

School of Pharmacy

Support and Facilitate Excellence in Scholarship and Graduate Training



Blackwell Smith Building



Biotech I



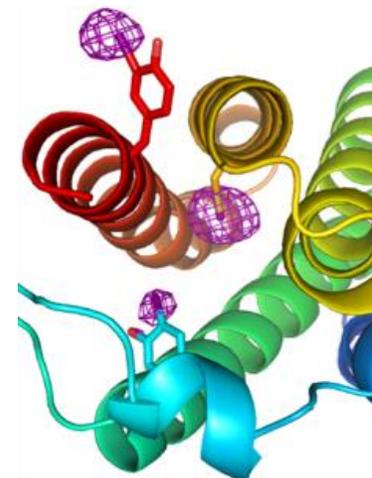
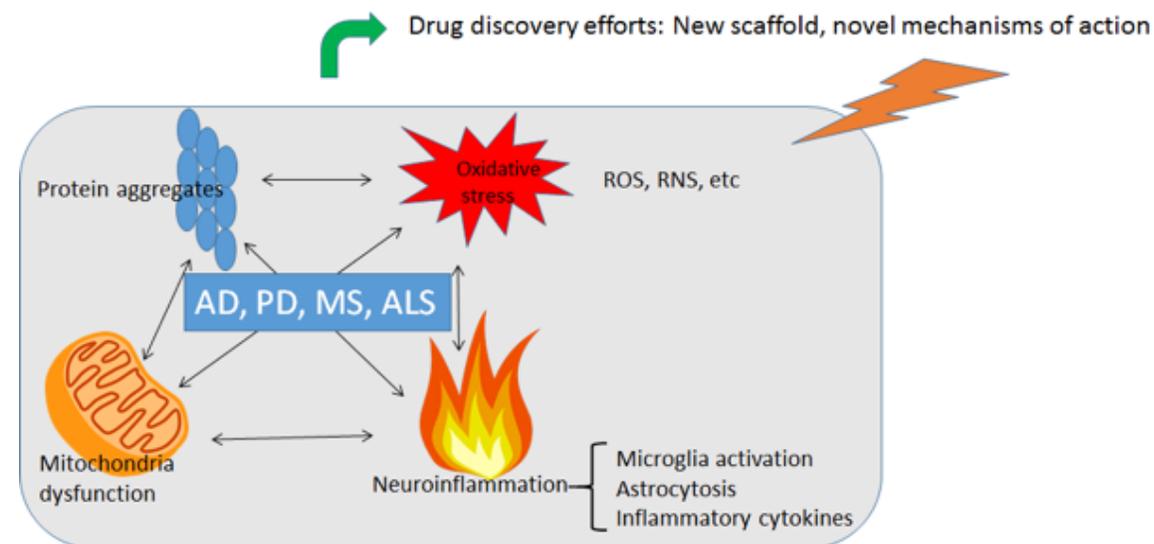
McGuire Hall

VCU School of Pharmacy: Overview

- Founded in 1898
- Graduate program established in 1950s
- International reputation for excellence in education and research
 - Ranked #17 Best Schools of Pharmacy (US News and World Report)
 - Ranked #24 NIH Funding (of 130 SOPs)
- Tremendous breadth of research: structural biology to population
- Three departments
 - ~65 total faculty
 - ~38 graduate faculty
- Trainees
 - ~15-20 postdoctoral fellows
 - 48 PhD
 - 9 MS

Department of Medicinal Chemistry (10 Faculty)

- Allosteric drug interactions
- Anti-cancer and anti-HIV drug development
- Anticoagulants and enzyme mechanism
- Behavioral effects of drugs
- Bioinformatics
- Centrally-active drugs
- Chemical biology
- Drug discovery
- Drugs of abuse
- Molecular modeling and drug design
- Natural product synthesis
- Next generation antibiotics
- QSAR technology development
- RNA-drug interactions
- Structural biology
- X-ray crystallography



Department of Pharmaceutics (16 Faculty)



Pharmacokinetics and pharmacodynamics



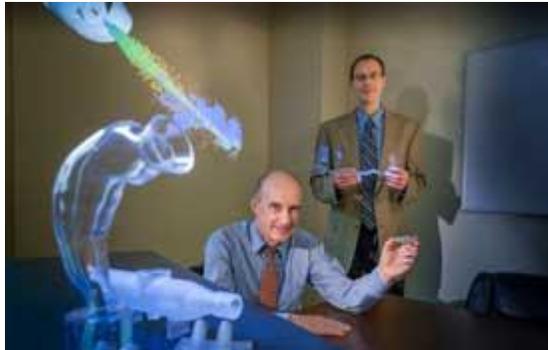
Drug Transporters



Proteomics



Biopharmaceutical analysis



Aerosol drug delivery



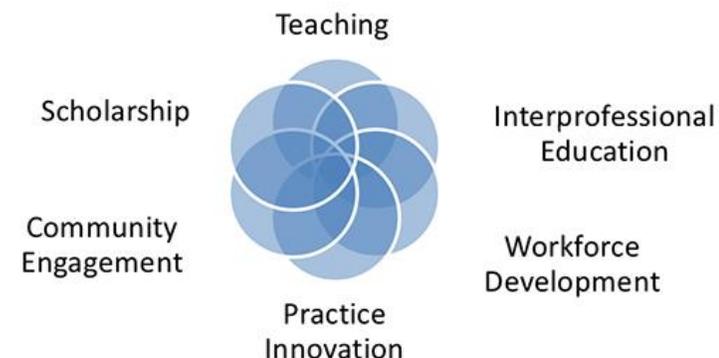
Ocular drug delivery



Nanomedicine

Department of Pharmacotherapy & Outcomes Science (~35 faculty)

- Health economics and outcomes research: cancer, cardiovascular disease, drug abuse
- Social and administrative constructs of pharmacy practice
- Pharmacoepidemiology of antimicrobial usage
- Cardiology (heart failure, inflammation, drug development)
- Thrombosis and haemostasis (hemophilia, coagulopathy, drug development)
- Women's health / endocrinology
- Personalized medicine (genomics, proteomics, metabolomics, lipidomics)
- Neurocritical care (TBI, stroke)
- Geriatric Pharmacotherapy
- HIV clinical pharmacology
- Clinical trials
- Scholarship of teaching and learning
- Pharmacy practice innovation



Institutes and Centers

Institute for Structural Biology, Drug
Discovery and Development
Director: Martin Safo



Center for Pharmacy
Practice Innovation
Director: David Dixon



Center for Biomarker Research
and Precision Medicine
Director: Edwin van den Oord



Center for Compounding Practice and Research
Director: Barbara Exum



PhD Student Employment (2012-17)

Graduates	Total	Post Doc	Academia	Government	Industry	Unknown or looking
#	79	20	16	10	32	1
%	100%	25.3%	20.3%	12.7%	40.5%	1.3%

SoP Extramural Funding (BRIMR)

Year	Ranking	Award
2018	24	5,473,663
2017	15	6,912,812
2016	17	5,924,585
2015	12	6,277,022
2014	14	5,632,200
2013	18	4,648,441

Grant and contract submissions

FY18

- 116

FY17

- 104

FY16

- 90

FY15

- 63

FY14

- 52



2018 Funding Stats

Department	Total Faculty	Faculty who applied	Funded faculty	Student funded
MedChem	14	11	7	1
DPOS	35	15	9	0
Pharmaceutics	16	9	8	2

Challenges

- Extramural Funding
- Scholarship
 - Faculty: 2.3 papers/year
 - PhD graduate: 62.5% have 1st author pubs; 16.2% no pubs
- Facilities and Space
 - Antiquated labs
 - Spread over three buildings
- High cost of graduate program vs. productivity
- Branding issue
- Alumni engagement
- Siloed
 - Departments
 - Schools

Opportunities

- Increase collaborations (basic, clinical, and population research; education; community engagement)
 - Interdepartmental
 - Cross VCU
 - Outside VCU
- Pharmaceutical Engineering PhD program (1st in the nation)
- Increase graduate student scholarship
- Increase percentage of funded grants
 - Mentoring junior and mid career faculty
 - Grant feedback (reviews, mock study sections etc.)
- Prioritizing action plan from 1st full graduate program review

Office of Research and Graduate Studies

Support and Facilitate Excellence in Scholarship and Graduate Training



Aspiration: Achieve Quality of Top 10 Schools of Pharmacy