COPAXONE® in the US 2017-2018: AJOVY ®(R) and AUSTEDO® (R) 2023 AUSTEDO® XR



Developing Medicines & Devices Across the Globe





Teva – Snapshot



A strong portfolio of innovative, generic, biosimilar and OTC medicines











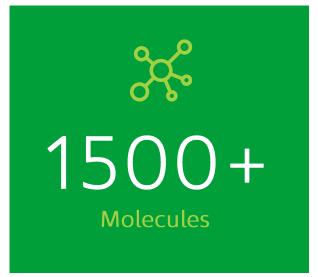
New Pivot to Growth Strategy announced in May 2023





World Leader in Generic Medicines









TOP 3
Position in 24
Markets in Europe

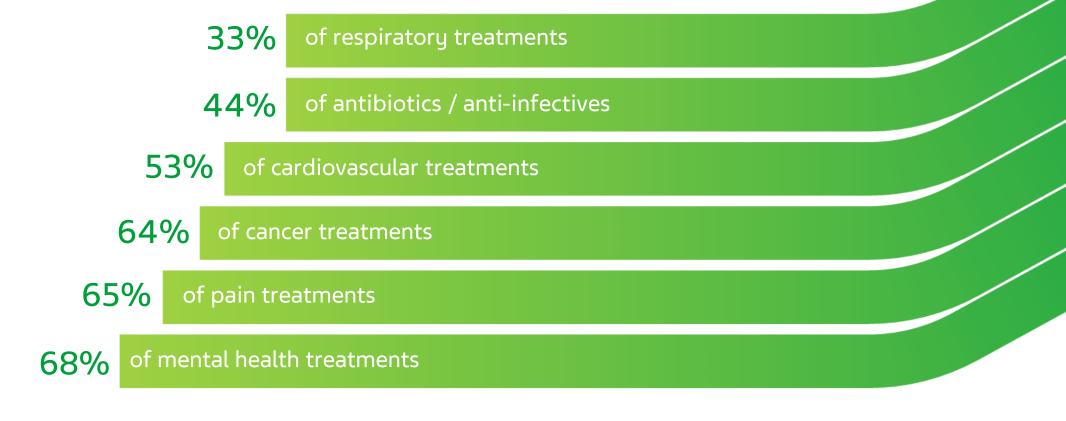


largest Rx Generics company in North America



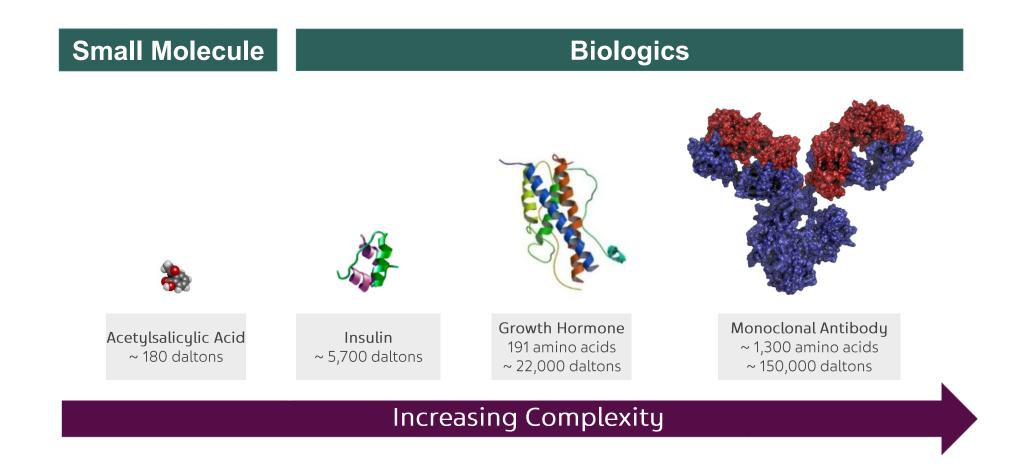
Impact of Teva's Generic Products

Of the World Health Organization's (WHO) essential medicines, we manufacture:





Developing Small Molecules to Biologicals





Our Leading Innovative Medicines

CNS







Respiratory

ProAir Respictick® (albuterol sulfate) Inhalation Powder







Oncology











We are all in for better health

"All in" means all of us but also all our energy, all our ideas, all our resources, all our innovation power... **Giving it all**.

This purpose acts as a rallying cry. It talks about a collective journey and brings together all employees under one strong commitment.

The simplicity of this sentence is a strength. It helps appropriation and ownership because it allows for personal interpretation.

LET'S MEET OUR PANELISTS

David Cragin

Senior Director, Product Science Environment, Health, Safety & Sustainability



Xin Yuan

Senior Director US
Data Science &
Analytics



Damien O Halloran

Assoc Dir, CMC Project Management



Talia M. Planas Fontánez

Occupational Toxicologist



Brian Hamilton

Senior Director, Tech Support Business partner to EMSO





Panel discussion



Round 1: Career Paths



Round 2: Current Roles



Round 3: Advise



David Cragin – Career Overview

Risk assessment is the main theme

Training

- PhD, Pharmacology & Toxicology, U. of California, Davis; BS, Zoology, U. of Rhode Island
- Board-certified American Board of Toxicology

Career

- Exxon Mobil Biomedical Sciences
- ICF Kaiser (consulting)
- Arkema (French-owned chemical company)
- Merck & Co., In EHS & Quality
- Teva Pharmaceutical, Product Science; Environment, Health, Safety & Sustainability

Academic (Adjunct)

University of the Sciences, Philadelphia (now St. Josephs), Taught "Risk assessment, Critical thinking and Health" for the "Health Policy" program.

Peking University, teach risk assessment related to drug quality for the "International Program in Engineering Management"

Beijing Normal University, teach "Environmental Risk Assessment" for the "School of Environmental Sciences"



My Journey from Credit Risk Industry to Pharma

Help businesses make data-driven decisions with AI/ML









PhD in Economics

14 years, held various roles from entry level data scientist to Global Leader, Analytics Innovation

- Credit risk
- Sales and marketing
- Supply chain
- Capital market

1 year VP Global Business New Accounts Risk

- Small business card underwriting model
- Corporate card underwriting model

~4 years
Senior Director, US
Commercial Data
Science and Analytics,
Interim Commercial
Analytics



Damien O Halloran – Career Path

BEng (Biomedical Engineering) PhD 5 Journal Articles 2 Grants

510K approved VCF 5 granted patents 2 Journal Articles

EO Validation (Batch Release) Sterility Assurance Clinical Batch Readiness

Copaxone® Pen Approval (EU) Uzedy™ LAI Approval (USA) 3 x Biologics Early Development

2017 -

1998 - 2007

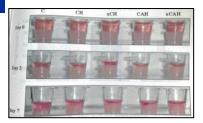
2008 - 2012

2012 - 2017 -









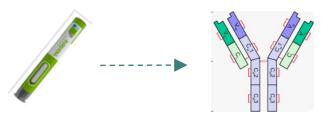




















My Career Path: Island Breezes to Garden State Dreams





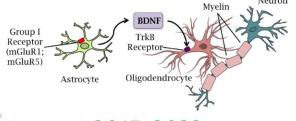
2010-2015



- MARC Fellow
- 2 Summer internships (UConn, Rutgers University)







2015-2022

PhD in Toxicology Rutgers University

- Cheryl F. Dreyfus, PhD
 - NIH Fellowships
 - BMS Fellow



Teva Pharm

Occupational Toxicologist,
Global EHS&S



Brian Hamilton – Career Path

Princeton University

- 1995 to 2000
- Ph.D. in Chemical Engineering
- Focus on colloid science / complex fluids

Unilever

- 2000 to 2004
- Research Scientist
- Personal care product R&D
- Understanding of complex fluids from grad school highly leveraged

Merck

- 2004 to 2012
- Assoc Director
 Pharmaceutical
 Commercialization
 Technology
- Focus on solids manufacturing at external partners

Merial

- 2012 to 2013
- Senior Scientist III
- Manage team
- Extended experience to animal health and liquid/semi-solid formulations

Actavis

- 2013 to 2016
- Assoc Director MS&T
- Manage team
- Support all pharmaceutical dosage forms at internal and external sites

Teva

- 2016 to Present
- Dir and Sr Dir
- Manage team directly and matrix
- Expended experience with sterile, combination products, complex products, etc
- Strategic leadership for MS&T





Round 1: Career Paths



Round 2: Current Roles



Round 3: Advise



Current Role: Product Science

Environment, Health, Safety & Sustainability

- Health-Based exposure Limits:
 - Occupational Exposure Limits to protect employees
 - Determines the level of engineering controls & PPE needed
 - Acceptable Daily Exposures (ADEs) to protect patients
 - Used by Quality for cleaning validation & risk assessments
- Safety Data Sheets (SDSs) of Teva produced Active Pharmaceutical Ingredients & Drug Products
 - Used for worker safety & to support shipping of products
- Ad hoc questions on toxicology & chemical exposure
- Predicted No Effect Concentrations (PNECs)
 - Used to assess the effect of pharmaceuticals in the environment
- Support ESG reports
 - Questions on EU REACH and other regulated chemicals
- EHS&S Academy
 - Arrange educational talks for employees



My Role at Teva US Commercial Organization

Data Science and Analytics

Innovative Medicine

Generics

Finance

Supply Chain

Human Resources

Commercial Analytics (IM)

National tracking

Marketing analytics

Field analytics

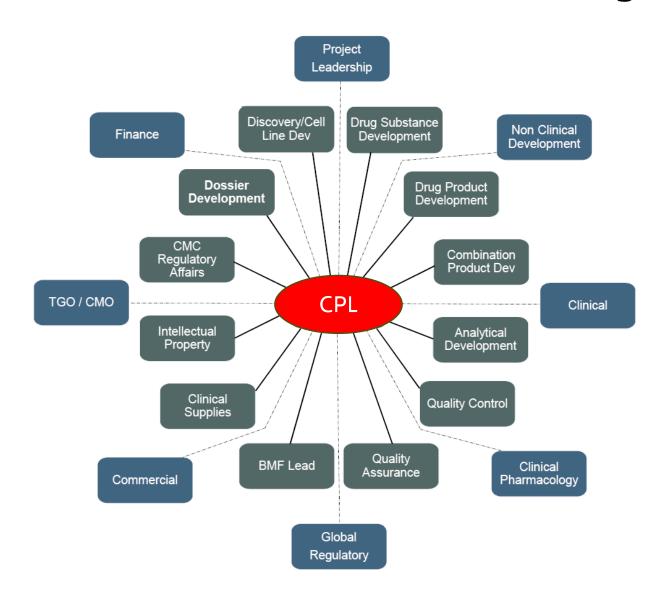
Patient services

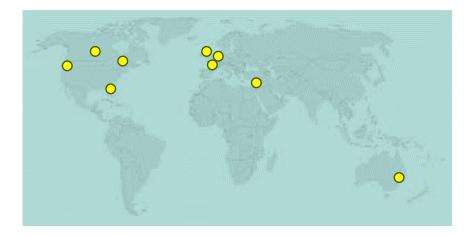
Specialty pharmacy

Digital analytics



CPL: CMC Program Leader

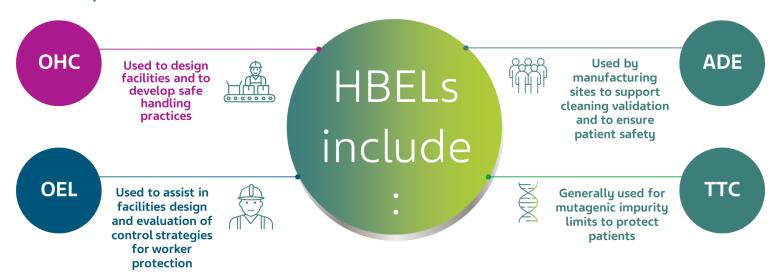






My Role as an Occupational Toxicologist

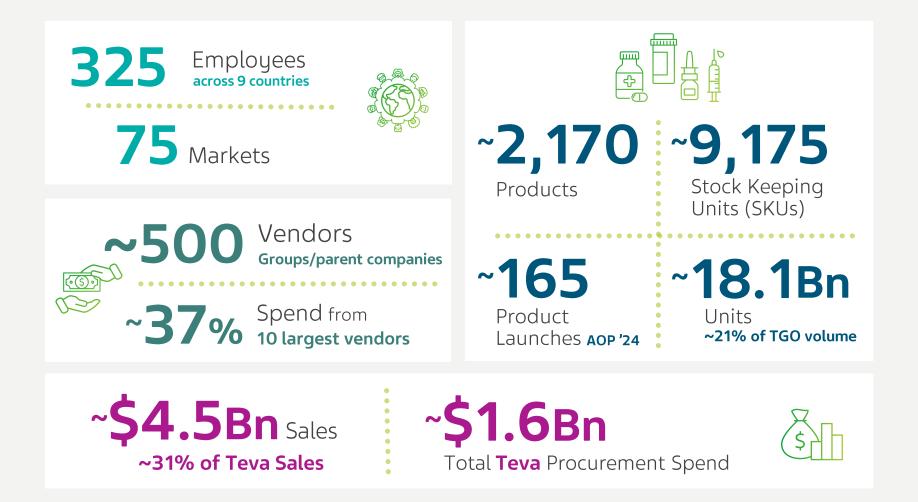
- The amount an individual can be exposed to daily for life that is unlikely to cause adverse health effects (EMA, 2014, PIC/s 2018).
- The goal is to protect patients and employees from possible undesirable health effects from an unintended exposure.



 Promote risk communication and recommend preventive actions, in collaboration with industrial hygienists and clinical/nonclinical safety teams.



External Manufacturing & Supply Operations (EMSO) in brief









Round 1: Career Paths



Round 2: Current Roles



Round 3: Advice



Career Advice

- Luck is when opportunity meets preparation
 - Constantly build skills
 - Look at job postings well before graduation
 - Fill in gaps
 - Enhance your presentation skills
 - www.toastmasters.org (international non-profit speaking & leadership org)
- Help others & build your network
 - "Bring people with positive energy into your inner circle. If those around you are enthusiastic, authentic, and generous, you will be, too"
 - from: https://hbr.org/2011/07/managing-yourself-a-smarter-way-to-network
 - Become a volunteer in a professional organization
 - Develop leadership skills & show interpersonal skills & teamworking ability
- Invest time in your LinkedIn profile & resume
 - Brainstorm with friends



My Advice



Be Curious, Ask Why



Growth Mindset



Always bring up solutions, not just questions



Preparing for Successful Career

☐ You don't have to nail it with your first step



- ☐ Everyone's path is different
- ☐ It's progressive
- ☐ Don't compare it's exhausting and unsatisfying
- ☐ Your qualifications/experiences don't restrict you
 - ☐ Be open
- ☐ Find a mentor (If you can! Don't stress if you can't)
 - ☐ Doesn't have to be a professional make sure there is trust/respect
- ☐ Look around for group forums in your interest area
 - ☐ E.g. subcutaneouscobsortium.org LinkedIn page





Always remember that you are N=1



Empower yourself to seek the mentorship you deserve.



Change is a redirection.

It's a chance to re-evaluate and came back stronger!



You can start before you feel ready.



Career Advice From Brian Hamilton

Your experience is valuable beyond the subject area you have studied
 Focus on developing your skills rather than on advancement
 Determine your path forward rather than waiting on others

from it and move on.

Don't be afraid to take a chance. If it does not work out, you will learn



Q&A





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