



HERE IS WHERE
GREAT
HEALTH CARE
LEADERS
ARE CREATED



University at Buffalo

School of Pharmacy and
Pharmaceutical Sciences

THE UB SCHOOL OF PHARMACY AND PHARMACEUTICAL SCIENCES IS WHERE WORLD- RENOWNED RESEARCHERS AND NATIONALLY-RECOGNIZED EDUCATORS AND CLINICIANS:

create innovative learning communities

awaken intellectual curiosity

challenge scientific boundaries



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Since 1887, we have been a leader in the education of pharmacy students and pharmaceutical sciences researchers. We continue our progressive journey into the 21st century with innovative research led by outstanding faculty along with the initiation of progressive educational paths, preparing our students to be the clinical and research leaders of the future.

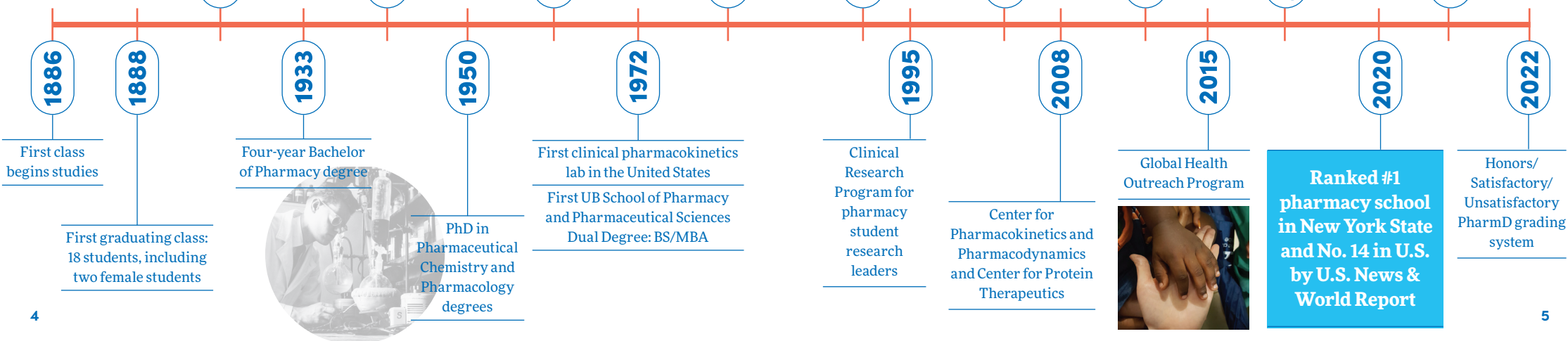
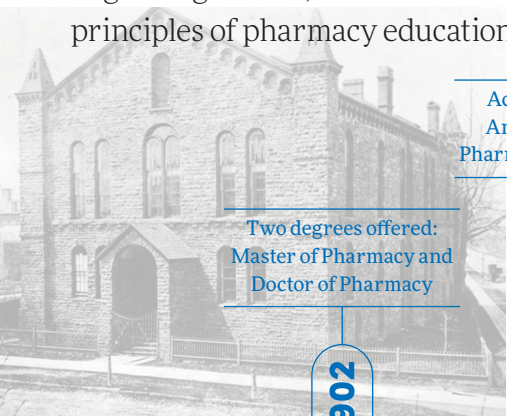
I invite you to read more about our journey and how we are creating solutions to address society's most pressing health care needs.

A handwritten signature in black ink that reads "Gary M. Pollack". The signature is written in a cursive style.

Gary M. Pollack, PhD
Dean and Professor

A Legacy of Learning

Beginning in 1886, here is where the foundational principles of pharmacy education began.



REIMAGINING EDUCATION

Our transformational approach to education has allowed us to implement a renewed educational blueprint for student success, guided by recognized leaders in pharmacy education and clinical practice.

A New Path for Academic Success: H/S/U Grading System

We are one of a select group of pharmacy schools to implement a non-letter grade approach to student learning, improving student success and PharmD program quality.

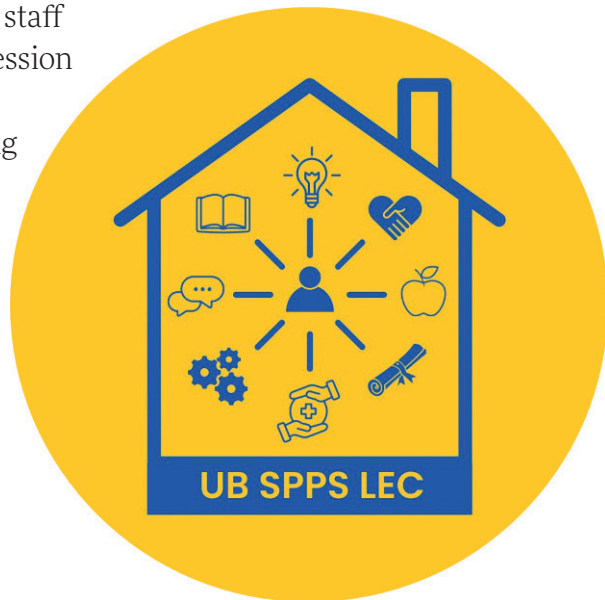


H/S/U: Student Benefits

- Has improved faculty-student communication: concepts – not grades
- Performance evaluations: mastery of concepts – not grades







A New Path for Academic Success: Learning and Engagement Communities

SPPS students live and learn in innovative Learning and Engagement Communities; where students, faculty and staff partner to explore the profession of pharmacy and develop shared connections fostering our students' professional and personal journeys.



Student Wellness

Our holistic approach to developing student focused programs promotes inclusion, wellness and a stronger sense of community.

 <p>Dedicated reflection room</p>	 <p>Financial literacy workshops</p>	 <p>Midday breaks</p>
 <p>Robust student organization and club network</p>	 <p>Student organizations dedicated to fun extra-curriculars</p>	 <p>Workshops to enhance and build interpersonal and resiliency skills</p>

TRANSFORMATIVE RESEARCH AND SCHOLARSHIP

Our transformative research and scholarship has helped develop the founding principles of drug discovery and paved the way for our recognized leadership in systems pharmacology, translational research and evaluative clinical sciences.



Million Dollar Leaders

Our leadership success is driven by our pre-eminent faculty researchers and their pioneering investigation in drug delivery, drug discovery and drug development.

\$1M+ Grants
19 grants
by 13 faculty

OVER 50% of tenure track
faculty have \$1 million+ grants
(13 of 24 tenure track faculty)

\$5 Million+ Leaders

\$18 Million
Gene Morse, PharmD,
SUNY Distinguished
Professor: Drug
Development, ID/HIV



\$15.6 Million
Joseph Balthasar, PhD,
David and Jane Chu
Endowed Chair in Drug
Discovery and Development:
Antibody drug conjugates



\$8 Million
Brian Tsuji, PharmD,
Associate Dean, Clinical
and Translational Sciences:
Antimicrobial resistance



High Impact Funding

High impact funding drives our research core.

Top Funded Projects

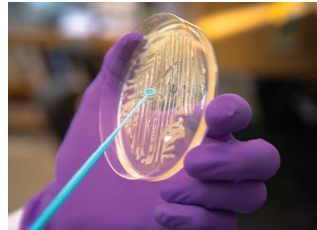
\$14 Million
NIAID, Clinical
Pharmacology Quality
Assurance ID/HIV
Gene Morse, PharmD



\$9.6 Million
Multiple sponsors, Center
for Protein Therapeutics
Joseph Balthasar, PhD

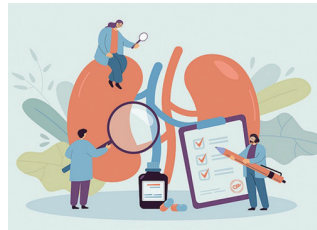
\$4 Million
NIA, Aging, Polypharmacy,
and Neurotoxicity in Adults
Living with HIV
Qing Ma, PharmD, PhD

\$3.9 Million
NIAID, Novel Strategies for
Antibiotic Combinations to
Combat Gram-negative
Superbugs
Brian Tsuji, PharmD



\$3.8 Million
NIAID, Novel Combination
Therapies to Combat
Hypermutable
Carbapenem-Resistant *P. aeruginosa*
Brian Tsuji, PharmD

\$3.5 Million
NIA, Age and Race
Influences on
Immunosuppression
After Renal Transplant
Kathleen Tornatore,
PharmD

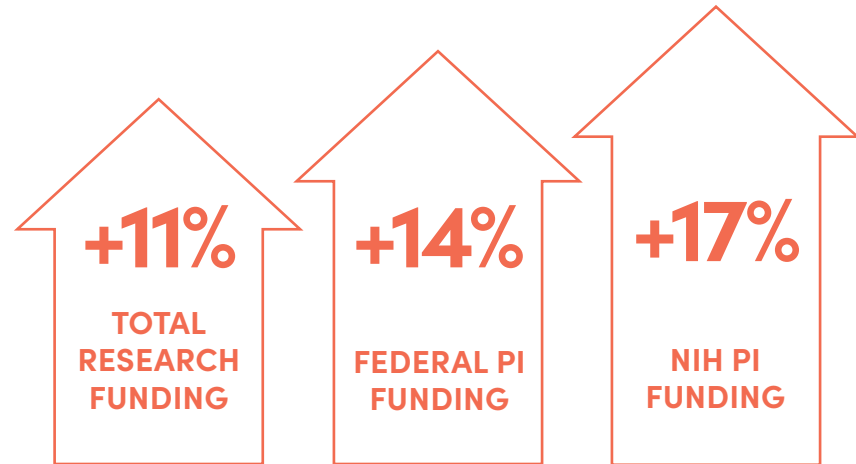


Research on the Rise

Effective research strategies and strategic approach to innovation move us forward.

AACP 2022 Institutional Research Rankings

(AACP 2022 Institutional Research Rankings: increases based on 2021-22 research data comparisons)



Tenure Track Faculty **67%** have federal funding

Emerging Science Support: Statewide and Campus Driven

Our research enterprise is supported and valued by state and campus partners.

NEW YORK STATE FACULTY INVESTMENT

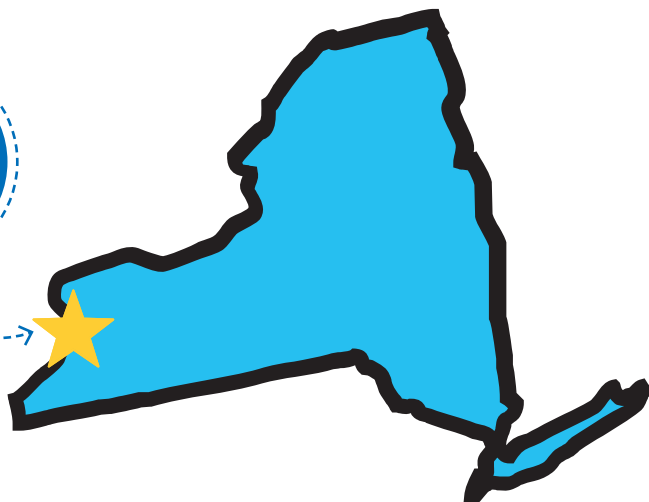
\$1.4 million
faculty hiring

UB BUILDING INTERDISCIPLINARY EXCELLENCE

\$1.2 million
start up support

UB STRATEGIC INVESTMENT:

\$865,000
develop postgraduate pipelines



Trailblazing Scientific Scholarship

Our faculty lead scientific discovery to improve health and eradicate disease.

Defining the Origins of New Autoimmune Treatments: FcRn Inhibitors and Vyvgart:

increase antibody elimination and patent approval of Vyvgart; first FcRn inhibitor approved by the FDA for medical use.

Joseph Balthasar, PhD

Identification of Key Metabolic Regulators in Cancer Cell Resistance to Gemcitabine:

establishment of rational basis for the design of effective therapeutic approaches to overcome Gem resistance in PDAC patients.

Robert Straubinger, PhD and Jun Qu, PhD

Kawasaki Disease:

First test in North America to predict IVIG therapeutic resistance.

Co-author, Nicholas Fusco, PharmD

Novel Community and Educational Scholarship

Our faculty investigate where education and community intersect to improve wellness.

Effectiveness of Social Determinants of Health Pharmacy Program Implemented in Community Pharmacies

Christopher Daly, PharmD

Preparing Health Professions Students to Address Medical Misinformation and Vaccine Hesitancy – Through Competency Based Interprofessional Instructional Design Strategies

Nicholas Fusco, PharmD

Opioid Prescriber Training Program

Edward Bednarczyk, PharmD

UB Top 10: American Journal of Pharmaceutical Education

Recognition by our peers for preeminent scholarly leadership in pharmacy education and student learning.*

#5

SCHOOL

UB Pharmacy and
Pharmaceutical Sciences

#6

AUTHOR

William Prescott, PharmD,
clinical professor and chair,
pharmacy practice

* 2022 AJPE data

ORGANIZING FOR SUCCESS

We have reimaged our organizational structure and operations to enhance our student experience, research productivity and scholarly collaborations.



Transforming Departments into Divisions

Creation of strategic divisions to align strengths and support mission critical objectives.

Department of Pharmacy Practice Divisions



Clinical and
Translational
Therapeutics



Education and
Teaching
Innovation



Outcomes
and Practice
Advancement

Department of Pharmaceutical Sciences Divisions



Drug and
Biotherapeutic
Discovery



Drug Delivery and
Pharmaceutical
Bioengineering



Pharmacokinetics/
Pharmacodynamics
and Systems
Pharmacology

The Office of Student Success and Engagement

Innovative new student services office, providing a supportive environment to enrich and empower students, ensure personal growth, professional and career preparation, and academic success.

New personnel and structure to support student success

Associate Dean for Student Success and Engagement

Assistant Dean for Student Success and Engagement

Director of Registrar and Enrollment Services

Director of Undergraduate Advisement and Recruitment

Associate Director for Student Success and Engagement

Student Engagement Coordinator

Recruitment and Advisement Coordinator

Student Success Coach

Drug Discovery, Development and Evaluation Research Hub (DDDE)

A new way of approaching transdisciplinary and interdisciplinary research

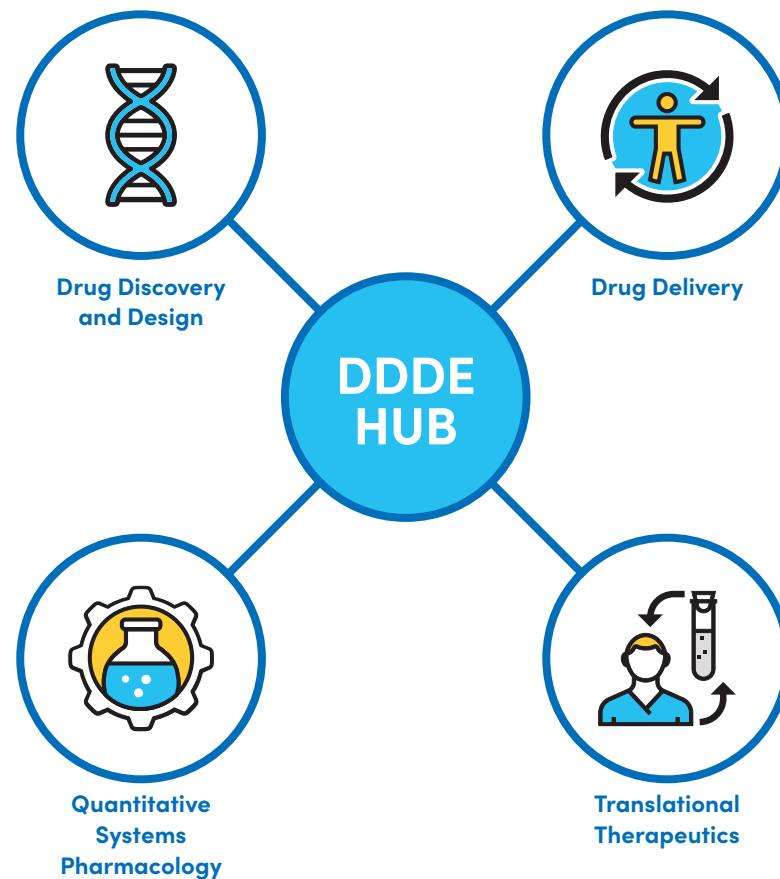
The new DDDE Research Hub provides cross-campus interdisciplinary leadership and creative approaches to support core innovations in drug discovery and development along with the development of a translational therapeutic core, supporting *clinical pharmacology, policy development and evaluative clinical sciences*.

DDDE Core Areas

- Drug Discovery and Design
- Drug Delivery
- Quantitative Systems Pharmacology
- Translational Therapeutics

DDDE Goals

- **Federal Funding:**
Enhance and expand competitiveness
- **Pharma and Biotechnology:**
Develop new research and training partnerships
- **Interdisciplinary Training Grants:**
Create new platforms
- **Doctoral Degrees:**
Increase number granted
- **Reputational Advantage:**
Increase awareness of exceptional UB research



INTELLECTUAL INNOVATION

Preeminent past and present faculty are the reason for our recognized leadership and success. We are proud of their legacy and their impact on the future of the profession.

Achievement

Awards and Recognitions

INTERNATIONAL AND NATIONAL

1 National Academy of Sciences Member
Gerhard Levy: first PharmD inducted

2 International Pharmaceutical Federation
1 Høst-Madsen Medal
1 Lifetime Achievement Award

1 Fulbright Scholar Program

4 American Society for Clinical Pharmacology and Therapeutics
1 Malle Jurima-Romet Mid-Career Leadership Award
1 William B. Abrams Lecture
2 Oscar B. Hunter Career Awards in Therapeutics

3 International Society of Pharmacometrics
1 Innovation Award
1 Leadership Award
1 Lewis B. Sheiner Lecturer Award

Awards and Recognitions, continued

INTERNATIONAL AND NATIONAL

1 National Science Foundation CAREER Award

3 American College of Clinical Pharmacy
1 Therapeutic Frontiers Lecture
2 Russell R. Miller Awards

1 International Society for the Study of Xenobiotics New Investigator Award

3 American Association of Pharmaceutical Scientists
3 Distinguished Service Awards

9 American Association of Colleges of Pharmacy
4 New Investigator Awards
5 Volwiler Research Achievement Awards

1 American College of Apothecaries Research and Education Foundation Albert E. Rosica, Jr. Memorial Award

1 American Society for Pharmacology and Experimental Therapeutics Early Career Award

1 Argentine Society of Genetics Medal of Honor

STATE UNIVERSITY OF NEW YORK (SUNY)

4 SUNY Distinguished Professors

4 SUNY Chancellor's Awards for Excellence in Teaching

6 SUNY Chancellor's Awards for Excellence in Scholarship and Creative Activity

2 SUNY Chancellor's Awards for Excellence in Faculty Service

4 SUNY Chancellor's Awards for Excellence in Professional Service

UNIVERSITY AT BUFFALO (UB)

4 UB Distinguished Professors

6 UB Teaching Innovation Awards

6 UB Exceptional Scholar Awards for Young Investigators

7 UB Exceptional Scholar Awards for Sustained Achievement

Distinctiveness

Fellows

9 American Association for the Advancement of Science Fellows	14 American Association of Pharmaceutical Scientists Fellows	1 American Society of Consultant Pharmacists Fellow
2 International Pharmaceutical Federation Fellows	1 American Society of Transplantation Fellow	6 American Pharmacists Association APRS Fellows
3 International Society of Pharmacometrics Fellows	1 Infectious Diseases Society of America Fellow	1 American Pharmacists Association APPM Fellow
10 American College of Clinical Pharmacy Fellows	1 Society of Critical Care Medicine Fellow	4 American Association of Colleges of Pharmacy, Academic Leadership Fellows Program
1 American College of Neuropsychopharmacology Fellow		

**OUR PROGRESSIVE
JOURNEY CONTINUES.**

**FOLLOW US AT
PHARMACY.BUFFALO.EDU**



pharmacy.buffalo.edu