

UNIVERSITY OF THE  
**PACIFIC**

Thomas J. Long  
School of Pharmacy



# Fellowship in Industry Program 2024





## About University of the Pacific

University of the Pacific is a nationally ranked university with a long tradition of dedicated teaching, small class sizes, practical experience and vibrant residential life. The breathtaking main campus in Stockton, California is home to eight schools and colleges, with more than 80 majors and programs of study. The Thomas J. Long School of Pharmacy opened in 1955 and has a long-standing record for producing high-quality pharmacists with the option for dual degree programs (PharmD/PhD or PharmD/MS) and post-doctoral academic fellowships. Over the last nine years, average annual faculty research grants in the School totaled more than one million dollars with extensive participation in NIH and NSF grants and more than 95 percent of faculty publishing. The School touts a unique decentralized Advanced Pharmacy Practice Experience (APPE) model with seventeen regions having faculty members bolstering teaching, scholarship and service.

**Learn more at [pacific.edu/pharmacy](https://pacific.edu/pharmacy)**

## Mission

*The mission of the Thomas J. Long School of Pharmacy is to prepare students for lifelong success in health careers by providing an excellent, student-centered learning environment. We aspire to develop leadership skills in our students and a strong commitment to their professions, to interprofessional collaboration, and to society. These efforts are assisted by linkages across the University of the Pacific professional and liberal arts programs. We support outstanding professional and graduate teaching, research and other scholarly activity, and services as a means of achieving our mission.*



## Welcome Message from the Associate Dean of Professional Programs

Dear Prospective Fellow,

We are so pleased that you are considering the University of the Pacific's Fellowship in Industry Program (FIP) in partnership with Day One Biopharmaceuticals. The goal of this program is to increase industry fellowship opportunities offered through partnerships between biopharmaceutical organizations and universities on the West Coast.

At University of the Pacific, the first charter university in California, we value individualized training and focus on leadership development, which are exemplified by our partnership with Day One. For more than 60 years, the Thomas J. Long School of Pharmacy has been training health care professionals who are problem-solvers, innovators and leaders. Our faculty dives deeper, using research to challenge the status quo of health care and education.

As an FIP fellow, you will be fully immersed in a clinical science role at Day One supporting innovative drug development. In addition, you will have opportunities to work alongside the faculty and preceptors at the University, Veteran Affairs Palo Alto Health Care System and Travis Air Force Base where you can engage in research collaboration, grant and manuscript development, teaching, student and resident mentoring and other professional development activities.

I highly encourage you to contact our FIP Director, Dr. Sachin Shah, and the exceptional team of program mentors so you can appreciate how this program can further your future success.

Best Regards,



**Allen Shek, PharmD**  
*Professor of Pharmacy Practice*  
*Associate Dean of Professional Programs*  
*Thomas J. Long School of Pharmacy*  
*University of the Pacific*





# Cancer Therapies for People of All Ages

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## Our Approach

- Develop medicines for molecularly-altered cancers
- Establish first-in-class position through rapid registration pathways
- Expand to adolescent and adult populations in parallel and pursue those opportunities with the same commitment we do for children





# Our Pipeline

Product Candidate	Therapeutic Area	Preclinical	Phase 1	Phase 2	Phase 3/ Registrational	Approved	Recent & Anticipated Milestones
<b>Tovorafenib<sup>3</sup></b> Type II RAF Inhibitor  <b>OJEMDA brand name in U.S.<sup>1</sup></b>  Ex-U.S. Rights: 	BRAF-altered relapsed pLGG						<b>FDA approval</b> April 2024  <b>Ex-U.S. license agreement</b> July 2024
	Frontline RAF-altered pLGG						<b>First patient dosed</b> March 2023
<b>DAY301</b> PTK7 Targeted ADC	Adult and pediatric solid tumors						<b>U.S. IND cleared</b> April 2024  <b>First patient dosed expected</b> 4Q 2024 / 1Q 2025
<b>VRK1 Program</b> VRK1 Inhibitor	Adult and pediatric cancers						<b>In-licensed</b> August 2023

<sup>1</sup> OJEMDA has received accelerated approval by the U.S. Food and Drug Administration. <sup>2</sup> FIREFLY-1 is an open-label, pivotal Phase 2 trial. <sup>3</sup> Ex-U.S. license agreement with Ipsen to commercialize OJEMDA (tovorafenib) outside the U.S.

DAY301 is a license agreement with MabCare Therapeutics for exclusive worldwide rights, excluding Greater China, for MTX-13/CB-002, a novel ADC targeting PTK7. pLGG, pediatric low-grade glioma. VRK1 Program is a research collaboration and license agreement with Sprint Bioscience AB for exclusive worldwide rights to a research-stage program targeting VRK1. The safety and efficacy of investigational agents and/or investigational uses of approved products have not been established.

# Mindful Innovation

Inspired by the urgent needs of children with cancer, Day One creatively and intentionally develops new medicines for people of all ages living with life-threatening diseases

## Message from Day One's Chief Medical Officer

Dear Prospective Fellow,

Thank you for your interest in exploring Day One's Clinical Science fellowship in partnership with the University of the Pacific, Thomas J. Long School of Pharmacy. Our post-doctoral, PharmD curriculum will offer experiences in oncology clinical development that support Day One's patient-focused, innovative drug development programs.

We are offering passionate, motivated PharmD graduates the opportunity to gain the hands-on industry experience and mentorship required for successful careers in drug development. With PharmDs currently contributing across all levels and in different functional areas of Day One, you will find an ideal, supportive, educational environment. Upon completion of the two-year program, you will have skills and training required for a successful and exciting career as a clinical researcher.

On behalf of Day One, we welcome you to apply to this program and help us advance our mission of addressing the urgent needs of children and adults living with cancer.

Best Regards,



**Elly Barry**  
*Chief Medical Officer*  
*Day One Biopharmaceuticals*







## Day One Fellowship | Clinical Science (Oncology)

The Clinical Science team at Day One supports the mission of delivering new therapies to those with the greatest unmet needs by execution of clinical development plans with the highest level of integrity and urgency. The Fellow will contribute to the scientific aspects of Day One's oncology clinical programs, with opportunities spanning Phases I - III studies. Through hands-on experience, the Fellow will develop a core understanding of protocol design, scientific oversight of trials, and interpretation and reporting of study results. In addition, the Fellow will have the opportunity to build scientific expertise in the fields of targeted therapy, central nervous system tumors, and adult and pediatric drug development.

The Fellow will also have opportunities to collaborate with other functional groups such as Translational Sciences, Clinical Operations, and Regulatory Science on critical projects to support Day One's development plans.

## Activities

- Partner with Clinical Scientists and Medical Monitors to ensure scientific oversight for Day One's clinical studies
- Author key scientific documentation including protocols, informed consent forms, medical data review plans, investigator's brochures, and clinical study reports
- Collaborate with cross functional experts on key safety and regulatory submissions
- Enhance scientific communication skills through the development of presentations to internal and external audiences
- Develop a comprehensive understanding of the fundamentals of clinical research and Good Clinical Practice (GCP)

## Program Mentors



**Daniel Da Costa, PharmD**  
*Medical Director*



**Peter Manley, MD**  
*Vice President, Clinical Development*



**Penelope Nwaukwa, PharmD**  
*Clinical Scientist*

## Day One Fellowship | Medical Affairs (Oncology)

The medical affairs fellowship offered by Day One is an exciting opportunity to be a part of a fast-paced, growing, mission-driven commercial-stage biotech company with a newly approved first-in-class medicine for the largest subset of pediatric brain tumors, pediatric low-grade gliomas. The Fellow will contribute to strategic planning, ongoing and new medical affairs projects, and commercial launches of existing and new products into the marketplace. Through hands-on experience, the Fellow will develop a core understanding of physician engagement strategy, life cycle management, and evidence generation. In addition, the Fellow will have the opportunity to build scientific expertise in the fields of targeted therapies, central nervous system tumors, and adult and pediatric drug development. The Fellow will also have opportunities to collaborate with other functional groups such as clinical development, marketing, translational sciences, and clinical operations on critical projects to support Day One's medical affairs plans.

### Activities

- Understand the various functions under medical affairs and support ongoing evidence generation activities
- Support the Medical Affairs team on projects regarding process improvement and implementation of innovative technology
- Build and maintain relationships with thought leaders to gather insights and inform medical evidence generation plans
- Gain subject matter expertise on the products in the portfolio and the diseases where Day One operates.

### Program Mentors



**Sandya Govinda Raju, MBBS, PhD**  
*Sr. Medical Director, Medical Affairs*



**Mark Kieran, MD, PhD**  
*Vice President, Clinical Development*



## Brief Overview

### Fellowship in Industry Program

The University of the Pacific's Fellowship in Industry Program (FIP) was founded in 2017 with the goal of providing exceptional biopharmaceutical industry training for PharmD graduates. We strive to deepen domain specific technical skills while sharpening soft skills for all fellows. The fellows will spend 90 percent of their time at Day One. The balance of time will be spent on professional development activities at the University.

University of the Pacific's FIP is unique for several reasons. The program:

1. Integrates pharmaceutical industry training with a blend of academia or hospital practice experiences.
2. Enhances research capabilities via engagement in the Innovative Clinical and Outcomes Research (iCOR) program.
3. Embraces the innovative culture of the San Francisco Bay Area, home to many health care startup companies.

Learn more at [pacific.edu/pharmacy/icor](https://pacific.edu/pharmacy/icor)

## Program Mentors



**Sachin A. Shah, PharmD, FACC, FAHA**  
*Professor of Pharmacy Practice  
Regional Coordinator – Travis AFB  
Director, Fellowship in Industry Program*



**Jeremy Lim, PharmD**  
*Associate Director, Fellowship in Industry Program  
Thomas J. Long School of Pharmacy*

## Activities at the Thomas J. Long School of Pharmacy

The fellow will have clinical faculty status at University of the Pacific, Thomas J. Long School of Pharmacy in Stockton, California.

They may be engaged in:

- Conducting research in collaboration with faculty
- Attending professional development meetings
- Developing grant and manuscript writing skills
- Advising Pacific's Industry Pharmacists Organization (IPhO) student chapter
- Mentoring rotational students in professional development and industry opportunities
- Participating in teaching activities (e.g. industry elective, research elective)

## Program Mentors



**Allen Shek, PharmD**  
*Professor of Pharmacy Practice*  
*Associate Dean of Professional Programs*



**Kate M. O'Dell, PharmD, BCPS, FCSHP**  
*Professor of Pharmacy Practice*



**Nancy N. Nguyen, PharmD,  
BCPS, AAHVP, FCSHP**  
*Clinical Professor of Pharmacy Practice*  
*Regional Coordinator – Palo Alto*



**Sachin A. Shah, PharmD, FACC, FAHA**  
*Professor of Pharmacy Practice*  
*Regional Coordinator – Travis AFB*  
*Director, Fellowship in Industry Program*





## Select Publications from Former FIP fellows:

### Posters and Publications

- **Oh E**, Owen R, Poon V, Wong K, Yoshida K. PKPD Modeling to Characterize Placebo and Treatment Effect of Omalizumab for Chronic Spontaneous Urticaria (CSU). Abstract at American Conference on Pharmacometrics (ACOP) Annual Meeting 2022; Aurora, CO, 2022.
- Dayal P, **Dimond C**, Yang X, Kent M, Rizzo S, Mohan D. Defining the Frequent Exacerbator Phenotype During a Pandemic in COPD. Abstract at American College of Chest Physicians (CHEST) Annual Meeting 2021; Orlando, FL 2021.
- **Dimond C**, Shah S, Dovan K, Tran B, Hsu K, Pham K, O'Dell K. Effects of Nelumbo nucifera extract on anxiety symptoms in individuals with moderate-to-severe anxiety. (Under Peer-review)
- **Liu X, Kawakatsu S**, Tran B, Tran B, Manzeno L, Shih E, Shek A, Lim J, Shah SA. Differences in Glucose Readings Between Right Arm and Left Arm Using a Continuous Glucose Monitor. Poster at American Heart Association-Scientific Sessions, 2020, Virtual Conference. (Abstract #13259). Published as a paper in Journal of Diabetes Science and Technology. <https://pubmed.ncbi.nlm.nih.gov/33955249/>
- **Kawakatsu S**, Zhu R, Zhang W, Tang MT, Lu T, Quartino A, Kågedal M. Longitudinal Placebo Response Modeling in Patients with Ulcerative Colitis. Poster at American Conference on Pharmacometrics; Aurora, CO, 2020.
- **Kawakatsu S**, Bruno R, Kågedal M, Li C, Girish S, Joshi A, Wu B. Confounding Factors in Exposure-Response Analyses and Mitigation Strategies for Monoclonal Antibodies in Oncology. <https://pubmed.ncbi.nlm.nih.gov/33217012/>
- Sathyamoorthy M, Verduzco-Gutierrez M, **Varanasi S**, et al. Enhanced external counterpulsation for management of symptoms associated with long COVID. American Heart Journal Plus: Cardiology Research and Practice. January 2022.
- Kunder R, Yeh F, Chinn L, Dash A, Lewin-Koh N, **Kim N**, Fredrickson J, Yoshida K, Chen S, Wilson M, and Wong C. Multiple Doses of an Anti-FGFR1/KLB Bispecific Antibody (BFKB8488A) are Associated with a Decrease in Hepatic Fat in Patients with NAFLD. Poster at American Association for the Study of Liver Diseases (AASLD) The Liver Meeting 2019; Boston, MA 2019.
- **Kim N**, Pham K, Shek A, Lim J, **Liu X**, Shah SA. Differences in Glucose Level Between Right Arm and Left Arm Using Continuous Glucose Monitors. Published in Digital Health. <https://pubmed.ncbi.nlm.nih.gov/33224517/>

### On-Going Clinical Research

- Time In Range Difference between Arms using Continuous Glucose Monitors in Patients with Diabetes. PIs: **Allen Lat**, PharmD, Sarika Mujumdar, PharmD
- Effects of a natural caffeinated energy drink on blood glucose parameters. PI: **Elise Oh**, PharmD.

## Fellowship Eligibility Requirements

A candidate must:

- ☐ Be a permanent resident or citizen of the United States
- ☐ Have earned a PharmD from an ACPE accredited college of pharmacy before the start of the fellowship term

## Application Process

**Candidates must submit via email ([pharmfip@pacific.edu](mailto:pharmfip@pacific.edu)) all the following application materials by the deadline listed on the University's website:**

- ☐ Letter of intent
- ☐ Updated curriculum vitae (CV)
- ☐ Three (3) letters of recommendation emailed directly from letter writer to FIP director
- ☐ One professional writing sample that demonstrates medical writing ability
- ☐ Unofficial pharmacy school transcript emailed to FIP director
- ☐ All application materials should be addressed to:  
Sachin A. Shah, PharmD, FACC, FAHA  
Director, Fellowship in Industry Program  
Professor of Pharmacy Practice  
Thomas J. Long School of Pharmacy

**See application deadline at [pacific.edu/pharmacy/fellowship/day-one](https://pacific.edu/pharmacy/fellowship/day-one)**

