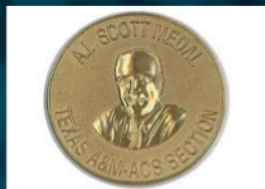




**CHEMISTRY**  
TEXAS A&M UNIVERSITY

# A.I. Scott Medal

FOR EXCELLENCE IN BIOLOGICAL  
CHEMISTRY RESEARCH



## 2018 Award Symposium

Featuring Talks  
by

**2018 Awardee - Tadhg P. Begley (TAMU)**  
**Peter Dervan (Caltech)**  
**Hagan Bayley (University of Oxford)**

October 19 & 20, 2018  
ILSB Auditorium

Texas A&M University, College Station, TX

## Program

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FRIDAY, OCTOBER 19

### A I Scott Medal Symposium (1:00 – 5:30 PM)

Interdisciplinary Life Sciences Building  
Texas A&M University

- 1:00 Poster Session  
1:50 Opening Remarks  
2:00 *Molecular recognition of DNA: from discovery to oncology* .....Peter Dervan, Caltech  
3:00 *Protein pores as nanoreactors for single-molecule covalent chemistry* .....Hagan Bayley, U of Oxford  
4:00 Coffee Break and Poster Session  
4:30 *Thiamin pyrophosphate: a simple vitamin with a complex biosynthesis* ....Tadhg P. Begley, TAMU

### Banquet and Medal Presentation (6:30 – 8:45 PM)

Christopher's World Grille  
5001 Boonville Rd, Bryan, TX

- 6:45 Reception  
7:15 Dinner  
8:30 Presentation of the A I Scott Medal

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SATURDAY, OCTOBER 20

### Biological Chemistry Research Symposium (9:00 AM – 5:00 PM)

*Poster Viewing Sessions:* 9:00 – 9:30; 10:30 – 11:00 AM  
12:20 – 1:30; 2:30 – 3:00 PM

#### *Schedule of Talks:*

- |   |                                   |
|---|-----------------------------------|
| 9:30 – 10:30 Prof. Junjie Zhang, TAMU     | 1:50 – 2:10 Dr. Yu Yang, UTSA     |
| 11:00 – 11:20 Lauren Washburn, TAMU       | 2:10 – 2:20 Sumedh Joshi, TAMU    |
| 11:20 – 11:40 Chase Pectol, TAMU          | 3:00 – 3:20 Michael Poltash, TAMU |
| 11:40 – 12:00 Richiro Ushimaru, UT Austin | 3:20 – 3:40 Charles Deckard, TAMU |
| 12:00 – 12:20 Erol Vatansver, TAMU        | 3:40 – 4:10 John Mosior, TAMU     |
| 1:30 – 1:50 Trang Nguyen, TAMU            | 4:10 – 4:45 Sanjoy Adak, TAMU     |

# Biological Chemistry Research Symposium

Saturday, October 20, 2018

*Interdisciplinary Life Science Building (ILSB) Auditorium  
Texas A&M University*

- 9:00 am**      **Poster Session** (*Coffee and pastries available*)
- 9:30 am**      ***Exploiting the Backdoor of Piliated Bacteria for Efficient RNA Delivery by ssRNA Phages***  
Prof. Junjie Zhang, Texas A&M University
- 10:30 am**      **Coffee Break and Poster Session**
- 11:00 am**      ***Azinomycin: A Hybrid Nonribosomal Peptide and Polyketide Natural Product***  
Lauren Washburn, Texas A&M University (*C. Watanabe Laboratory*)
- 11:20 am**      ***Modulating Coordination Environment and Oxidation State of Dinitrosyl Iron Complexes to Optimize the Release of Nitric Oxide to Smooth Muscle Cells***  
Chase Pectol, Texas A&M University (*M. Darenbourg Laboratory*)
- 11:40 am**      ***Side Chain Assembly in the Biosynthesis of Thioheptose Core of Albomycins***  
Richiro Ushimaru, University of Texas at Austin (*H-W. Liu Laboratory*)
- 12:00 pm**      ***A Click Chemistry Approach for the Optimal Synthesis of Antibody-Drug Conjugates***  
Erol Vatansver, Texas A&M University (*W. Liu Laboratory*)
- 12:20 pm**      **Lunch and Poster Session** (*Lunch provided to all attendees*)
- 1:30 pm**      ***Low-Molecular Mass Transition Metal Complexes in Yeast***  
Trang Nguyen, Texas A&M University (*P. Lindahl Laboratory*)
- 1:50 pm**      ***Protein Quaternary Structure as a Means to Regulate Enzyme Activity in the Kynurenine Pathway***  
Dr. Yu Yang, UT San Antonio (*A. Liu Laboratory*)
- 2:10 pm**      ***Mechanistic Studies on MqnE : A Unique Radical SAM Enzyme in Vitamin K Biosynthesis***  
Sumedh Joshi, Texas A&M University (*T. Begley Laboratory*)
- 2:30 pm**      **Coffee Break and Poster Session**
- 3:00 pm**      ***An Ion Mobility-Orbitrap Mass Spectrometer: A Next Step in Understanding Protein-Ligand Interactions***  
Michael Poltash, Texas A&M University (*D. Russell Laboratory*)
- 3:20 pm**      ***Polycomb Repressive Complex 2 Binds RNA Irrespective of Stereochemistry***  
Charles Deckard, Texas A&M University (*J. Sczepanski Laboratory*)
- 3:40 pm**      ***Discovery of Novel M. tuberculosis Inhibitors Targeting a Phosphopantetheinyl Transferase***  
John Mosior, Texas A&M University (*J. Sacchetti Laboratory*)
- 4:10 pm**      ***A New Flavoenzyme-Catalyzed Baeyer-Villiger Type Rearrangement in the Bacterial Folate Catabolic Pathway***  
Sanjoy Adak, Texas A&M University (*T. Begley Laboratory*)  
Chemistry of Life Processes Awardee
- 4:45 pm**      **Concluding Remarks**  
Prof. Tadhg Begley