

JINDŘICH HENRY KOPEČEK

UNIVERSITY OF UTAH

DEPARTMENT OF MOLECULAR PHARMACEUTICS  
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## EDUCATION

M.S. Macromolecular Chemistry, Institute of Chemical Technology, Prague, Czechoslovakia, 1961

Ph.D. Macromolecular Chemistry, Institute of Macromolecular Chemistry, Czechoslovak Academy of Sciences, Prague, Czechoslovakia, 1965

Postdoctoral Fellow, National Research Council of Canada, Division of Applied Chemistry, Ottawa, Ontario, 1967-1968

D.Sc. Chemistry, Czechoslovak Academy of Sciences, Prague, Czechoslovakia, 1990

## APPOINTMENTS

Distinguished Professor of Biomedical Engineering, Distinguished Professor of Molecular Pharmaceutics, University of Utah, 2002 to present

Chairman, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 1999 to 2004

Professor of Bioengineering, Professor of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 1989 to 2002

Adjunct Professor of Materials Science and Engineering, University of Utah, 1987 to 2010

Co-Director, Center for Controlled Chemical Delivery, University of Utah, 1986 to 2017

Director, Center for Controlled Chemical Delivery, University of Utah, 2017 to present

Visiting Professor: Université Paris-Nord, 1983, 2000; University of Utah 1986-1988; Academy of Sciences of the Czech Republic, 1995; Tokyo Women's Medical University, 2000.

Head, Laboratory of Biodegradable Polymers, Institute of Macromolecular Chemistry, Czechoslovak Academy of Sciences, Prague 1980-1988

Member, Committee on New Polymers, Ministry of Health, Czechoslovakia 1976-1986 (approval of clinical uses of polymeric materials)

Head, Laboratory of Medical Polymers, Institute of Macromolecular Chemistry, Czechoslovak Academy of Sciences, Prague 1972-1980

Research Scientific Officer, Institute of Macromolecular Chemistry, Czechoslovak Academy of Sciences, Prague 1965-1967 and 1969-1972

## AWARDS

Presidia of the Czechoslovak and USSR Academies of Sciences 1977  
Chemical Section, Czechoslovak Academy of Sciences 1972, 1975, 1977, 1978, 1985  
Barré's Lecture, Université de Montreal, 1990  
Opening Lecture, 34th IUPAC International Symposium on Macromolecules, Prague, 1992  
Program Chairman, 19th International Symposium on Controlled Release of Bioactive  
Materials, Orlando, Florida, 1992  
Distinguished Research Award, University of Utah, 1993  
AAPS Fellow, American Association of Pharmaceutical Scientists, 1994  
AIMBE Fellow, American Institute for Medical and Biological Engineering, 1995  
Huntsman Cancer Institute, Member, since 1995  
Clemson Award for Basic Research, Society for Biomaterials and Clemson University, 1995  
Controlled Release Society           Member of Board of Governors 1988-1991  
  Vice President 1993-1994  
  President-Elect 1994-1995  
  President 1995-1996  
Distinguished Lectureship, Nagai Foundation Tokyo, 1997  
Czech Learned Society, Honorary Member, 1998  
Founders Award, Controlled Release Society, 1999  
J. Heller Award for Best Paper in the Journal of Controlled Release, 1999  
Fellow of Biomaterials Science and Engineering, International Union of Societies of Biomaterials  
Science and Engineering, 1999  
Millennial Pharmaceutical Scientist Award, Millennial World Congress of Pharm. Sciences, 2000  
Paul Dawson Biotechnology Award, American Association of Colleges of Pharmacy, 2001  
Distinguished Professor, University of Utah, 2002  
J. Heyrovský Honorary Medal for Merit in the Chemical Sciences, Academy of Sciences of the Czech Republic,  
2003  
NIH Biomaterials and Biointerfaces Study Section, Chair, 2003-2006  
Chair, Gordon Research Conference on Drug Carriers in Medicine and Biology, 2004  
Busse Lectures, University of Wisconsin, 2006  
Distinguished H. Morawetz Lecture, Brooklyn Polytechnic University, 2006  
Distinguished International Scientist Award, Japanese Biomaterials Society, 2006  
Honorary Professorship, Sichuan University, China, 2007  
CIMA Lecture, University of Minnesota, 2009  
Honorary Co-Chair, 73th Prague Meeting on Macromolecules, "New Frontiers in Macromolecular Science",  
2009  
Plenary Lecture, 36<sup>th</sup> Annual Meeting of the Controlled Release Society, Copenhagen, 2009  
CRS Fellow, Controlled Release Society, 2010  
Lifetime Achievement Award, Journal of Drug Targeting, 2011  
US National Academy of Engineering, Member, 2011  
Honorary Chair, 76<sup>th</sup> Prague Meeting on Macromolecules, "Polymers in Medicine 2012"  
Doctor of Philosophy honoris causa, University of Helsinki, Finland, 2014  
Distinguished Mentor Award, University of Utah, 2017  
Albert Nelson Marquis Lifetime Achievement Award, 2017  
Best Research Paper Award, European Journal of Pharmaceutical Sciences, 2017  
T. & A. Higuchi Memorial Lectureship Award, Academy of Pharmaceutical Science and Technology,  
Japan, 2018  
International Fellow, Academy of Pharmaceutical Science and Technology, Japan, 2018  
US National Academy of Inventors, Elected Fellow, 2018

## EDITORIAL BOARD MEMBERSHIPS

Polymers in Medicine (Wroclaw), 1973-1996  
New Polymeric Materials, 1986-1998  
Journal of Bioactive and Compatible Polymers, 1986-2005  
Polymer Gels and Networks, 1992-1998  
Bioconjugate Chemistry, 1993-2013  
Pharmaceutical Research, 1995-2006  
The AAPS Journal (formerly AAPS PharmSci), 1999-2005  
Biomacromolecules, 2007-2019  
Molecular Pharmaceutics, 2010-2019  
Biomaterials, since 1980  
Critical Reviews in Therapeutic Drug Carrier Systems, since 1981  
Journal of Controlled Release, since 1984  
Journal of Biomaterials Science: Polymer Edition, since 1987  
Drug Delivery, since 1991  
European Journal of Pharmaceutics and Biopharmaceutics, since 1992  
Advanced Drug Delivery Reviews, since 2001  
Journal of Drug Delivery Science and Technology (formerly STP Pharma Sciences), since 2002  
European Journal of Pharmaceutical Sciences, since 2002  
Current Drug Delivery, since 2004  
Macromolecular Bioscience, since 2009  
Czech and Slovak Pharmacy Journal, since 2012

## REVIEWER

*Journals:* ACS Applied Materials & Interfaces; ACS Macro Letters; ACS Nano; Accounts of Chemical Research; Acta Biomaterialia; Advanced Drug Delivery Reviews; Advanced Functional Materials; Advanced Materials; Angewandte Chemie International Edition; Bioconjugate Chemistry; Biomacromolecules; Biomaterials; Biotechnology Advances; Cancer Research; Chemical Reviews; Chemical Society Reviews; Chemistry - A European Journal; Colloids and Surfaces: Biointerfaces; Drug Delivery; European Journal of Pharmaceutical Sciences; European Journal of Pharmaceutics and Biopharmaceutics; European Journal of Pharmaceutical Sciences; Journal of American Chemical Society; Journal of Biomaterials Science, Polymer Edition; Journal of Biomedical Materials Research; Journal of Controlled Release; Journal of Carbohydrate Chemistry; Journal of Drug Targeting; Journal of Gene Medicine; Journal of Medicinal Chemistry; Journal of Pharmaceutical Sciences; Journal of Polymer Science, A: Polymer Chemistry; Langmuir; Macromolecular Bioscience; Macromolecular Chemistry and Physics; Macromolecular Rapid Communications; Macromolecules; Molecular Cancer Therapeutics; Molecular Pharmaceutics; Molecular Therapeutics; Nature Materials; Pharmaceutical Research; Pharmazie; PLOS ONE; Polymer Chemistry; Polymer International; Proceeding of the National Academy of Sciences USA; Progress in Polymer Science; Small; Theranostics.

*Agencies:* Academy of Sciences of the Czech Republic; Air Force (US) Office of Scientific Research; Belgian Agency for Innovation by Science and Technology; British Columbia Health Research Foundation; Canadian Institutes for Health Research; Czech Science Foundation; DoD; ETH Zurich Research Commission, Switzerland; Finish Academy of Sciences; NIH; Netherlands Organization for Scientific Research (NWO); NSF; Ohio Cancer Research Associates; Petroleum Research Fund; University of Nebraska Technology Development Corporation; University of Utah; US-Israel Binational Science Foundation.

*Promotion and Tenure:* Evaluation of faculty promotion files from numerous Universities worldwide.

## SOCIETIES

Controlled Release Society  
Biomaterials Society  
American Chemical Society  
American Association for Cancer Research  
American Association of Pharmaceutical Scientists

## RESEARCH INTERESTS

Biorecognition of Macromolecules; Bioconjugate Chemistry; Drug Delivery Systems; Self-Assembly of Macromolecules.

## H-INDEX AND CITATIONS (Google Scholar 12/05/2023)

H-index: 104; citations: 38,260; i10-index: 412

## RESEARCH GRANTS (total costs; University of Utah) My total grant support (1988-present) was >\$25 million

### Current

Drug-Free Macromolecular Therapeutics RO1 CA246716 (PI: J. Kopeček) NIH/NCI	12/01/19-11/30/24 \$1,744,220
Backbone-degradable Polymer-drug Conjugates for Treatment of Alzheimer Disease Alzheimer Association (Co-PIs: J. Yang, D. Cross; J. Kopeček, Co-I)	07/01/22-01/31/25 \$150,000
Multivalent Polymer-Peptide Antagonist (MPPA) Capable of Superior PD-L1 Inhibition Compared to Existing PD-L1 Antibodies Nanotechnology Characterization Laboratory (NIH/NCI; J. Kopeček, PI) This is a federal (NIH) initiative to enhance the translation of basic research. My lab prepares the samples and the Nanotechnology Characterization Laboratory performs preclinical in vitro and in vivo evaluation free of charge.	12/01/21-until done value ~\$1,000,000
Unrestricted industrial support (J. Kopeček, PI) (since 2016)	\$50,000

### Completed Research Support

DR5 Targeted Nanoconjugates Project No. 10051950 (J. Kopeček, Co-PI; J. Yang, CoPI) Bastion Biologics	4/15/19-1/31/20 \$68,933
University of Utah Research Instrumentation Fund A United Platform for Multimodal Physicochemical Characterization of Macromolecules and Bioconjugates Funds to purchase an up-to-date chromatography system with multiple detection options	5/01/19–4/30/20 \$43,544

<p>Long-Circulating Epirubicin KT-1 Conjugate for Treatment of Solid Tumor  Nanotechnology Characterization Laboratory (NIH/NCI; J. Kopeček, PI)  This is a federal (NIH) initiative to enhance the translation of basic research.  My lab prepared the samples and the Nanotechnology Characterization  Laboratory performed preclinical in vitro and in vivo evaluation free of charge.</p>	<p>11/01/17-06/30/21  value ~\$1,000,000</p>
<p>Drug-Free Macromolecular Therapeutics  R01 GM095606 (PI: J. Kopeček)  NIH/NIGMS</p>	<p>07/01/11-10/31/19  \$2,326,458</p>
<p>Angiopep-2 Mediated Brain delivery for the Treatment of Primary  Central Nervous System Lymphoma  University of Utah Seed Grant</p>	<p>01/01/18-12/31/18  \$35,000</p>
<p>Albumin-based Combination Therapeutics for the Treatment of  B-Cell Lymphomas  Project No.: 180303 (PI: J. Kopeček)  Huntsman Cancer Institute</p>	<p>07/1/17-06/30/19  \$80,000</p>
<p>Synthesis of KT-1  Project No. 10051449  TheraTarget, Inc.</p>	<p>12/01/18-04/30/19  \$27,300</p>
<p>A Multimodal Imaging Strategy for Preclinical Optimization of  Anticancer Nanomedicines  F31 CA203476 (J. Kopeček, Mentor)  NIH/NCI predoctoral support for D.C. Radford</p>	<p>05/01/16-04/30/18  \$69,000</p>
<p>Project 50503163 Bastion Biologics (PI: J. Kopeček)  Rituximab Therapeutics</p>	<p>12/01/16-06/30/17  \$50,000</p>
<p>Backbone Degradable Polymer-Drug Conjugates  for the Treatment of Ovarian Cancer  R42 CA156933 (PI: J. Kopecek)  NIH/CA/STTR Phase II with TheraTarget, Inc.; U of U subcontract</p>	<p>09/01/14-02/28/17  \$995,235  \$560,677</p>
<p>A New Therapeutic Approach for Lymphoproliferative Disorder  Huntsman Cancer Institute Seed Grant (J. Kopeček, PI)  Award No.: 160305</p>	<p>01/01/16-12/31/16  \$20,000</p>
<p>Long-Circulating Targeted Nanomedicines for Leukemia Treatment  Huntsman Cancer Institute Seed Grant (J. Kopeček, Co-I, P. Shami, PI)  Award No.: 160304</p>	<p>01/01/16-12/31/16  \$20,000</p>
<p>FRET Imaging Trackable Long-Circulating Biodegradable  Nanomedicines for Ovarian Cancer Therapy  W81XWH-13-1-0160 (J. Kopeček, PI)  Department of Defense Grant</p>	<p>09/01/13-08/31/15  \$372,500</p>
<p>Development of a Coiled-Coil Therapeutic for Non-Hodgkin's Lymphoma  F31 CA186237 (J. Kopeček, Mentor)  NIH/NCI predoctoral support for J.M. Hartley</p>	<p>06/01/14-05/31/16  \$65,075</p>

Hybridization Mediated Drug Free Macromolecular Therapeutics University of Utah Research Foundation (PI: J. Kopeček)	07/01/13-06/30/14 \$20,000
Double-Targeted Macromolecular Therapeutics for the Treatment of Prostate Cancer R01 CA132831 (PI: J. Kopeček) NIH/NCI	04/01/08-12/31/13 \$1,217,404
Bone Targeted Delivery of Anabolic Agents GM069847 (PI: J. Kopeček) NIH/NIGMS	08/01/04-07/31/13 \$2,313,150
Development of a Novel Gemzar Drug Delivery Construct Huntsman Cancer Institute, IDT Program (PI: J. Kopeček)	08/01/11-12/31/13 \$20,000
Backbone Degradable Polymer-Drug Conjugates for the Treatment of Ovarian Cancer R41 CA156933 (PI: J. Kopeček) NIH/NCI/STTR program Matching Funds from State of Utah	09/01/11-02/28/13 \$90,000 \$40,000
Drug-Free Macromolecular Therapeutics U of U Technology Commercialization Grant (PI: J. Kopeček)	01/01/12-12/31/12 \$35,000
Polymeric Drug Delivery System for Cancer Therapy R01 CA051578 (PI: J. Kopeček) NIH/NCI	09/01/92-04/30/11 \$3,484,990
Supplement to Polymeric Drug Delivery System for Cancer Therapy CA051578-06S1 (PI: J. Kopeček) NIH/NCI	02/01/98-01/31/01 \$118,368
Hybrid Hydrogels Self-Assembled from Graft Copolymers R01 EB005288 (PI: J. Kopeček) NIH/NIBIB	04/01/05-01/31/10 \$1,166,721
Dynamic Hydrogels: Translating Enzyme-Substrate Recognition into Macromolecular Motion U of U Research Foundation (PI: J. Kopeček)	11/01/07-04/30/09 \$48,000
A New Polymer-Drug Combination Therapy for Targeting Ovarian Cancer US-Israel Binational Science Foundation (J. Kopeček, US mentor – junior grant for former student A. David)	10/01/08-09/30/10 Mentor travel costs
Long-Circulating Polymeric Anticancer Nanomedicines Technology Commercialization Grant (PI: J. Kopeček)	01/01/09-12/31/10 \$70,000
Polymer-Peptide Conjugates Industrial (PI: J. Kopeček) Biomeasure	08/01/07-07/31/08 \$25,000
Double-Targeted Macromolecular Therapeutics for the	

Treatment of Ovarian Cancer W81XWH-04-10900 (PI: J. Kopeček) CDMRP (Department of Defense)	10/01/04-09/30/07 \$897,000
Immunochemotherapy for Ovarian Cancer TW006260 (PI: J. Kopeček) NIH/FIC (FIRCA) Collaboration with Czech Academy of Sciences	11/01/04-10/31/07 \$116,988
Targeting to Lymphocytes Mediated by Synthetic Epitopes R01 CA088047 (PI: J. Kopeček) NIH/NCI	03/01/00-02/28/06 \$1,371,375
Development of Novel Targeted Therapy For Multiple Myeloma (PI: J. Kopeček) Multiple Myeloma Research Foundation	11/01/05-10/31/06 \$100,000
HPMA Copolymer Bioconjugates Industrial (PI: J. Kopeček)	05/01/04-07/31/05 \$50,000
Bioconjugates (PI: J. Kopeček) Industrial	04/01/04-03/31/05 \$97,000
Development of a Polymeric Photosensitizer Light Sciences, Inc. (PI: J. Kopeček)	02/01/98-06/30/03 \$197,673
Degradable Hydrogels for Oral Delivery of Calcitonin R01 GM50839 & EB000251 (PI: J. Kopeček) NIH/NIGMS & NIBIB	04/01/95-12/31/03 \$1,553,621
Biorecognizable Sugar Polymers for the Local Treatment of Colon Cancer (US PI: J. Kopeček) US-Israel Binational Science Foundation	11/30/99-10/31/02 \$29,300
Bioadhesive Polymers for Treatment of Colon Disease R01 DK039544 (PI: J. Kopeček) NIH/NIDDK	03/01/88-11/30/02 \$1,468,000
Bioadhesive Polymer Conjugates with Anticancer Activity PA-95-011 (PI: J. Kopeček) NIH/FIC (FIRCA) Collaboration with Czech Academy of Sciences	09/01/98-08/31/01 \$75,000
Hybrid Hydrogels with Swelling Transitions Modulated by Protein Domains (PI: R. Stewart, J. Kopeček, Co-PI) NSF 9807287	08/01/98-07/31/01 \$552,130
Polymers for Protein Modification (Formerly: Vitamin B12 Delivery System) (PI: J. Kopeček) Industrial – Amgen	02/01/93-03/31/00 \$401,090

Macromolecular Analysis Station University of Utah Research Foundation (PI: J. Kopeček)	07/01/98-06/30/99 \$40,000
Genetically Engineered Biomaterials (PI: J. Kopeček) Center of Biopolymers at Interfaces, U of U	10/01/97-09/30/99 \$40,000
Two-Step Targeted Delivery of HPMA Copolymer-Drug Conjugates with Combination Therapy to Human Ovarian Carcinoma CRDF RN1-411 (PI: J. Kopeček)	10/01/97-09/30/99 \$11,400
Photocontrol of Aggregation, Absorption and Biorecognition of Macromolecules (PI: J. Kopeček) Center of Biopolymers at Interfaces, U of U	01/01/98-12/31/98 \$15,600
Biomaterials with Predetermined 3D Structures Center of Biopolymers at Interfaces, U of U (PI: J. Kopeček)	12/01/96-11/30/98 \$13,500
Light Microscopy and Image Analysis Station University of Utah Research Foundation (PI: J. Kopeček)	07/01/96-06/30/97 \$44,000
Evaluation of Hydrophilic Taxol Derivatives Industrial (PI: P. Kopečková; J. Kopeček, Co-PI)	01/31/96-05/31/97 \$150,000
Attachment of Hyaluronate to Surfaces and to PolyHPMA Center of Biopolymers at Interfaces, U of U (PI: J. Kopeček)	10/01/96-09/30/97 \$24,000
Accumulation and Distribution of Polymer-Adriamycin Conjugates in Solid Tumors Huntsman Cancer Institute (PI: J. Kopeček)	07/01/96-06/30/97 19,090
New Family of Amphiphilic Polymers (PI: J. Kopeček) Collaboration with Czech Academy of Sciences	08/01/94-07/31/97 \$66,000
Physical Properties of Proteins and Polynucleotides NIH/NIGMS GM008393 (PI: J. Kopeček) Training grant supporting 7 students/year	07/01/91-06/30/96 \$830,000
Photochemical Modification of Biomaterials Surfaces Center of Biopolymers at Interfaces, U of U (PI: J. Kopeček)	12/01/95-11/30/96 \$12,750
Polymeric Anticancer Drugs for Treatment of Multidrug Resistant Cells University of Utah Research Foundation (PI: J. Kopeček)	07/01/94-06/30/96 \$90,000
Unrestricted industrial support (J. Kopeček, PI)	01/01/88-12/31/96 \$375,000
Bioconjugate Absolute Molecular Weight Detection System University of Utah Research Foundation (PI: J. Kopeček)	07/01/94-06/30-95 \$51,700



Targeting of Macromolecular Prodrugs to B Lymphocytes Industrial (PI: J. Kopeček)	08/01/93-05/31/94 \$76,600
Insulin Absorption Industrial (PI: J. Kopeček)	07/01/90-06/30/93 \$520,000
Light Controlled Adsorption of Macromolecules Center of Biopolymers at Interfaces, U of U (PI: J. Kopeček)	12/01/92-11/30/93 \$24,000
Center for Controlled Chemical Delivery State of Utah Centers of Excellence (PI: S.W. Kim; Co-PI: J. Kopeček)	04/01/89-06/30/93 \$400,000
Dionex BioLC Chromatography System University of Utah Research Foundation (PI: J. Kopeček)	07/01/90-06/30/91 \$30,000
Synthetic Vaccines CONRAD (PI: J. Kopeček)	11/01/90-06/30/91 \$27,300
Regulation of Receptor Binding Army Research Office (PI: J.D. Andrade; Co-PI: J. Kopeček)	10/01/89-09/30/91 \$447,000
Activation of Proenzymes Adsorbed at Solid-Liquid Interfaces Center of Biopolymers at Interfaces, U of U (PI: J. Kopeček)	05/01/90-12/31/91 \$30,000
Optically Controlled Ligand Delivery University Research Committee (PI: J. Kopeček)	11/30/89-10/31/90 \$4,300
Protein Delivery to the Colon (PI: J. Kopeček) Industrial	02/01/89-06/30/90 \$155,800
Targetable Photoactivatable Drugs Biomed. Res. Support Committee	10/01/88-09/30/89 \$4,995
The Potential of Brush Border Enzymes in Oral Drug Delivery College Research Committee (PI: J. Kopeček)	08/01/89-07/31/90 \$3,900
Susceptibility of Proteins Adsorbed at the Solid-Liquid Interface to Enzymically Catalyzed Hydrolysis Center of Biopolymers at Interfaces, U of U (PI: J. Kopeček)	11/01/88-10/31/90 \$30,000
Polymeric Enhancers Industrial (PI: J. Kopeček)	02/01/88-01/31/89 \$147,000
Drug Carrier Research Industrial (PI: J. Kopeček)	02/01/87-01/31/89 \$50,000

## **SUPERVISION OF STUDENTS/COWORKERS (FROM 1988)**

### **Mentor of Ph.D. Dissertations**

- Hung-Reng Lin (Homer Yen), Optically Controlled Ligand Delivery, Department of Materials Science and Engineering, University of Utah, 1991.
- Helle Brøndsted, Hydrogels for Colonic Peptide Delivery, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 1991.
- Nancy L Krinick, Combination Polymer Drugs as Anticancer Agents, Department of Bioengineering, University of Utah, 1992.
- Ping-Yang Yeh, Biodegradable Hydrogels for Colon-Specific Oral Delivery of Proteins, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 1994.
- Hsin-Cheng Chiu, Interactions for Macromolecules with Enzymes: Implications of the Development of Soluble Polymeric Drug Conjugates, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 1994.
- David A. Putnam, Biorecognizable Polymer Conjugates Containing 5-Fluorouracil for the Treatment of Colon Cancer, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 1995.
- Hamid Ghandehari, Oral Colon-specific Drug Delivery: Biodegradable Hydrogel System and Colonic Permeability Characteristics, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 1996.
- Hui-Rong Shen, Contributions to the Study of the Mechanism of Photodynamic Crosslinking of Proteins, Department of Bioengineering, University of Utah, 1998.
- Jane-Guo Shiah, Polymeric Anticancer Drugs: Design, Characterization and Activity toward Human Ovarian Carcinoma in Nude Mice, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 1998.
- Susan Wroblewski, Biorecognizable Lectin-HPMA Copolymer Conjugates: Design, Synthesis and Characterization, Department of Bioengineering, University of Utah, 2000.
- Chun Wang, Hybrid Hydrogels Assembled from Synthetic Polymers and Engineered Protein Domains, Department of Bioengineering, University of Utah, 2001.
- Ayelet David, Targetable HPMA Copolymer Conjugates: Synthesis, Biorecognition, and Cytotoxicity in Human Colon Adenocarcinoma and Hepatocarcinoma Cells, (co-mentored with Prof. Abraham Rubinstein), The Hebrew University of Jerusalem, Israel, 2001.
- Kirk Fowers, Biological Recognition as a Key to Treatment Specificity: from Complement Inhibition to Anti-P-Glycoprotein Targeting of Multidrug Resistant Carcinoma, Department of Bioengineering, University of Utah, 2002.
- Keith Jensen, The Internalization and Fate of HPMA Copolymers and Antisense – HPMA Copolymer Conjugates in Hep G2 Cells, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 2002.
- Aijun Tang, A Lymphocyte-Targeting Polymeric Drug Delivery System Mediated by Receptor-Binding Epitopes: Design, Synthesis and Characterization, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 2002.

- Monica Tijerina, Evaluation of Cellular Responses to Photodynamic Therapy with HPMA Copolymer-Mce<sub>6</sub> Conjugates in Human Ovarian Carcinoma Cells, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 2002.
- Thomas Merdan, Polyethyleneimine and Its Derivatives: Investigation of *In Vivo* Fate, Subcellular Trafficking and Development of Novel Vector Systems, (co-mentored with Prof. Thomas Kissel), Philipps University, Marburg, Germany, 2003.
- Aparna Nori, Design, Synthesis and Evaluation of HPMA Copolymers-TAT Conjugates as Potential Carriers for Drug Delivery, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 2005.
- Chunyu Xu, Protein-based Hydrogels Self-assembled from genetically Engineered Triblock Polypeptides Containing Coiled-Coil Domains, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 2006.
- Hui Ding, Identification of Peptides Targeting CD21 Receptor and Investigation of the Binding of HPMA Copolymer-Peptide Conjugates, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 2006.
- Vaikunth Cuchelkar, Strategies for Enhancing the Photodynamic Effect of *N*-(2-Hydroxypropyl)methacrylamide Copolymer Bound Mesochlorin e<sub>6</sub>, Department of Bioengineering, University of Utah, 2008.
- Padmanabh Chivukula, Design, Synthesis and Evaluation of Biodegradable Hydrogels and Novel Polymeric Nanocarriers for the Treatment of Colorectal Cancer, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 2008.
- Songqi Gao, Colon-Specific Delivery of HPMA Copolymer-9-Aminocamptothecin Conjugates for the Treatment of Colon Cancer, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 2008.
- Jarunee Hongrapipat, Binary Combinations of HPMA Copolymer Bound Anticancer Drug Conjugates, (co-mentored with Prof. Sompol Prakongpan), Mahidol University, Bangkok, Thailand, 2008.
- Russell Johnson, Multivalent Strategies Targeting the B-cell Antigen CD20, Department of Bioengineering, University of Utah, 2009.
- Kuangshi Wu, Molecular Biorecognition of Coiled-Coil Motifs in the Construction of Hybrid Hydrogels and Drug-Free Macromolecular Therapeutics, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 2010.
- Larisa Radu-Wu, Beta-Sheet Peptide-Mediated Self-Assembly of HPMA Copolymers into Nanostructured Biomaterials, Department of Bioengineering, University of Utah, 2010.
- Yan (Zoe) Zhou, Combination Nanomedicine Targeting Cancer Stem Cells and Bulk Tumor Cells for Treatment of Prostate Cancer, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 2014.
- Zhenghong (Joseph) Peng, Stimuli-Responsive Targeted Therapeutics for Treatment of Primary and Metastatic Prostate Cancer, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 2014.
- Te-Wei Chu, Drug-Free Macromolecular Therapeutics for Treatment of B-Cell Malignancies, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 2015.
- Stewart Low, Micellar Strategies for Targeting Bone Diseases, Department of Bioengineering, University of Utah, 2015.
- Jonathan M. Hartley, Super-Resolution Imaging of Drug-Free Macromolecular Therapeutics, Department of Bioengineering, University of Utah, 2016.

Jon Doyle Callahan, The Use of HPMA Copolymer Conjugates for the Intracellular Targeting of Anticancer Drugs, Department of Bioengineering, University of Utah, 2017.

Jiawei Wang, Drug-Free Macromolecular Therapeutics as a B Cell Depletion Strategy, University of Utah, 2021.

D. Christopher Radford, Receptor Crosslinking to Enhance Cellular Uptake of HPMA Copolymer-Based Anticancer Nanomedicines, University of Utah, 2022.

M. Thomas Gambles, The Versatile Design of Drug-Free Macromolecular Therapeutics Against B Cell Malignancies. University of Utah, 2023.

### **Mentor of M.S. Theses**

Nancy L. Krinick, Polymer Conjugates Containing Photosensitizable Bonds: 1. Photosensitizable Drugs 2. Photosensitizable Bonds, Department of Bioengineering, University of Utah, 1989.

Yil Woong Yi, A Thermoplastic Biodegradable Hydrogel Based on Polylactide/PEG/Polylactide Triblock Copolymers, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 1994

Kirk Fowers, Development of a Fibrinolytic Surface: Specific and Nonspecific Interactions of Plasminogen, Department of Bioengineering, University of Utah, 1995.

Peter R. Hart, Development of HPMA Copolymer Conjugates for Delivery of a Photosensitizer, Department of Bioengineering, University of Utah, 1998.

Chun Wang, De Novo Design of Hybrid Hydrogels: Synthetic Polymers Crosslinked by Genetically Engineered Coiled-Coil Protein Domains, Department of Bioengineering, University of Utah, 1998.

Richard Lu, Design and Feasibility Study of Calcitonin and Polymeric Cathepsin K Inhibitor for Colon Delivery, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 2000.

Christopher Tully, Antibody Mediated Control of Hydrogel Thermal Volume Phase Transition, Department of Materials Science and Engineering, University of Utah, 2004.

Weiwei Yuan, Smart Hydrogels Containing Adenylate Kinase: Translating Substrate Recognition into Macroscopic Motion, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, 2008.

Stefan G. Krimmer, Synthesis and *In Vitro* Characterization of PCL-PPHMA Polymeric Micelles for Drug Delivery (Degree: Diplom-Pharmazeut), Martin-Luther University Halle-Wittenberg. Germany, 2011. Mr. Krimmer was Exchange Student within the Global Pharmaceutics Educational Network.

Sven Lehsing, Synthesis and In Vitro Evaluation of a Novel Inductor of B-Cell Apoptosis (Degree: Diplom-Pharmazeut), University of Jena, Germany, 2011. Mr. Lehsing was Exchange Student within the Global Pharmaceutics Educational Network.

### **Research/Visiting Faculty**

Pavla Kopečková, Ph.D.	Research Professor	1988-2011
Karel Ulbrich, Ph.D.	Adjunct Professor	1987, 1992
Blanka Říhová, Ph.D.	Adjunct Professor	1990, 1992, 1994, 1996, 1997
Čestmír Koňák, Ph.D.	Adjunct Associate Professor	total 2 years in lab 1990-1998
Vladimir Omelyanenko, Ph.D.	Research Associate Professor	1993-1998
Tamara Minko, Ph.D.	Research Assistant Professor	1997-2000

Zheng-Rong Lu, Ph.D.	Research Assistant Professor	1996-2001
Dong Wang, Ph.D.	Research Assistant Professor	1998-2004
Jihua Liu, M.D., Ph.D.	Research Assistant Professor	2005-2010
Huaizhong Pan, Ph.D.	Research Assistant Professor	2005-2012
Jlyuan (Jane) Yang, Ph.D.	Research Professor	2003-present

### **Postdoctoral Fellows and Visiting Scholars**

Ramakrishna Madabhushi, Ph.D.	India	1987-1988
Lubor Fornůšek, Ph.D.	Czech Republic	1988-1989
Martin Příkladný, Ph.D.	Czech Republic	1989-1990
Sven Oscarsson, Ph.D.	Sweden	1989-1991
Koichi Ikesue	Japan	1989-1991
Ramesh Rathi, Ph.D.	India	1990-1996
H.-R. Lin (Homer Yen), Ph.D.	Taiwan	1991-1992
Zhong-Wei Gu	China	1991-1993
Shigeyuki Takada, Ph.D.	Japan	1992-1993
Shigeru Kamei, Ph.D.	Japan	1993-1994
Ping-Yang Yeh, Ph.D.	Taiwan	1994-1995
Christine Gentry, Ph.D.	USA	1994-1997
Emmanuel Akala, Ph.D.	Nigeria	1994-1997
Christine Vauthier, Ph.D.	France	1995-1996
Michal Pechar, Ph.D.	Czech Republic	1996, 2000-2001
Mikhail A. Slinkin, Ph.D.	Russia	1998
Won-Moon Choi, Ph.D.	Korea	1997-1998
Milan Dvořák, Ph.D.	Czech Republic	1997-1998
Marina Demoy, Ph.D.	France	1998-1999
Jane-Guo Shiah, Ph.D.	Taiwan	1998-2000
Shinji Sakuma, Ph.D.	Japan	1999-2001
Yuji Kasuya, Ph.D.	Japan	1999-2001
Nobuhiro Nishiyama, Ph.D.	Japan	2001-2003
Claudia Gervelas, Ph.D.	France	2001-2003
Alexander Malugin, Ph.D.	Russia	2001-2007
Timucin Ugurlu, Ph.D.	Turkey	2008
Kui Luo, Ph.D.	China	2009-2011
Acharaporn (Oi) Duangjai	Thailand	2011-2012
Miloslav Kverka, M.D., Ph.D.	Czech Republic	2013
Mohamed Alaa	Egypt	2013
Yuling Li, Ph.D.	China	2014-2015
Huaizhong Pan, Ph.D.	USA	2014-2016
Rui Zhang, Ph.D.	China	2011-2016

Yixin Feng, Ph.D.	China	2015-2016
Libin Zhang, Ph.D.	China	2015-2017
Susumu Hama, Ph.D.	Japan	2017-2018
Zhou Zhou, Ph.D.	China	2018-2019
Lenka Kotrčová, Ph.D.	Czech Republic	2019
Lian Li, Ph.D.	China	2016-2020
Aparna Shukla, Ph.D.	India	2021
Inush Kalana, Ph.D.	Sri Lanka	2021-2022
Md H. Al Faruque	Bangladesh/Korea	2022-present

### **Visiting and Exchange Students**

Bing Li	China	1994-1995
Betina Sørensen	Denmark	1995
Catharina Åserud	Norway	1995-1996
Ayelet David	Israel	1997, 1998, 1999, 2000
Klaus Kunath	Germany	1997-1998
Csanad Varga	USA	1998-1999
Jeroen Bowmeester	The Netherlands	1999-2000
Thomas Merdan	Germany	1999, 2000, 2001, 2002, 2003
Signe Ridderberg	Denmark	1999
Boris Petri	Germany	2000
Timucin Ugurlu	Turkey	2000
Barbara Pecharová	Czech Republic	2000-2001
Lauri Paasonen	Finland	2002
Caroline Kablitz	Germany	2002-2003
Aaron Mohs	USA	2003
Anagha Vaidya	USA	2003
Huifen Gao	USA	2004
Xiaosong Huang	USA	2004
Nicole Tietze	Germany	2004
Heather Pressler	USA	2005
Michael Cross	USA	2006
Crystal Shipley	USA	2006
Ashanni Kuttan	India	2006
Alamelu Mahalingam	India	2007
Jarunee Hongrapipat	Thailand	2005-2007
Shraddha Sadekar	India	2008
Ehud Segal	Israel	2008
Hillevi Bauer	Germany	2008-2009
Solvejg Langer	Germany	2008-2009
Michael Jacobsen	USA	2009-2012

Stefan Krimmer	Germany	2010
Sven Lehsing	Germany	2010-2011
Staffan Berg	Finland	2011
Nick Frazier	USA	2011
Thomas Gambles	USA	2011
Jonathan Falconer	USA	2011
Qian (Susan) Sun	China	2012
Regina Heidchen	Germany	2012-2013
Stefan Rudolph	Germany	2013
Bin Zhang	USA	2013
Haj-Valizadeh Hasan	USA	2013
Ladan Jiracek	USA	2013
Shwan Javdan	USA	2013-2014
Steven Merrill	USA	2013-2014
Anindita Roy	USA	2014
Johannes Betz	Germany	2014-2015
Jiayue (Joy) Feng	USA	2014-2017
Jack Veverka	USA	2015
Keith Arlotta	USA	2015
Uwe Lichtenberg	Germany	2016
Christian Kodele	USA	2016-2018
Sirima Soodvilai	Thailand	2017-2018
Mai Doan	USA	2016-2018
Yachao Li	China	2018-2019
Christian Bode	Germany	2018-2019
Kehinde Salako	Nigeria	2019-2020
Madison Parrot	USA	2021
Thomas McPartlon	USA	2021
Yunyue Zhang	China	2021-2022
Jacob Galang	USA	2022
Youssef Harraq	USA	2022
Youngjae Lee	USA	2022
Jaden Arnold	USA	2021-2023
Mudassir Abbasi	Pakistan	2022-2023
Sophie Hu-Lieskovan	USA	2023
Isaac Kendell	USA	2023-present
Lara Schlikmann	USA	2023-present

**Member of Ph.D./M/S. Supervisory Committees**

David W. Grainger	Ph.D., Pharmaceuticals	Member, completed 1987
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You Han Bae	Ph.D., Pharmaceutics	Member, completed 1988
Xiaoling Li	Ph.D., Pharmaceutics	Member, completed 1991
Lard Hovgaard	Ph.D., Pharmaceutics	Member, completed 1991
Glen Kwon	Ph.D., Pharmaceutics	Member, completed 1991
Chaul Min Pai	Ph.D., Pharmaceutics	Member, completed 1991
Cynthia Goates	Ph.D., Pharmaceutics	Member, completed 1992
Ick Chan Kwon	Ph.D., Pharmaceutics	Member, completed 1993
Todd Darrington	Ph.D., Pharmaceutics	Member, completed 1993
Jenqthun Li	Ph.D., Chemical Eng.	Member, completed 1993
Mahesh Balgat	Ph.D., Medicinal Chemistry	Member; completed 1994
Kristopher James	M.S., Bioengineering	Member, completed 1994
I-Nan Chang	Ph.D., Mat. Sci. & Eng.	Member, completed 1994
Chin-Hu Ho	Ph.D., Mat. Sci. & Eng.	Member, completed 1995
Chrisrine Gentry	Ph.D., Pharmaceutics	Member, completed 1995
Kevin Savory	Ph.D., Bioengineering	Member; completed 1995
Karl Wenger	Ph.D., Bioengineering	Member; completed 1995
Chung-Yih Wang	Ph.D., Bioengineering	Member; completed 1996
Young K. Choi	Ph.D., Pharmaceutics	Member, completed 1996
Dhileep Krishnamurty	Ph.D., Chemistry	Member, completed 1996
Mary Mulder	Ph.D., Bioengineering	Member, completed 1997
Christine Taylor	Ph.D., Bioengineering	Member; completed 1998
Brent Vernon	Ph.D., Pharmaceutics	Member, completed 1998
Zhidong Chen	Ph.D., Pharmaceutics	Member, completed 1998
Chaaya Ramkisoon	Ph.D., Pharmaceutics	Member, completed 1999
Byemong Jeong	Ph.D., Pharmaceutics	Member, completed 1999
Michael Pierce	Ph.D., Bioengineering	Member, completed 1999
Dong Joon Min	Ph.D., Mat. Sci. & Eng.	Member, completed 1999
Ralph Oakeson	Ph.D., Mat. Sci. & Eng.	Member, completed 2000
Qi-Lie Luo	Ph.D., Mat. Sci. & Eng.	Member, completed 2000
Ken Hinds	Ph.D., Pharmaceutics	Member, completed 2000
Wonhee Suh	Ph.D., Pharmaceutics	Member, completed 2001
Robert Larson	Ph.D., Pharmaceutics	Member, completed 2001
Robert Hitchcock	Ph.D., Bioengineering	Member, completed 2001
Trina van Ausdal	M.S., Bioengineering	Member, completed 2001
Mike Manwaring	Ph.D., Bioengineering	Member, completed 2002
Jennifer Neff	Ph.D., Bioengineering	Member, completed 2002
James Cavanaugh	Ph.D., Pharmaceutics	Member, completed 2002
Kelly Kirker	Ph.D., Bioengineering	Member, completed 2003
Roy Smeal	Ph.D., Bioengineering	Member, completed 2003
Xuejun Wen	Ph.D., Bioengineering	Member, completed 2003
Suna Choi	Ph.D., Pharmaceutics	Member, completed 2004



Charu Kanwal	Ph.D., Pharmaceutics	Member, completed 2004
Michael Bridge	Ph.D., Bioengineering	Member, completed 2005
Henan Li	Ph.D., Pharmaceutics	Member, completed 2005
Mark Stevens	M.S., Bioengineering	Member, completed 2005
Sivakumar Ramachandran	Ph.D., Pharmaceutics	Member, completed 2005
Youg-Tae Kim	Ph.D., Bioengineering	Member, completed 2006
Prashant Tathireddy	Ph.D., Chemical Engineering	Member, completed 2006
Jeremy Guo	Ph.D., Pharmaceutics	Member, completed 2007
Vijay Sethuraman	Ph.D., Pharmaceutics	Member, completed 2007
Bing Leng	Ph.D., Bioengineering	Member, completed 2007
Yuda Zong	Ph.D., Pharmaceutics	Member, completed 2008
Anagha Vaidya	Ph.D., Pharmaceutics	Member, completed 2008
Todd Kaneshiro	Ph.D., Pharmaceutics	Member, completed 2008
Xiaoyu Chen	Ph.D., Bioengineering	Member, completed 2008
Mark Eddings	Ph.D., Bioengineering	Member, completed 2008
Huifen Gao	Ph.D., Pharmaceutics	Member, completed 2008
Furong Ye	Ph.D., Pharmaceutics	Member, completed 2009
Rongzuo Xu	Ph.D., Pharmaceutics	Member, completed 2009
Dongjin Kim	Ph.D., Pharmaceutics	Member, completed 2009
Mike Cross	Ph.D., Chemistry	Member, completed 2009
Julie Jay	Ph.D., Pharmaceutics	Member, completed 2010
Hui Shao	Ph.D., Bioengineering	Member, completed 2010
Katie Blevins	Ph.D., Bioengineering	Member, completed 2010
Kristina Giantsos	Ph.D., Pharmaceutics	Member, completed 2010
Andy Dixon	Ph.D., Pharmaceutics	Member, completed 2011
Deepa Mishra	Ph.D., Bioengineering	Member, completed 2011
Mark Liddell	Ph.D., Pharmaceutics	Member, completed 2011
Vy My Tran	Ph.D., Bioengineering	Member, completed 2012
Joshua Gustafson	Ph.D., Bioengineering	Member, completed 2012
Zhen Ye	Ph.D., Pharmaceutics	Member, completed 2012
Archana Rao	Ph.D., Pharmaceutics	Member, completed 2012
Nate Larson	Ph.D., Pharmaceutics	Member, completed 2013
Giridhar Thiagarajan	Ph.D., Bioengineering	Member, completed 2013
Brandon Buckway	Ph.D., Pharmaceutics	Member, completed 2013
Shraddha Sadekar	Ph.D., Pharmaceutics	Member, completed 2013
Li Tian	Ph.D., Pharmaceutics	Member, completed 2013
Stelios Florinas	Ph.D., Pharmaceutics	Member, completed 2014
Abood Okal	Ph.D., Pharmaceutics	Member, completed 2014
Robert A. Price	Ph.D., Pharmaceutics	Member, completed 2014
Karthik Raman	Ph.D., Bioengineering	Member, completed 2014
Dallin Hubbard	Ph.D., Bioengineering	Member, completed 2015

Tony Wentai Hsiao	Ph.D., Bioengineering	Member, completed 2015
Azadeh Poursaid	MD/PhD Bioengineering	Member, completed 2016
Darren Stirland	Ph.D., Bioengineering	Member, completed 2016
Nick Frazier	Ph.D., Bioengineering	Member, completed 2016
Dwight Lane	Ph.D., Bioengineering	Member, completed 2017
Joshua P. Jones	Ph.D., Bioengineering	Member, completed 2017
Tram Huynh Ngoc Nguyen	Ph.D., Chem. Engineering	Member, completed 2017
Chieh-Hsiang Yang	Ph.D., Bioengineering	Member, completed 2017
Bharath Velagapudi	Ph.D., Bioengineering	Member, completed 2017
Leland Jack Prather	M.S., Bioengineering	Member, completed 2018
Peng Zhao	Ph.D., Pharmaceuticals	Member, completed 2018
Yiling Bi	Ph.D., Medicinal Chemistry	Member, completed 2018
Lucas L. Bennink	Ph.D., Bioengineering	Member, completed 2018
Pouya Hadipour	Ph.D., Pharmaceuticals	Member, completed 2018
Elizabeth Pumford	M.S., Bioengineering	Member, completed 2019
Jie Shi Chua	Ph.D., Bioengineering	Member, completed 2019
Kyle Isaakson	Ph.D., Bioengineering	Member, completed 2020
Spencer Judd Brown	Ph.D., Medicinal Chemistry	Member, completed 2020
Brett H. Davis	Ph.D., Bioengineering	Member, completed 2020
Jinya Yin	Ph.D., Chemistry	Member, completed 2021
Nitish Khurana	Ph.D., Pharmaceuticals	Member, completed 2021
Zachary Clauss	Ph.D., Bioengineering	Member, completed 2022
Douglas Steinhauff	Ph.D., Bioengineering	Member, completed 2022
Phong Lu	Ph.D., Pharmaceuticals	Member, completed 2022
Nithya B. Subrahmanyam	Ph.D., Pharmaceuticals	Member, completed 2023
Jemi Ong	Ph.D., Bioengineering	Member, completed 2023
Bhuvaneshkumar Yathavan	Ph.D., Pharmaceuticals	Member, completed 2023
Joshua N. Burton	Ph.D., Bioengineering	Member
Carena Cornelssen	Ph.D., Bioengineering	Member
Matthew Wilson	Ph.D., Bioengineering	Member
Matthew Talbot	Ph.D., Bioengineering	Member
Ethan Griswold	Ph.D., Bioengineering	Member
Priyanka Arunachalam	Ph.D., Bioengineering	Member
Kholod Elhasany	Ph.D., Pharmaceuticals	Member
Debika Ghatak	Ph.D., Pharmaceuticals	Member
Adnan Adnan	Ph.D., Pharmaceuticals	Member
Jiahui Li	Ph.D., Pharmaceuticals	Chairman
Shannuo Li	Ph.D., Pharmaceuticals	Chairman
Jaden Arnold	M.S., Bioengineering	Chairman
Issac Kendell	M.S., Bioengineering	Chairman

## STUDENT AWARDS

- Hamid Ghandehari*, CRS-3M Pharmaceuticals Graduate Student Outstanding Research Award in Drug Delivery, 1995
- David Putnam*, CRS-Capsugel Special Session Award, 1996
- Jane-Guo Shiah*, Controlled Release Society (CRS)-3M Pharmaceutical Graduate Student Outstanding Research Award, 1998
- Chun Wang*, CRS-Dow Corning Graduate Student Outstanding Research Award, 1998
- Chun Wang*, CRS-Capsugel Graduate Student Award, 1998
- Ayelet David*, CRS-Capsugel Special Session Award, 2000
- Ayelet David*, CRS Award for Outstanding Graduate Research, 2000
- Aijun Tang*, Biotechnology Award, American Association of Pharmaceutical Scientists, 2001
- Vaikunth Cuchelkar*, Best student presentation, 31<sup>st</sup> International Symposium on Controlled Release of Bioactive Materials, Honolulu, HI, June 12-16, 2004
- Vaikunth Cuchelkar*, Graduate Fellowship Award, University of Utah, 2005
- Padmanabh Chivukula*, American Foundation for Pharmaceutical Education Award, 2005, 2006
- Kuangshi Wu*, American Foundation for Pharmaceutical Education Award, 2007, 2008, 2009
- Stewart Low*, "Summer Internship Program 2012" Global COE Program "Center for Medical System Innovation". Stipend to study in Prof. Kataoka's lab at the University of Tokyo from July 2 to Aug 24, 2012.
- Yan (Zoe) Zhou*, Department representative at the 2012 GPEN Conference in Melbourne, Australia November 28-December 1, 2012 (included travel award).
- Yan (Zoe) Zhou*, University of Utah Graduate Research Fellowship, 2013-2014.
- Rui Zhang*, Elsevier's Journal of Controlled Release Poster Award at the 16<sup>th</sup> International Symposium on Recent Advances in Drug Delivery Systems, February 2013.
- Steven Merrill*, Undergraduate Research Fellowship (UROP) Award, 2013, 2014.
- Te-Wei Chu*, University of Utah Graduate Research Fellowship, 2014-2015.
- Te-Wei Chu*, Best Young Scientist Poster Award at the 17th International Symposium on Recent Advances in Drug Delivery Systems in Salt Lake City, June 14-17, 2015.
- Jonathan Hartley*, Biomaterials Science Outstanding Poster Award at the 13th International Nanomedicine & Drug Delivery Symposium in Seattle, September 16-18, 2015.
- Jonathan Hartley*, NIH Predoctoral Fellowship (recipient of the F31 grant award) 2014-2016.
- Jiayue Feng (Chemistry)*, Undergraduate Research Fellowship (UROP) Award, 2015.
- Jiayue Feng*, Undergraduate Research Award from the Department of Chemistry, 2016.
- Te-Wei Chu*, Travel Award and podium presentation at the AAPS National Biotechnology Conference in San Diego, May 19-21, 2014.
- Te-Wei Chu*, Best Podium Presentation Award, 2014 GPEN Conference, Helsinki, Finland, August 27-30, 2014.
- Shwan Javdan*, Undergraduate Research Fellowship (UROP) Award, 2013, 2014.
- Shwan Javdan*, Selected to present his data at the National Conference on Undergraduate Research, University of Kentucky, April 3-5, 2014 (included travel award).
- Shwan Javdan*, 1<sup>st</sup> Place Poster Presentation Award, Department of Bioengineering Annual Conference, 2015.
- The publication* "HPMA Copolymer-based Combination Therapy Toxic to both Prostate Cancer Stem/Progenitor Cells and Differentiated Cells Induces Durable Antitumor Effects" by **Y. Zhou**, J. Yang, J. Rhim, J. Kopeček published in the Journal of Controlled Release 172, 946-953 (2013) was highlighted as

the TOP STORY in Prostate Cell News 4.36, September 20, 2013. *First author Y. Zhou was a Graduate Student.*

*The publication “Cell Surface Self-Assembly of Hybrid Nanoconjugates via Oligonucleotide Hybridization Induces Apoptosis” by T.-W. Chu, J. Yang, R. Zhang, M. Sima, J. Kopeček published in ACSNano 8, 719-730 (2014) was highlighted in Chemical & Engineering News in January 2014, see <http://cen.acs.org/articles/92/web/2014/01/Nanoconjugates-Trigger-Cancer-Cell-Suicide.html>. First author T.-W. Chu was a Graduate Student.*

*D. Christopher Radford, NIH Predoctoral Fellowship (recipient of the F31 grant award) 2016-2018.*

*Mai Doan, Undergraduate Research Fellowship (UROP) Award, 2016, 2017*

*Christian Kodele, Undergraduate Research Fellowship (UROP) Award, 2017*

*D. Christopher Radford, 3<sup>rd</sup> Place Oral Presentation Award, Utah Bioengineering Conference 2017*

*Jiawei Wang, Arcturus Fellowship Award, 2019*

*D. Christopher Radford, Best Poster Award (sponsored by the Journal of Controlled Release), International Symposium on Biomedical Materials for Drug/Gene Delivery, Salt Lake City, Utah, February 7-8, 2020*

*Yunyue Zhang Undergraduate Research Fellowship (UROP) Award, 2022*

*Jaden Arnold, Undergraduate Research Fellowship (UROP) Award, 2022*

*Tommy Gambles, Skaggs Fellowship Award, College of Pharmacy, University of Utah, 2022-2023*

*Shannuo Li, Curci Fellowship Award, Curci Foundation, 2022-2024.*

*Issac Kendell, Undergraduate Research Fellowship (UROP) Award, 2023.*

## PUBLICATIONS

1. J. Kopeček, J. Jokl, D. Lím, Mechanism of Three-Dimensional Polymerization of Glycol Methacrylates (in German). *J. Polym. Sci. C* 16, 3877-3889 (1968).
2. J. Jokl, J. Kopeček, D. Lím, Mechanism of Three-Dimensional Polymerization of the System Methyl Methacrylate - Glycol Dimethacrylate. Determination of the Structure of the Three-Dimensional Product. *J. Polym. Sci. A-1*, 6, 3041-3048 (1968).
3. J. Kopeček, S. Sourirajan, Structure of Porous Cellulose Acetate Membranes and a Method for Improving Their Performance in Reverse Osmosis. *J. Appl. Polym. Sci.* 13, 637-657 (1969).
4. J. Kopeček, S. Sourirajan, Performance of Porous Cellulose Acetate Membranes in Some Reverse Osmosis Experiments. *Ind. Eng. Chem. Prod. Res. Develop.* 8, 274-279 (1969).
5. J. Kopeček, S. Sourirajan, Equisorptic Composition in Reverse Osmosis. *Can. J. Chem.* 47, 3467-3469 (1969).
6. J. Kopeček, Reverse Osmosis (in Czech). *Chem. listy* 63, 1338-1353 (1969).
7. J. Kopeček, S. Sourirajan, Performance of Porous Cellulose Acetate Membranes for the Reverse Osmosis Separation of Organic Liquids. *Ind. Eng. Chem. Process Design Develop.* 9, 5-12 (1970)
8. L. Šprincl, J. Vacík, J. Kopeček, D. Lím, Biological Tolerance of Poly(*N*-Substituted Methacrylamides). *J. Biomed. Mater. Res.* 5, 197-205 (1971).
9. J. Kopeček, D. Lím, Mechanism of Three-Dimensional Polymerization of Glycol Methacrylates. II. The System Glycol Monomethacrylate - Glycol Dimethacrylates – Solvents. *J. Polym. Sci. A-1*, 9, 147-154 (1971).
10. J. Kopeček, J. Vacík, D. Lím, Permeability of Membranes Containing Ionogenic Groups. *J. Polym. Sci. A-1*, 9, 2801-2815 (1971).
11. L. Šprincl, J. Kopeček, D. Lím, Effect of Porosity of Heterogeneous Poly(Glycol Monomethacrylate) Gels on the Healing-in of Test Implants. *J. Biomed. Mater. Res.* 5, 447-458 (1971).
12. J. Kopeček, D. Lím, Mechanism of Three-Dimensional Polymerization of Glycol Methacrylates III. Contribution to the Polymerization Kinetics of the System Diglycol Monomethacrylate - Glycol Dimethacrylates – Water. *Collection Czechoslov. Chem. Commun.* 36, 2703-2707 (1971).
13. J. Kopeček, D. Lím, Mechanism of Three-Dimensional Polymerization of Glycol Methacrylates. IV. The System Triglycol Monomethacrylate - Glycol Dimethacrylates – Water. *Collection Czechoslov. Chem. Commun.* 36, 3394-3398 (1971).
14. L. Šprincl, J. Vacík, J. Kopeček, Biological Tolerance of Ionogenic Hydrophilic Gels. *J. Biomed. Mater. Res.* 7, 123-136 (1973).
15. J. Kopeček, L. Šprincl, H. Bažilová, J. Vacík, Biological Tolerance of Poly(*N*-Substituted Acrylamides). *J. Biomed. Mater. Res.* 7, 111-121 (1973).
16. J. Kopeček, J. Vacík, Effect of Hydrophilic Character of the Polymeric Backbone on Membrane Permeability. *Collection Czechoslov. Chem. Commun.* 38, 854-860 (1973).
17. J. Kopeček, L. Šprincl, D. Lím, New Types of Synthetic Infusion Solutions. I. Investigation of the Effect of Solutions of Some Hydrophilic Polymers on Blood. *J. Biomed. Mater. Res.* 7, 179-191 (1973).

18. L. Šprincl, J. Kopeček, D. Lím, Effect of the Structure of Poly(Glycol Monomethacrylate) Gels on the Calcification of Implants. *Calc. Tiss. Res.* 13, 63-72 (1973).
19. J. Kopeček, H. Bažilová, Poly[*N*-(2-Hydroxypropyl)methacrylamide]. 1. Radical Polymerization and Copolymerization. *Europ. Polym. J.* 9, 7-14 (1973).
20. K. Ulbrich, L. Šprincl, J. Kopeček, Biocompatibility of Poly(2,4-Pentadiene-1-ol). *J. Biomed. Mater. Res.* 8, 155-161 (1974).
21. J. Kopeček, L. Šprincl, Relationship Between the Structure and Biocompatibility of Hydrophilic Gels. *Polymers in Medicine (Wroclaw)* 4, 109-117 (1974).
22. M. Bohdanecký, H. Bažilová, J. Kopeček, Poly[*N*-(2-Hydroxypropyl)methacrylamide]. II. Hydrodynamic Properties of Diluted Polymer Solutions. *Europ. Polym. J.* 10, 405-410 (1974).
23. J. Kopeček, H. Bažilová, Poly[*N*-(2-Hydroxypropyl)methacrylamide]. III. Crosslinking Copolymerization. *Europ. Polym. J.* 10, 465-470 (1974).
24. L. Šprincl, J. Kálal, J. Kopeček, Evaluation of Biological Properties of Polymeric Materials (in Czech). *Lékař a technika* 6, 110-114 (1974).
25. J. Kolařík, J. Vacík, J. Kopeček, Relaxation Behaviour of Poly(2-Hydroxyethyl Acrylate) and its Copolymers with 2-Hydroxyethyl Methacrylate. *Intern. J. Polym. Mater.* 3, 259-268 (1975).
26. Z. Voldřich, Z. Tománek, J. Vacík, J. Kopeček, Long-Term Experience with the Poly(Glycol Monomethacrylate) Gel in Plastic Operations of the Nose. *J. Biomed. Mater. Res.* 9, 675-685 (1975).
27. J. Vacík, V. Kúdela, J. Kopeček, Concentration Potentials of Hydrophilic Membranes Containing Ionogenic Groups. *Europ. Polym. J.* 11, 331-335 (1975).
28. Š. Luby, E. Sumbalová, J. Kopeček, Adjusting of Thin Layer Resistors with an Anodizing Electrode (in Czech). *Elektrotechnický časopis* 26, 297-304 (1975).
29. J. Vacík, J. Kopeček, Specific Resistances of Hydrophilic Membranes Containing Ionogenic Groups. *J. Appl. Polym. Sci.* 19, 3029-3044 (1975).
30. O. Šterba, E. Paluska, O. Jozová, J. Špunda, J. Nezvalová, L. Šprincl, J. Kopeček, J. Činátl, New Types of Synthetic Infusion Solutions. II. Basic Biological Properties of Poly[*N*-(2-Hydroxypropyl)methacrylamide] (in Czech). *Časopis lék. českých* 114, 1268-1270 (1975).
31. J. Kolařík, J. Kopeček, J. Vacík, J. Janáček, Relaxation Behaviour of Poly(*N*-Monosubstituted Methacrylamides). *Intern. J. Polym. Mater.* 5, 89-97 (1976).
32. J. Janáček, J. Kolařík, J. Vacík, J. Kopeček, Mechanical Responses of 2-Hydroxyethyl Methacrylate - Methacrylonitrile and 2-Hydroxyethyl Methacrylate - Acrylonitrile Copolymer Networks. *Intern. J. Polym. Mater.* 5, 59-70 (1976).
33. J. Strohalm, K. Ulbrich, J. Exner, J. Kopeček, Copolymerization of *N*-Ethylacrylamide with *N*-Monosubstituted Methacrylamides. *Angew. Makromol. Chem.* 49, 83-92 (1976).
34. T.E. Lipatova, G.A. Pchakadze, T.L. Tereščenko, L. Šprincl, J. Kálal, J. Kopeček, New Types of Polyurethane Tissue Adhesives and Their Application in Surgery (In Czech). *Voj. zdrav. Listy* 45, 25-29 (1976).
35. K. Ulbrich, J. Kopeček, Radical Polymerization of *N*-Substituted Methacrylamides. *Europ. Polym. J.* 12, 183-187 (1976).

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558. M.T. Gambles, J. Li, D.C. Radford, D. Sborov, P. Shami, J. Yang, J. Kopeček, Heteroreceptor Crosslinking Induces a Synergetic Therapeutic Response in Malignant B Cells. 18<sup>th</sup> International Symposium on Recent Advances in Drug Delivery Systems, Salt Lake City, Utah, February 22-24, 2022.
559. J. Yang, M.T. Gambles, J. Li, D.C. Radford, D. Sborov, P. Shami, J. Kopeček, A New Platform Technology of Antibody-Polymer-Drug Conjugates with Potential Treatment of Hematologic Malignancies and Solid Tumors. 18<sup>th</sup> International Symposium on Recent Advances in Drug Delivery Systems, Salt Lake City, Utah, February 22-24, 2022.

560. J. Li, C.-H. Yang, D.C. Radford, M.T. Gambles, S. Hu-Lieskovan, A. Welm, B. Welm, C.M. Peterson, J. Kopeček, J. Yang, Optimized Immunotherapy for Cancer Treatment: Polymer-Enhanced Combination of Immunogenic Chemotherapy and PD-L1 Degradation. 18<sup>th</sup> International Symposium on Recent Advances in Drug Delivery Systems, Salt Lake City, Utah, February 22-24, 2022.
561. M.T. Gambles, J. Li, D. Sborov, P. Shami, J. Yang, J. Kopeček, Simultaneous Crosslinking of CD20 and CD38 by Drug-Free Macromolecular Therapeutics Enhances B Cell Apoptosis In Vitro and In Vivo. Annual Meeting of the Controlled Release Society, Montreal, Canada, July 11-15, 2022.
562. M.T. Gambles, Y. Harraq, J. Yang, J. Kopeček, Obinutuzimab-Based Drug-Free Macromolecular Therapeutics Synergizes with DNA Synthesis Inhibitors. Undergraduate Research Conference, University of Utah, Salt Lake City, August 5, 2022.
563. A.D. Jensen, J. Yang, M.B. Monson, T.W. Blake, S. Minoshima, J. Kopeček, D.J. Cross, Treatment of Alzheimer's Disease Using Microtubule Stabilizing Drugs, Imaging Elevated Conference, Department of Radiology and Imaging Science, University of Utah, Salt Lake City, Utah, September 30 – October 1, 2022.
564. J. Arnold, J. Li, J. Yang, J. Kopeček, Multivalent DR5 Receptor Clustering Agonists for Treatment of Colon Cancer. Utah Conference on Undergraduate Research, University of Utah, February 17, 2023.
565. S. Li, A. Jensen, M. Monson, M.T. Gambles, J. Wang, R. Aljassimi, S. Minoshima, J. Kopeček, D.J. Cross, J. Yang, Targeted Paclitaxel Conjugate for the Treatment of Alzheimer Disease. Annual Meeting of the Controlled Release Society, Las Vegas, NV, July 24-28, 2023.
566. M.T. Gambles, J. Li, S. Li, J. Yang, J. Kopeček, Artificial T Cell Activation Strategy Incorporating Receptor Crosslinking. Annual Meeting of the Controlled Release Society, Las Vegas, NV, July 24-28, 2023.
567. J. Li, J. Arnold, M. Sima, M. Abbasi, J. Kopeček, J. Yang, Multivalent DR5 Receptor Clustering Agonists for Treatment of Colon Cancer. Annual Meeting of the Controlled Release Society, Las Vegas, NV, July 24-28, 2023.
568. J. Yang, J. Li, M.T. Gambles, D. Sborov, J. Kopeček, Development of Next Generation Antibody-Polymer-Drug Conjugates. Annual Meeting of the Controlled Release Society, Las Vegas, NV, July 24-28, 2023.
569. H.A. Faruque, J. Li, M. Cina, A. Young, S. Hu-Lieskovan, J. Kopeček, J. Yang, Nanomedicine Strategies for Heating Cold Tumors with Concurrent PD-L1 Attenuation. Annual Meeting of the Controlled Release Society, Las Vegas, NV, July 24-28, 2023.
570. D.J. Cross, S. Li, A. Jensen, M. Monson, M.T. Gambles, J. Wang, R. Aljassimi, S. Minoshima, J. Kopeček, J. Yang, Biodegradable Paclitaxel Conjugate for Alzheimer's Disease Treatment. Society for Neuroscience 2023 Meeting, Washington, D.C., November 11-15, 2023.
571. J. Yang, J. Kopeček, Polymer-Enhanced Chemo/Immuno Combinatory Therapy of Breast Cancer. 9<sup>th</sup> World Congress on Breast Cancer, San Diego, CA, November 6-7, 2023.
572. J. Li, M.T. Gambles, S. Li, J. Kopeček, D. Sborov, J. Yang, Development of Next Generation Antibody-Polymer-Drug Conjugates for Treatment of Multiple Myeloma. 65<sup>th</sup> ASH Annual Meeting and Exposition, San Diego, CA, December 9-12, 2023.

## **PLENARY/KEYNOTE/INVITED LECTURES (from 1993)**

### **1993**

2nd Conference on Frontiers of Polymers and Advanced Materials, Jakarta, Indonesia, January 10-15, 1993  
American Chemical Society Meeting, Denver, CO, April 1, 1993  
20th International Symposium on Controlled Delivery of Bioactive Materials, Washington. D.C., July 25-28, 1993  
American Chemical Society Fall 93 Meeting, Chicago, IL, August 23-26, 1993  
NATO Advanced Study Institute, Cape Sounion Beach, Greece (**2 lectures**), June 24–July 5, 1993  
Monte Verita Conference on Biocompatible Material Systems, Ascona, Switzerland, October 11-14, 1993  
Medtronic, March 23, 1993  
Attrix Laboratories

### **1994**

American Chemical Society Spring Meeting 1994, San Diego, CA, March 13-17, 1994  
3rd European Symposium on Controlled Drug Delivery, Noorwijk aan Zee, The Netherlands, April 6-8, 1994  
7th International Symposium on Polymer Analysis and Characterization, Les Diablerets, Switzerland, May 23-25, 1994  
21st International Symposium on Controlled Release of Bioactive Materials, Workshop on Oral Drug Delivery  
Nice, France, June 25-29, 1994  
35th IUPAC International Symposium on Macromolecules, Akron, OH, July 11-15, 1994  
Peking University, Department of Chemistry, Beijing, China, October 13, 1994  
National Institute for Family Planning, Beijing, China, October 14, 1994  
Wuhan International Symposium on Biomaterials and Fine Polymers, Wuhan, China, October 18-22, 1994  
International Symposium on Fiber Science and Technology, Yokohama, October 26-28, 1994  
5th International Polymer Conference, Osaka, Japan, November 28 - December 2, 1994  
Kyoto Institute of Technology, Kyoto, Japan, December 3, 1994

### **1995**

21st Annual Meeting of the Society of Biomaterials (Basic Science Award Lecture), San Francisco, CA, March 18-22, 1995  
5th Iketani Conference, Kagoshima, Japan, April 18-22, 1995  
2nd International Workshop on Supramolecular Chemistry in Biology and Medicine, Kyoto, Japan, April 24-25, 1995  
11th International Symposium on Affinity Chromatography and Biological Recognition, San Antonio, TX, May 25-31, 1995  
69th Colloid & Surface Science Symposium, Salt Lake City, Utah, June 11-14, 1995  
36th Prague Microsymposium on High-Swelling Gels, Prague, Czech Republic, July 10-14, 1995  
1st Spanish-Portuguese International Symposium on Controlled Drug Delivery, Santiago de Compostella, Spain, September 25-27, 1995  
Johns Hopkins University, Baltimore, Maryland



4th Pacific Polymer Conference, Koloa, Kauai, Hawaii, December 12-16, 1995

### **1996**

University of Marburg (German CRS Local Chapter meeting), Germany, April 26, 1996

Gore, Medical Division, Flagstaff, AZ, June 13, 1996

University of Tel Aviv (Israel CRS Local Chapter meeting), Israel, June 20, 1996

Huntsman Cancer Institute, Utah, June 26, 1996

23rd International Symposium on Controlled Release of Bioactive Materials, Kyoto, Japan, July 7-10, 1996

36th IUPAC International Symposium on Macromolecules, Seoul, Korea, August 4-9, 1996

Sam Yang Co., Taejon, Korea, August 12, 1996

CRS Conference on Advances in Controlled Delivery, Baltimore, MD, August 19-20, 1996

ACS Course on Bioconjugate Chemistry, Orlando, FL, August 23-24, 1996

3rd Jerusalem Conference on Pharmaceutical Sciences, Jerusalem, Israel, September 1-6, 1996

University of Michigan, College of Pharmacy, October 16, 1996

Japan - US Seminar on Macromolecular Architecture and Engineering, Sendai, Japan, October 27-31, 1996

3M, St. Paul, MN, November 22, 1996

### **1997**

Amgen, Thousand Oaks, California, April 10, 1997

ACS Course on Bioconjugate Chemistry, San Francisco, CA, April 11, 1997

2nd International Symposium on Polymer Therapeutics, Kumamoto, Japan, April 18-20, 1997

3M, St. Paul, MN, April 28, 1997

Emisphere, Cedar Knolls, NJ, May 12, 1997

24th International Symposium on Controlled Release of Bioactive Materials, Stockholm, Sweden, June 15-19, 1997

University of California San Francisco, College of Pharmacy, May 30, 1997

50th Meeting of the Czech Chemical Society, Zlín, Czech Republic, September 8-10, 1997

Institute of Petrochemical Synthesis, Russian Academy of Sciences, Moscow, Russia, September 30, 1997

Topical Conference on Biomaterials, Carriers for Drug Delivery and Scaffolds for Tissue Engineering, The American Institute of Chemical Engineers, Los Angeles, CA, November 17-19, 1997

### **1998**

Enzon, Inc., Piscataway, New Jersey, February 23, 1998

First Annual AAPS-SRDG Meeting on Advances in Pharmaceutical Sciences, The University of Mississippi, Oxford, Mississippi, May 28-29, 1998

3rd International Biorelated Polymer Symposium on Polymeric Drugs and Drug Delivery Systems, American Chemical Society Fall 1998 Meeting, Boston, MA, August 23-27, 1998

University Ghent, Ghent, Belgium, September 25, 1998

Graduate Course for Swiss Pharmaceutics Students, Zermatt, Switzerland, **2 lectures**, September 28-October 2, 1998

Ohio State University, College of Pharmacy, Columbus, Ohio, October 30, 1998

## **1999**

Brigham Young University, Department of Chemistry, January 19, 1999  
University of Washington, Center for Nanotechnology April 13, 1999  
University of Tokyo, Department of Material Science and Engineering June 8, 1999  
Sankyo Co., DDS Group, Tokyo, Japan June 8, 1999  
Forum for Pharmaceutical Technology Innovation, Tokyo, Japan, June 10, 1999  
Tokyo Women's Medical University, Institute of Biomedical Engineering, Tokyo, Japan, June 11, 1999  
Tokyo Institute of Technology, Tokyo, Japan, June 15, 1999  
26<sup>th</sup> Int. Symposium on Controlled Release of Bioactive Materials, Boston, June 20-23, 1999  
World Congress of Pharmaceutics and Pharmaceutical Sciences, Barcelona, September 5-9, 1999  
Biosurf III/Annual Meeting of the Swiss Biomaterials Society, Zurich, October 7-8, 1999  
GelTex, Boston, Massachusetts, November 12, 1999

## **2000**

University Paris-North, Villetaneuse, France, March 15, 2000  
Gordon Research Conference "Drug Carriers in Medicine and Biology", Ventura, CA, February 20-23, 2000  
Sixth European Symposium on Controlled Drug Delivery, Noordwijk aan Zee, The Netherlands, April 12-14, 2000,  
Millennial World Congress of Pharmaceutical Sciences, San Francisco, California, April 16-20, 2000  
Graduate Course for Danish Pharmaceutics Students (4 lectures), Copenhagen Denmark, May 9-11, 2000  
World Polymer Congress IUPAC MACRO 2000, Warsaw, Poland, July 9-14, 2000  
International Symposium on Biomaterials and Drug Delivery Systems, Shilla Cheju Hotel, Cheju Island, Korea, August 20-22, 2000  
Light Sciences, Seattle, WA, September 8, 2000  
International Symposium on Tumor Targeted Delivery Systems, National Cancer Institute, National Institutes of Health, Bethesda, MD, September 25-27, 2000

## **2001**

International Symposium "New Trends in Polymers for Oral and Parenteral Administration", APGI/GTRV/ EUFEPS Paris, March 12-13, 2001  
Graduate course for Danish Pharmaceutics Students (4 lectures), Copenhagen Denmark, May 2001  
4<sup>th</sup> International Meeting on the Frontiers in Biomedical Polymers, Williamsburg, Virginia, May 16-19, 2001  
28th International Symposium on Controlled Release of Bioactive Materials, San Diego, California, June 24-27, 2001  
American Association of Colleges of Pharmacy Meeting, Toronto, Canada, July 7-10, 2001  
Gordon Research Conference, Polymers (East), Colby Sawyer College, New Hampshire, July 8-13, 2001  
16th Ann. Meeting of the American Association of Pharmaceutical Scientists, Denver, CO, October 21-25, 2001  
Access Pharmaceuticals, Dallas, Texas, December 11, 2001

## **2002**

University of Maryland, Baltimore, March 21, 2002

University of Alabama at Huntsville, March 22, 2002

Cancer Institute of the University of California in San Diego, June 3, 2002

International Conference in Advances in Biomaterials for Reconstructive Medicine, in Capri, Italy, June 10-14, 2002

World Polymer Congress IUPAC MACRO 2002, Beijing, China, July 7-12, 2002

29th International Symposium on Controlled Release of Bioactive Materials, Seoul, Korea, July 21-25, 2002

11<sup>th</sup> International Pharmaceutical Technology Symposium "Intelligent Drug Delivery Systems", Istanbul, Turkey, September 9-11, 2002

American Chemical Society Conference "Future Directions in Drug Delivery Technologies", Boston, Massachusetts, October 13-16, 2002

Symposium on Gels, Genes, Grafts, and Giants, Maui, Hawaii, December 16-20, 2002

## **2003**

5<sup>th</sup> International Symposium on Innovations in Pharmaceutical Technology, Mumbai, India, February 2003  
(2 invited lectures)

Enzon Pharmaceuticals, Piscataway, NJ, March 27, 2003

37<sup>th</sup> Gatefossé Meeting on Challenge in Drug Delivery for the New Millennium, Saint Remy de Provence, France, June 12-14, 2003

6<sup>th</sup> World Congress on Inflammation, Vancouver, B.C., Canada, August 2-6, 2003

24<sup>th</sup> Annual Congress of the Academy of Pharmaceutical Sciences, Durban, South Africa, September 7-10, 2003 (2 invited lectures)

1<sup>st</sup> EUFEPS Conference on Optimizing Drug Delivery and Formulation: New Challenges in Drug Delivery, Versailles, France, September 29 – October 1, 2003

## **2004**

6<sup>th</sup> International Symposium on Polymer Therapeutics: From Laboratory to Clinical Practice Welsh School of Pharmacy, Cardiff University, United Kingdom, January 7-9, 2004

University of Illinois, Chicago, Department of Pharmaceutical Sciences, February 4, 2004

Sarcoma Symposium, Huntsman Cancer Institute, University of Utah, February 6, 2004

Workshop on Advances in Pharmaceutical Technology, Mahidol University, Bangkok, Thailand, February 23-24, 2004

Chiang-Mai University, College of Pharmacy, Thailand, February 26, 2004

Texas A&M University, Department of Chemistry, April 15, 2004

University of California Los Angeles, Department of Pharmacology, May 5, 2004

Globalization of Pharmaceutical Education Meeting, Kyoto, Japan, May 26-28, 2004

Meeting to Celebrate 50 years of Polymer Science and Education in China, Peking University, Beijing, China, May 28 – June 1, 2004

Delivery and Biomedical Applications Workshop, Controlled Release Society, Honolulu, HI, June 12, 2004  
MACRO 2004 – 40<sup>th</sup> IUPAC World Polymer Congress, Paris, France, July 4-9, 2004  
Joint Meeting of the Pharmaceutical Societies of Germany, Austria, and the Czech Republic, Regensburg, Germany, October 6-9, 2004 (Plenary lecture)  
University of Utrecht, College of Pharmacy, Utrecht, The Netherlands, October 11, 2004  
University of Pennsylvania, Institute for Medicine and Engineering, November 2, 2004

## **2005**

Tulane University, Department of Chemical Engineering, April 8, 2005  
Johns Hopkins University, Department of Materials Science and Engineering, April 13, 2005  
Huntsman Cancer Institute, University of Utah, April 27, 2005  
College of Pharmacy, University of Brno, Czech Republic, May 17, 2005  
Gordon Conference, “Chemistry of Supramolecules and Assemblies”, Colby College, Waterville, ME, June 12-17, 2005  
44<sup>th</sup> Microsymposium on Macromolecules “Polymer Gels and Networks”, Institute of Macromolecular Chemistry, Prague, Czech Republic, July 10-14, 2005  
3<sup>rd</sup> International Nanomedicine and Drug Delivery Symposium, University of Maryland, Baltimore, MD, September 26-27, 2005  
2005 Annual Meeting of the American Association of Pharmaceutical Scientists, Nashville, Tennessee, November 6-10, 2005  
Pacific Polymer Federation 9 (PPF9) Meeting, Maui, Hawaii, December 6-10, 2005

## **2006**

Cedars-Sinai Medical Center, Los Angeles, CA, January 16, 2006  
University of Helsinki, Finland, Graduate Course “Nanotechnology in Drug Research and Development” (**2 invited lectures**), February 6-7, 2006  
40<sup>th</sup> Annual Scientific Meeting of the European Society for Clinical Investigation, Prague, March 15-18, 2006  
Duke University, Department of Bioengineering, April 6, 2006  
3<sup>rd</sup> Conference on Foundation of Nanoscience (FNANO06): Self-Assembled Architectures and Devices, Snowbird, Utah, April 23-27, 2006  
University of Kansas, College of Pharmacy, April 25, 2006  
University of Toronto, College of Pharmacy, May 5, 2006  
University of Wisconsin, College of Pharmacy (**2 Busse Lectures**), May 18-19, 2006  
25<sup>th</sup> Annual Meeting of the Canadian Biomaterials Society, Calgary, Alberta, May 26-28, 2006  
Georgia Institute of Technology, Department of Materials Science and Engineering, September 26, 2006  
University of Delaware, Department of Chemistry, October 4, 2006  
Brooklyn Polytechnic University, New York, NY, Distinguished Morawetz Lecture, October 27, 2006  
28<sup>th</sup> Annual Meeting of Japanese Society for Biomaterials, Tokyo, Japan, November 27-28,

2006

Setsunan University, College of Pharmacy, Osaka, November 28, 2006

Sankyo Co., Tokyo, November 29, 2006

Tokyo Women's Medical University, November 30, 2006

Drug Delivery and Translational Research Symposium, Polytechnic University, Brooklyn, NY,  
December 4-5, 2006

Biomaterials from 2D to 3D to "Larger than Life" Symposium, Sheraton, Maui, December 14-17, 2006

**2007**

International Symposium on Polymer Therapeutics ISPT-07, Berlin, Germany, February 19-21, 2007

University of Wyoming, Department of Chemical Engineering, Laramie, WY, March 30, 2007

Wayne University, College of Pharmacy, Detroit, MI, April 4, 2007

University of North Carolina, College of Pharmacy, Chapel Hill, NC, April 11, 2007

GlaxoSmithKline, Research Triangle Park, NC, April 12, 2007

Pharmaceutical Sciences World Congress, Amsterdam, The Netherlands, April 22-25, 2007

5<sup>th</sup> International Workshop on Drug Delivery Systems, Třešt', Czech Republic, May 15-18, 2007

10<sup>th</sup> International Symposium on Pharmaceutical Sciences, Montreal, Quebec, Canada, May 30  
– June 2, 2007

British Pharmaceutical Conference, Manchester, UK, September 10-12, 2007

Tsinghua University, Department of Chemical Engineering, Beijing, China, October 15, 2007

West China School of Pharmacy, Sichuan University, Chengdu, China, October 17, 2007

National Engineering Research Center for Biomaterials, Chengdu, China, October 18, 2007

2<sup>nd</sup> International Symposium on Stimuli-Responsive Materials, The University of Southern  
Mississippi, Hattiesburg, MS, October 30 – November 1, 2007

**2008**

American Chemical Society 235<sup>th</sup> National Meeting, New Orleans, LA, April 6-10, 2008

International Advanced Drug Delivery Symposium, Tsinghua University, Taiwan, April 27 – May  
2, 2008

Enzon Pharmaceuticals, Piscataway, NJ, May 12, 2008

2<sup>nd</sup> LTS Academy Meeting "Unmet Needs in Parenteral Drug Delivery", West Caldwell, NJ, May  
15-16, 2008

International Workshop on Biomacromolecules, Royal Institute of Technology, Stockholm,  
Sweden, June 1-4, 2008

International Materials Research Conference IMRC 2008, Chongqing, China, June 9-12, 2008

Symposium on Cellular Delivery of Therapeutic Macromolecules, Cardiff University, UK, June  
23-25, 2008

Enzon, Piscataway, NJ, September 17, 2008

Utah Nano 2008, October 17, 2008

3<sup>th</sup> International Symposium on Stimuli-Responsive Materials, The University of Southern  
Mississippi, Hattiesburg, MS, October 28-29, 2008

Department of Obstetrics and Gynecology Grand Rounds, November 19, 2008  
University of Geneva, School of Pharmacy, Geneva, Switzerland, December 7, 2008

## **2009**

University of Illinois at Urbana-Champaign, March 4, 2009  
Tokyo Women's Medical University, Tokyo, Japan, May 18, 2009  
8th International Symposium on Frontiers in Biomedical Polymers, Mishima, Japan, May 20-23, 2009  
Inaugural CIMA lecture, University of Minnesota, May 29, 2009  
Nanomaterials and Nanotechnologies in Living Systems, Zarya Center near Moscow, Russia,  
June 29-July 4, 2009  
34<sup>th</sup> FEBS Congress, Prague, Czech Republic, July 4-9, 2009  
36<sup>th</sup> Annual Meeting of the Controlled Release Society, Copenhagen, Denmark, July 18-22,  
2009  
238<sup>th</sup> American Chemical Society National Meeting, Washington, D.C., August 16-20, 2009  
4<sup>th</sup> International Pharmaceutics Symposium, Shanghai, China, September 24-26, 2009  
4th International Symposium on Stimuli-Responsive Materials, The University of Southern  
Mississippi, Hattiesburg, MS, October 27-28, 2009  
Moving Targets Symposium, Los Angeles, California, November 7, 2009

## **2010**

Symposium on Biomedical Polymers for Drug Delivery, Salt Lake City, Utah, March 26-27, 2010  
Seoul National University, Seoul, Korea, June 16, 2010  
Hanyang University, Seoul, Korea, June 16, 2010  
Korea Advanced Institute of Science and Technology, Daejeon, Korea, June 17, 2010  
The 4<sup>th</sup> Inha Nano-Clinic Symposium. Inha University, Incheon, Korea, June 18, 2010  
Gordon Research Conference on Drug Carriers in Medicine and Biology, Waterville Valley, NH,  
August 15-20, 2010  
Symposium on Bioinspired Systems for Drug, Gene, and Protein Delivery, Chengdu, China,  
September 6-9, 2010  
Zhejiang University, Hangzhou, China, September 13, 2010  
Symposium on Innovative Polymers for Controlled Delivery, Suzhou University, Suzhou, China,  
September 14-17, 2010  
7<sup>th</sup> Annual Meeting of the Israeli Chapter of the Controlled Release Society, Haifa, Israel,  
October 3-4, 2010 (Opening Keynote)  
Ben Gurion University, Beer-Sheva, Israel, October 6, 2010  
5th International Symposium on Stimuli-Responsive Materials, The University of Southern Mississippi,  
Hattiesburg, MS, October 26-27, 2010  
L.S. Skaggs 2010 Biomedical Research Symposium, San Diego, California, November 10-12, 2010  
National Cancer Institute, Frederick, Maryland, November 18, 2011  
Pacifichem 2010, Honolulu, Hawaii, December 15-20, 2010 (**2 invited lectures**)

## **2011**

15<sup>th</sup> International Symposium on Recent Advances in Drug Delivery Systems, Salt Lake City, Utah, February 13-16, 2011

Nanomedicine and Drug Delivery Research Conference, Cedars-Sinai Medical Center, Los Angeles, California, March 4-5, 2011

Spring 2011 American Chemical Society Meeting, Anaheim, California, March 27-31, 2011

Department of Bioengineering, Clemson University, April 5, 2011

2<sup>nd</sup> Russian-Hellenic Symposium "Biomaterials and Bionanomaterials: Recent Advances and Safety-Toxicology Issues", Heraklion, Crete, Greece, May 8-12, 2011

College of Pharmacy, University of Tennessee, Memphis, TN, May 23, 2011

Meeting of the University of Nebraska COBRE Program, Lied Lodge, Nebraska City, Nebraska, June 1, 2011

27<sup>th</sup> Meeting of the Japan Society of Drug Delivery Systems. Tokyo, June 9-10, 2011

NittoDenko, Oceanside, CA, June 22, 2011

Student Chapter of the Controlled Release Society, University of Illinois, Chicago, August 12, 2011

Advanced Technologies and Regenerative Medicine (ATRM), Sommerville, NJ, August 25, 2011

NittoDenko, Oceanside, CA, September 13, 2011

20<sup>th</sup> Helsinki Drug Research Congress, Helsinki, Finland, September 18-20, 2011

6<sup>th</sup> International Symposium on Stimuli-Responsive Materials, The University of Southern Mississippi, Hattiesburg, MS, October 23-26, 2011

## **2012**

6<sup>th</sup> International Symposium on Intelligent Drug Delivery Systems, The Shilla Hotel, Seoul, Korea, March 14-16, 2012

Xiangshan Science Conference No. 425 on Frontiers of Smart Polymeric Biomaterials and Their Application, The Fragrant Hill Hotel, Beijing, China, May 28-30, 2012 (**Opening Plenary**)

Nankai University, Tianjian, China, May 31, 2012

International Workshop on Nanomedicine 2012, Department of Biomedical Engineering, Tsinghua University, Beijing, June 6, 2012

76<sup>th</sup> Prague Meeting on Macromolecules, Polymers in Medicine 2012, Institute of Macromolecular Chemistry, Prague, Czech Republic, July 1-5, 2012 (**Honorary Chair of Symposium + Invited Speaker**)

39<sup>th</sup> Annual Meeting of the Controlled Release Society, Québec City, Canada, July 15-18, 2012

The 4<sup>th</sup> International NanoBio Conference, Seattle, Washington, July 23-26, 2012

Case Western University, Department of Bioengineering, September 13

8<sup>th</sup> International Symposium on Stimuli-Responsive Materials, Santa Rosa, California, October 21-23, 2012 (**Opening Plenary**)

University of Helsinki, College of Pharmacy, November 11, 2012

Workshop of the Research Program on Programmable Materials, Finish Academy of Sciences, Helsinki, Finland, November 13, 2012 (**Opening Keynote**)

Institute of Microbiology, Academy of Sciences of the Czech Republic, Prague, November 15, 2012

10<sup>th</sup> International Drug Delivery Symposium (NanoDDS'12), Atlantic City, New Jersey,

December 6-7, 2012 (**Opening Plenary**)

Innovations in Polymers and (bio)Materials. A Symposium on the Future of Biomaterials, Hyatt Regency Hotel, Ka'anapali Beach, Maui, Hawaii, December 14-17, 2012

### **2013**

2<sup>nd</sup> Nanomedicine for Imaging and Treatment Conference, Cedars-Sinai Medical Center, Los Angeles, March 15-16, 2013

2<sup>nd</sup> International Conference on Biomaterial Science (ICBS2013), Tsukuba, Japan, March 20-22, 2013

XIX. General Meeting of the Learned Society (Academy) of the Czech Republic, Prague, Carolinum, May 20, 2013

Joint Symposium of the 5<sup>th</sup> Utah-Inha DDS & Advanced Therapeutic Research Center Symposium and the 7<sup>th</sup> International Symposium on Intelligent DDS, Sheraton Incheon Hotel, Incheon, Korea, May 23-24, 2013

15<sup>th</sup> IUPAC International Symposium Macromolecular Complexes (MMC-15) Hyatt Regency Greenville, South Carolina, August 13-16, 2013

246<sup>th</sup> American Chemical Society National Meeting, Indianapolis, Indiana, September 8-12, 2013

ACS Workshop "Polymers in Medicine and Biology", Santa Rosa, Sonoma Valley, California, October 9-12, 2013

Meeting to Celebrate 100<sup>th</sup> Anniversary of Professor Wichterle's Birth, Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Prague, October 24, 2013

Third Sino-German Symposium "Nanomaterials for Biomedical Applications", Hangzhou, China, October 28-31, 2013

### **2014**

University of Miami, College of Engineering Distinguished Speaker Series, March 3, 2014

247<sup>th</sup> American Chemical Society National Meeting, Dallas, Texas, March 16-20, 2014

Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Prague, May 29, 2014

East China Normal University, Shanghai, September 15, 2014

3<sup>rd</sup> Symposium on Innovative Polymers for Controlled Delivery (SIPCD 2014), Suzhou, China, September 16-19, 2014

Chinese Pharmaceuticals Conference, Changsha, China, September 19-22, 2014

Peking University, Department of Polymer Science, Beijing, China, September 23, 2014

10<sup>th</sup> International Symposium on Stimuli-Responsive Materials, Santa Rosa, California, October 26-28, 2014

### **2015**

International Symposium on Translational Medicine, Sun Yat-Sen University, Guangzhou, China, January 8-10, 2016

3<sup>rd</sup> Nanomedicine for Imaging and Treatment Conference, Cedar-Sinai Medical Center, Los Angeles, CA, March 13-14, 2015

11<sup>th</sup> International Symposium on Stimuli-Responsive Materials, Santa Rosa, California, October 25-27, 2015

Department of Biomedical Engineering, Columbia University, New York, November 6, 2015

Department of Chemical and Biological Engineering, Iowa State University, Ames, Iowa, November 19, 2015

Pacificchem 2015, Honolulu, Hawaii, December 15-20, 2015



## **2016**

251<sup>st</sup> American Chemical Society National Meeting, San Diego, California, March 13-17, 2016

14<sup>th</sup> Annual Nanomedicine and Drug Delivery Symposium, NanoDDS'16, Johns Hopkins University, Baltimore, MD, September 16-18, 2016

3<sup>rd</sup> International Conference on Biomaterials Science, Tokyo, Japan, November 28-30, 2016

Setsunan University, Department of Pharmaceutical Sciences, Osaka, Japan, December 2, 2016

## **2017**

Snowbird Meeting of Kopeček Lab Alumni, February 17, 2017

Hainan Medical University, Haikou, Hainan, China May 18, 2017

3<sup>rd</sup> Symposium on Nanomedicine & MRI Applications, West China Hospital, Chengdu, Sichuan, China, May 23, 2017

China Pharmaceutical University, Nanjing, China, May 26, 2017

5<sup>th</sup> International Symposium on Smart Biomaterials, University of Shanghai, China, October 18-20, 2017.

Polymer Therapeutics for Cancer Treatment, Institute of Microbiology, Academy of Sciences of the Czech Republic, Prague, November 7, 2017.

## **2018**

Translational Genomics Research Institute (TGen), Phoenix, AZ, March 2, 2018

Harvard University Topics in Bioengineering Seminar Series, April 3, 2018

TechConnect World Innovation Symposium, Anaheim, California, May 13-16, 2018

Daichi-Sankyo Co., Tokyo, Japan, May 28, 2018

Tokyo Institute of Technology, Tokyo, Japan, May 29, 2018

Astellas Pharma, Yaizu City, Japan, May 30, 2018

Award Lecture, Meeting of the Japanese Academy of Science and Technology, Shizuoka City, Japan, June 1, 2018

University of Tokushima, Japan, June 4, 2018

Kyushu University, Fukuoka, Japan, June 6, 2018

Workshop "Future Trends in Biomaterials" hosted by the Korean Academy of Science and Technology, Salt Lake City, UT, June 17-19, 2018

Nanotech & Nanobiotechnology Conference, Paris, France, July 12-13, 2018

Gordon Research Conference "Drug Carriers in Medicine and Biology", Mount Snow, VT, August 12-17, 2018

1<sup>st</sup> Consortium Meeting on Clinical Application of LNA-mRNA Vaccine Technology, Japan Agency for Medical Research and Development, Tokyo, Japan, September 7, 2018

Functional Polymers for Human Health Meeting, The Hebrew University of Jerusalem, Israel, October 28-30, 2018

## **2019**

University of Southern California, Los Angeles, CA, January 25, 2019

West China Hospital, Sichuan University, Chengdu, China, April 25, 2019

West China College of Pharmacy, Sichuan University, Chengdu, China, April 30, 2019

83<sup>rd</sup> Prague Meeting on Macromolecules, Polymers in Medicine 2019, Institute of Macromolecular Chemistry, Prague, Czech Republic, June 23-27, 2019

2019 Fall American Chemical Society Meeting, San Diego, California, August 25-29, 2019.

Pharmaceutical Technology Innovations Meeting, Ritsumeikan University, Kyoto, Japan, November 5, 2019.

International Conference on Colloid and Surface Science "Okinawa Colloids 2019", The Busena Terrace, Okinawa, Japan, November 3-8, 2019.

## **2020**

International Symposium on Biomedical Materials for Drug/Gene Delivery, Salt Lake City, Utah, February 7-8, 2020

## **2021**

2<sup>nd</sup> Biomedical Engineering & Instrumentation Summit (BEIS-2021), April 19-21, 2021 Virtual (Boston, MA).

## **2022**

18<sup>th</sup> International Symposium on Recent Advances in Drug Delivery Systems, Salt Lake City, Utah, February 22-24, 2022.

December 2023