CURRICULUM VITAE

Clyde M. Ofner III, Ph.D., R.Ph. Saint Joseph's University (SJU)

University City Campus Philadelphia College of Pharmacy (PCP) Department of Pharmaceutical Sciences 730 South Forty-third Street Philadelphia, PA 19104-4495 TEL: 215-596-8881, Email: cofneriii@sju.edu, FAX: 215-895-1161 **EDUCATION** Ph.D. Pharmaceutics 1987 Temple University School of Pharmacy Philadelphia, PA Registered Pharmacist, PA 1975 1975 B.S. Pharmacy Temple University School of Pharmacy Philadelphia, PA Pre-professional (engineering major) 1970 - 1972 University of Illinois Champaign-Urbana, IL **POSITIONS Professor of Pharmaceutics** 2010 - date AND Saint Joseph's University **EMPLOYMENT** Philadelphia College of Pharmacy **Director, Graduate Program in Pharmaceutics** 2002 - 2011USciences, College of Graduate Studies **Associate Professor of Pharmaceutics** 1993-2010 USciences, Philadelphia College of Pharmacy **Visiting Academic** 1992 PMA Coordinated on Site Industry Program for Pharmacy Faculty To gain an overview of operations and policies. **Graduate Faculty** 1989 - 2022 University of the Sciences in Philadelphia **Assistant Professor of Pharmaceutics** 1987 - 1993 Philadelphia College of Pharmacy and Science

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	Adjunct Clinical Instructor Temple University School of Pharmacy	1983	- 1987
ADVISORY GROUPS, STUDY SECTIONS	Review Editor, Frontiers in Pharmacology Experimental Pharmacology and Drug Discovery		2023-
	(BTT) program, Wistar Institute Advisory Committee, Biomedical Technician Training		2014-
	SBIR/STTR Study Section – Small Business: Biological Chemistry Biophysics and Drug Discovery applications, National Institute of Heat Center for Scientific Review, ZRG1 IMST (11), Stage 1 Reviewer, February, May, October.	alth,	2012
	Advisory Committee for the Investigative Drug Service (IDS) of the Institute for Translational Medicine and Therapeutics (ITMAT), University of Pennsylvania		2010-
	SBIR/STTR Study Section – Drug Discovery and Development Small Business Panel, National Institute of Health, Center for Scientific Rev Special Emphasis Panel, ZRG1 IMST-G(11), October	view	2009
	Gelatin Capsule Working Group, Food and Drug Administration, Center for Drug Evaluation and Research, Office of Clinical Pharmacology and Biopharmaceutics	199	5-1998
	Ad hoc consultant for Food and Drug Administration, Scientific Support Branch, Rockville, MD and Philadelphia, PA Regional Office.		1992
	Officer, Philadelphia Pharmaceutical Forum, American Association of Pharmaceutical Scientists (AAPS)	198	8-2013
AWARDS AND RECOGNITIONS	Philadelphia College of Pharmacy Research Award	2020,	2024
	Philadelphia College of Pharmacy – Dean's Award for Excellence in Service for Excellence in Teaching for Excellence in Research/Scholarly Activity		2023 2020 2013
	Milton Lev Memorial Faculty Research Fund (USciences)	2019,	2022
	P1 PharmD Program Course Module of the Year, RX 340, Coordinator		2020

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	Agnes Varis Trust for Leadership and Women's Health for a Graduate student	2020
	United States Patent and Trademark Office, Patent	2019
	USciences Founders Day Faculty Award of Merit	2016
	Agnes Varis Trust Research Award for Women's Leadership and Health (USciences)	2015
	Nominated, Lindback Award for distinguished teaching	2008
	PCP/American Association of Colleges of Pharmacy Teacher of the Year	2004
	Nominated, USP Outstanding Faculty Award	2001
	American Foundation for Pharmaceutical Education (AFPE) Fellowship for a Graduate Student	1999,2003
	Food and Drug Administration's Commissioner's Special Citation for sustained outstanding regulatory research efforts	1998
	USP OWL Award for Innovations with Learning	1998
	Pharmaceutical Manufacturer's Association (PMA) Fellowship for Undergraduate Student	1990, 1994
PATENTS	A High Molecular Weight Biodegradable Gelatin-Doxorubicin Conjuctly Clyde M Ofner III, Chris Cammarata, Brian Rhodes, Darren Wu, - United States Patent No. 10,265,413 on April 23, 2019 - European Patent No. EP 3215116 on September 30, 2020 - Canadian Patent No. 2,966,598 on January 2, 2024	igate,
CURRENT RESEARCH INTERESTS	Lysosome size changes, lysosome membrane permeabilization applications in triple negative breast cancer (TNBC). Tumor cell de of anti-cancer/natural polymer conjugates, Doxorubicin me cytotoxicity.	elivery echanisms of

PRESENTATIONS Invited Lectures

1. <u>C.M. Ofner III</u>, Shifts in the Apparent Ionization Constant of the Carboxylic Acid Groups of Gelatin, Philadelphia College of Pharmacy and Science, Department of Pharmaceutics, Philadelphia, PA, September 16, 1987.

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2. <u>C.M. Ofner III</u>, Studies on Gelatin Interactions, Merrell Dow Research Institute, Indianapolis, IN, April 6, 1990.

- 3. <u>C.M. Ofner III</u>, New Drug Delivery Systems: Protein Matrices, Temple University School of Pharmacy, Philadelphia, PA, October 21, 1991
- 4. <u>C.M. Ofner III</u>, Factors Affecting the Crosslinking of Gelatin, Chase Pharmaceutical Co., Newark, NJ, May 5, 1992.
- 5. <u>C.M. Ofner III</u>, Evaluation of the Condensation Mechanism of Heat Crosslinking in A Proteinaceous Delivery Matrix, Temple University School of Pharmacy, Philadelphia, PA, October 19, 1992.
- 6. <u>C.M. Ofner III</u>, Preliminary Results on Methotrexate/Gelatin Conjugate Microspheres, Temple University School of Pharmacy, Philadelphia, PA, April 1, 1994.
- 7. <u>C.M. Ofner II</u>I, The role of Epsilon-Amino Groups in Crosslinking During Heat Dehydration of Gelatin and Collagen, Temple University School of Pharmacy, September, 30, 1994.
- 8. W.A. Bubnis, S.D. Stockl, and <u>C.M. Ofner II</u>I, High Temperature Studies on Gelatin and Collagen: Determining the Presence and Extent of Amino Group Participation in Covalent Crosslinks, Focus Group Podium Session on "Gelatin and Gelatin Capsules", American Association of Pharmaceutical Scientists (AAPS), San Diego, CA, November 8, 1994, #PT-6065.
- 9. <u>C.M. Ofner III</u>, Technical Summary: Taste Masking in Pharmaceuticals, FMC Corporation, New Brunswick, NJ, May 16, 1995.
- 10. <u>C.M. Ofner III</u>, Macromolecular Chemistry of Gelatin: Background, Crosslinking, and Characterization, Whitehall-Robins, Hammonton, NJ, May 17, 1995.
- 11. <u>C.M. Ofner III</u>, Gelatin Crosslinking: Background and Characterization, Food and Drug Administration, Gelatin Capsule Working Group, Rockville, MD, May 23, 1995.
- 12. <u>C.M. Ofner III</u>, Preliminary Results on Dissolution of Crosslinked Hard Gelatin Capsules, Food and Drug Administration, Center for Drug Evaluation and Research, Office of Clinical Pharmacology and Biopharmaceutics, Gelatin Capsule Working Group, Rockville, MD, June 12, 1996.
- 13. <u>C.M. Ofner III</u>, Evaluation of Gelatin Capsule Crosslinking using Gelatin Dissolution and Chemical Assay, Food and Drug Administration, Center for Drug Evaluation and Research, Office of Clinical Pharmacology and Biopharmaceutics, Gelatin Capsule Working Group, Rockville, MD, December 18, 1996.
- 14. <u>C.M. Ofner III</u>, Technical Summary of Poor In Vitro Dissolution of Gelatin Capsule and Coated Tablet Products Associated with Gelatin Crosslinking, McNeil Consumer Products, Fort Washington, PA, February 28, 1997.

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15. <u>C.M. Ofner III</u>, Gelatin Crosslinking, Stress, and Dissolution of Crosslinked Hard and Soft Gelatin Capsules – Summary, Food and Drug Administration, Center for Drug Evaluation and Research, office of clinical Pharmacology and Biopharmaceutics, Gelatin Capsule Working Group, Rockville, MD, October, 15, 1997.

- 16. <u>C.M. Ofner III</u>, Gelatin Crosslinking, Stress, and Dissolution of Crosslinked Hard and Soft Gelatin Capsules, in Hard and Soft Gelatin Capsules: Issues, Research and Outcome (invited podium), AAPS Annual Meeting, Boston, MA, November 5, 1997.
- 17. <u>C.M. Ofner III</u>, Thermodynamics of Colloids in Solution, Temple University School of Pharmacy, Philadelphia, PA, December 4, 1997.
- 18. <u>C.M. Ofner III</u>, Use of the Second Virial Coefficient in Models of Macromolecules in Solution, Temple University School of Pharmacy, Philadelphia, PA, December 11, 1997.
- 19. <u>C.M. Ofner III</u>, Poor Dissolution of Hard Gelatin Capsule Products: A Potential for Reduced Bioavailability? Philadelphia Pharmaceutical Forum (PPF), Frazer, PA, January 8, 1998.
- 20. <u>C.M. Ofner III</u>, Crosslinking and Dissolution of Gelatin Capsule Products, Whitehall-Robins, Richmond, VA, August, 1998.
- 21. <u>C.M. Ofner III</u>, Drug Delivery with Gelatin: A Methotrexate Anti-Cancer Conjugate, Research Discussion Group, University of the Sciences in Philadelphia, 10/21/99.
- 22. <u>C.M. Ofner III</u>, Methotrexate/Gelatin Conjugate Uptake in HL60 Leukemia Cells, USP Faculty Research Discussion Group, September 24, 2001.
- 23. <u>C.M. Ofner III</u>, Soluble Macromolecular Conjugates for Passive Tumor Targeting, Philadelphia Pharmaceutical Forum, North Wales, PA, January 11, 2007.
- 24. <u>C.M. Ofner III</u>, C.S. Chen, K. Pica, Macromolecular Conjugates for Passive Tumor Targeting: *In Vitro* Studies with a Gelatin-Methotrexate Conjugate, EHRLICH II-2nd World Conference on Magic Bullets, Nurnberg, Germany, October 4, 2008.
- 25. <u>C.M. Ofner III</u>, Research Update on a Gelatin-Doxorubicin Conjugate Designed for Anti-Tumor Treatment, USciences Research Day, Philadelphia, PA, April 14, 2011.
- 26. <u>C.M. Ofner III</u>, Does the Widely Used Protein Carbodiimide Reagent EDC Induce Gelatin Degradation? USciences Department of Pharmaceutical Sciences, Philadelphia, PA, October 10, 2014.
- 27. <u>C.M. Ofner III</u>, Intracellular Delivery of Doxorubicin from a Biodegradable Conjugate Designed for Localized Treatment of Breast Cancer with Minimal Systemic Toxicities, Philadelphia College of Pharmacy Research Symposium, June 1, 2016.

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28. <u>C.M. Ofner III</u>, Intracellular Trafficking of a Targeted Doxorubicin Delivery System in Breast Cancer Cells, Philadelphia College of Pharmacy Research Symposium, Philadelphia, PA, August 31, 2017.

- 29. <u>C.M. Ofner III, M. Alvi, R. Nicoletto, B. Eshmawi, Lysosome Membrane Permeabilization</u> (LMP) and Cytotoxicity by a Gelatin-Doxorubicin Conjugate in Breast Cancer Cells, Polymers in Life Sciences Conference and Workshop, USciences, Philadelphia, PA, May 15, 2019.
- 30. <u>C.M.Ofner III</u>, Natural Polymer Conjugates for Cellular and Tumor Delivery, American Association of Pharmaceutical Scientists (AAPS) annual meeting, Philadelphia, October 19, 2021.

PUBLICATIONS Journal Articles (Peer Reviewed)

- 1. H. Schott and C.M. Ofner, Gelled Vegetable Oils as Ointment Bases, <u>Drug and Cosmetic</u> Ind., 117: 42-48 (1975).
- 2. C.M. Ofner III and H. Schott, Shifts in Apparent Ionization Constant of Carboxylic Acid Groups of Gelatin, <u>J. Pharm. Sci.</u>, 74: 1317-1321 (1985).
- 3. C.M. Ofner III and H. Schott, Swelling Studies of Gelatin I: Gelatin Without Additives, <u>J. Pharm. Sci.</u>, 75: 790-796 (1986).
- 4. C.M. Ofner III and H. Schott, Swelling Studies of Gelatin II: Effect of Additives, <u>J. Pharm. Sci.</u>, 76: 715-723 (1987).
- 5. M.M. Welz and C.M. Ofner III, Examination of Self-Crosslinked Gelatin as a Hydrogel for Controlled Release Systems, <u>J. Pharm. Sci.</u>, 81: 85-90 (1992).
- 6. W.A. Bubnis and C.M. Ofner III, The Determination of ε-Amino Groups in Soluble and Poorly Soluble Proteinaceous Materials by a Spectrophotometric Method Using Trinitrobenzenesulfonic Acid, <u>Anal. Biochem.</u>, 207: 129-133 (1992)
- 7. F.J. Nowaczyk Jr., R.L. Schnaare, C.M. Ofner III, R.J. Wigent, A Spectrophotometric Modification of the Winkler Method for Measurement of Dissolved Oxygen, <u>Pharm. Res.</u>, 10: 305-308 (1993).
- 8. F.J. Nowaczyk, R.L. Schnaare, R. Wigent, C.M. Ofner III, E. Sugita, Charge Transfer Complexes of Iodine and Nonionic Surfactants: Interpretation and Use in the Winkler Reaction, J. Pharm. Biomed. Anal., 11: 835-842 (1993).
- 9. C.M. Ofner III and W.A. Bubnis, Chemical and Swelling Evaluations of Amino Group Crosslinking in Gelatin and Modified Gelatin Matrices, <u>Pharm. Res.</u>, 13: 1821-1827 (1996).

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10. R.G. Huang, J.B. Schwartz, C.M. Ofner III, Microencapsulation of Chlorpheniramine Maleate-Resin Particles with Crosslinked Chitosan for Sustained Release, Pharm. Dev. <u>Tech.</u>, 4: 107-115 (1999)

- 11. B.J. Bowman and C.M. Ofner III, Characterization and In Vitro Methotrexate Release from Methotrexate/Gelatin Conjugates of Opposite Conjugate Bond Polarities, <u>Pharm. Res.</u>, 17(10):1309-1315 (2000).
- 12. Kosasih, B.J. Bowman, R.J. Wigent, C.M. Ofner III, Characterization and In Vitro Methotrexate Release from Gelatin/Methotrexate formed Using Different Preparation Variables, Int. J. Pharm., 204:81-89 (2000).
- 13. C.M. Ofner III, Y.E. Zhang, V.C. Jobeck, B.J. Bowman, Crosslinking Studies in Gelatin Capsules Treated with Formaldehyde and in Capsules Exposed to Elevated Temperature and Humidity, <u>J. Pharm. Sci.</u>, 90(1):79-87 (2001).
- 14. J.W. Mwangi and CM Ofner III, Crosslinked Gelatin Matrices: Release of a Random Coil Macromolecular Solute, Int. J. Pharm. 278:319-327 (2004)
- 15. C.M. Ofner III, K. Pica, B.J. Bowman, C.S Chen, Growth Inhibition, Degradation, and Methotrexate Release Studies of Gelatin/Methotrexate Conjugates, Int.J.Pharm., 308: 90-99 (2006)
- 16. K. Pica, R. Tchao, and C.M. Ofner III, Gelatin-Methotrexate conjugate Microspheres As a Potential Drug Delivery System, <u>J. Pharm. Sci.</u>, 95(9): 1896-1908 (2006).
- 17. C.S. Chen and C.M. Ofner III, The Effect of Charge, Drug Load, and Molecular Weight of Gelatin-Methotrexate Conjugates on Cytoxicity in HL60 Leukemia Cells, <u>Pharm. Res.</u>, 26:338-345 (2009).
- 18. B. Shank and C.M. Ofner III, Determination of the Stability of Pergolide Mesylate Oral Liquid at Room Temperature, <u>Int. J. Pharm. Comp.</u>, 13(3):254-258 (2009).
- 19. B. Shank and C.M. Ofner III, Multi-Temperature Stability and Degradation Characteristics of Pergolide Mesylate Oral Liquid, <u>J. Pharm. Pract.</u>, 23(6): 570-574 (2010).
- 20. D.C. Wu and C.M. Ofner III, Adsorption and Degradation of Doxorubicin from Aqueous Solution in Polypropylene Containers, <u>AAPS PharmSciTech</u>, 14(1): 74-77 (2012). DOI: 10.1208/s12249-012-9885-1.
- 21. D.C. Wu, C.R. Cammarata, H.J. Park, B. Rhodes, C.M. Ofner III, Preparation, Drug Release, and Cell Growth Inhibition of a Gelatin Doxorubicin Conjugate. Pharm. Res, 30(8):2087-2096 (2013). DOI: 10.1007/s11095-013-1065-9.
- 22. C.R. Cammarata, M.E. Hughes and C.M. Ofner III, Carbodiimide Induced Crosslinking, Ligand Addition, and Degradation in Gelatin, <u>Mol. Pharmaceutics</u>, (2015) 12, 783-793.

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23. M.M. Alvi, R.E. Nicoletto, B.A. Eshmawi, H.K. Kim, C.R. Cammarata, C.M. Ofner III, Intracellular trafficking and cytotoxicity of a gelatin-doxorubicin conjugate in two breast cancer cell lines, <u>J. Drug Target.</u>, (2020) 28(5):487-499. DOI:10.1080/1061186X.2019.1679820

- 24. R.E. Nicoletto and C.M. Ofner III, Cytotoxic mechanisms of doxorubicin at clinically relevant concentrations in breast cancer cells. <u>Cancer Chemotherapy and Pharmacology</u>, vol 89, 285-311 (2022), https://doi.org/10.1007/s00280-022-04400-y
- 25. R.E. Nicoletto and C.M. Ofner III, Lysosome-mediated cytotoxicity in breast cancer subtype cells treated with doxorubicin, *submitted*, *J. Pharm Pharmacology*

Book Chapters

- 1. C.M. Ofner III, R.L. Schnaare, J.B. Schwartz, "Formulation of Oral Aqueous Suspensions", In <u>Pharmaceutical Dosage Forms: Disperse Systems</u>, Vol. 2, Chapter 6; H. Lieberman, G. Banker, M. Rieger, Eds.; Marcel Dekker, New York, 1989.
- 2. C.M. Ofner III, R.L. Schnaare, J.B. Schwartz, "Formulation of Oral Suspensions for Reconstitution", In Pharmaceutical Dosage Systems, Vol. 2 Chapter 8; H. Lieberman, G. Banker, M. Rieger, Eds.; Marcel Dekker, New York, 1989.
- 3. C.M. Ofner III, R.L. Schnaare, J.B. Schwartz, "Oral Aqueous Suspensions", In Pharmaceutical Dosage Forms: Disperse Systems, Vol. 2, Second Edition, Chapter 4; H. Lieberman, G. B:nker, M. Rieger, Eds.; Marcel Dekker, New York, 1996.
- 4. C.M. Ofner III, R.L. Schnaare, J.B. Schwartz, "Reconstitutable Oral Suspensions", In Pharmaceutical Dosage Forms: Disperse Systems, Vol. 2, Second Edition, Chapter 6; H. Lieberman, G. Banker, M. Rieger, Eds.; Marcel Dekker, New York, 1996.
- 5. C.M. Ofner III and R.L. Schnaare, "Suspensions" In <u>FMC Problem Solver & Reference Manual</u>, FMC Corporation, Philadelphia, 2000.
- 6. P. Gupta, C.M. Ofner III, and R.L. Schnaare, "Emulsions" In <u>FMC Problem Solver & Reference Manual</u>, FMC Corporation, Philadelphia, 2000.
- 7. C.M. Ofner III and C. Klech-Gelotte, "Gels and Jellies", In <u>Encyclopedia of Pharmaceutical Technology</u>, Second Edition; J. Swarbrick and J. Boylan, Eds.; Marcell Dekker, New York, on line 2001, hardcopy 2002.
- 8. B.J. Bowman and <u>C.M. Ofner III</u>, "Hard Gelatin Capsules", <u>In Protein-based Films and Coatings</u>, Ed., A. Gennadios, CRC Press, Boca Raton, 2002.
- 9. Bill J. Bowman <u>C.M. Ofner III,</u> and H. Schott, Colloidal Dispersions, in <u>Remington:</u> *The Science and Practice of Pharmacy,* Ed. R. Hendrickson, 21st Ed., Lippincott, Williams, and Wilkins, Philadelphia, 2005.

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10. Bill J. Bowman <u>C.M. Ofner III</u>, H. Schott and Yvonne Perrie, Colloidal Dispersions, in <u>Remington:</u> *The Science and Practice of Pharmacy,* Ed. L.V. Allen, 22nd Ed., Pharmaceutical Press, Philadelphia, 2013.

Proceedings/Research Abstracts (Published, with Poster Presentation)

- 1. C.M. Ofner III, V.C. Jobeck, M.M. Welz, The Effect of Moisture Content on Thermal Transitions of Gelatin Granules, <u>Pharm. Res.</u>, 5: S-86 (1988) abstract #PD853.
- C.M. Ofner III and S. Koppenol, The Effect of Gelatin on Dilute Aqueous Magnetite Dispersions as Studied by Dynamic Light Scattering., <u>Pharm. Res.</u>, 6: S-120 (1989) abstract #PD-976.
- 3. M.M. Welz and C.M. Ofner III, Evaluation of a Novel Method of Crosslinking Gelatin, Pharm. Res., 6: S176 (1989) abstract #PD1199.
- 4. M.M. Welz and C.M. Ofner III, Examination of Self-Crosslinked Gelatin as a Hydrogel for Controlled Release, Pharm. Res., 7: S-159 (1990) abstract #PDD7191.
- C.M. Ofner III and L.A. Passio, Examination of Self-Crosslinked Gelatin as a Hydrogel for Controlled Release II: Effect of Crosslinking, <u>Pharm. Res.</u>, 7: S-159 (1990) abstract #PDD-7192.
- 6. W.A. Bubnis and C.M. Ofner III, Investigation of the Mechanism of Heat Crosslinking in a Proteinaceous Material, Pharm. Res., 8: S-186 (1991) abstract #PDD-7237.
- 7. L.A. Passio and C.M. Ofner III, Examination of Self-Crosslinked Gelatin as a Hydrogel for Controlled Release III: Effect of Drug Concentration, <u>Pharm. Res.</u>, 8: S-189 (1991) abstract #PDD-7250.
- 8. W.A. Bubnis and C.M. Ofner III, Evaluation of Condensation Crosslinking During Dehydration of Gelatin at Elevated and Room Temperatures, <u>Pharm. Res.</u>, 9: S-184 (1992) #PDD-7061.
- 9. F.J. Nowaczyk Jr., R.L. Schnaare, C.M. Ofner III, R.J. Wigent, A Spectrophotometric Modification of the Winkler Method for Oxygen Measurement in Aqueous Solutions, Pharm. Res., 9: S-46 (1992) #APQ-1141.
- G.W. Stagliano, D.E. Kauffman, A. Biczo, G. Caldero Linhoff, C.M. Ofner III, Sustained Release of Methotrexate from Gelatin Microspheres, <u>Pharm. Res.</u>, 10: S-221 (1993) #PDD-7187.
- 12. S.D. Stockl, W.A. Bubnis, C.M. Ofner III, A Comparison of Heat Dehydration Crosslinking in Gelatin and Collagen, <u>Pharm. Res.</u>, 10: S-273 (1993) #PDD 7396.

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13. M.S. Kim and C.M. Ofner III, Assay Development for Methotrexate/Gelatin Microspheres: Concurrent Determinations of Released Methotrexate, Eroded Gelatin Matrix, and Remaining Quantities of Each, Pharm. Res., 11: S-231 (1994) #PDD-7227.

- 14. W.A. Bubnis and C.M. Ofner III, Evaluation of Dextran Release from Crosslinked Gelatin and Modified Gelatin Matrices, <u>Pharm. Res.</u>, 11: S-305 (1994) #PDD-7523.
- 15. W.A. Bubnis and C.M. Ofner III, Semi-Quantitative and Quantitative Determinations of the Extent of Amino Group Crosslinking in Gelatin and Modified Gelatin, <u>Pharm. Res.</u>, 11: S-161 (1994) #PT-6123.
- 16. W.A. Bubnis, S.D. Stockl, and C.M. Ofner III, High Temperature Studies on Gelatin and Collagen: Determining the Presence and Extent of Amino Group Participation in Covalent Crosslinks, <u>Pharm. Res.</u>, 11: S-147 (1994) #PT-6065.
- 17. J.W. Mwangi and C.M. Ofner III, Modulation and Evaluation of Degree of Crosslinking in Gelatin Hydrogel Matrices Using a Water Soluble Carbodiimide, <u>Pharm. Res.</u>, 12: S-212 (1995) #PDD-7078.
- 18. M.S. Kim, C.K. Lau, R. McGroarty, Y. Kim, and C.M. Ofner III, Delivery of Methotrexate from Biodegradable Microspheres II: Microspheres Containing Different Methotrexate Concentrations, <u>Pharm. Res.</u>, 12: S-258 (1995) #PDD-7261.
- 19. R.G. Huang, C.M. Ofner III, and J.B. Schwartz, Fluorometric Assay for Determination of Crossl-Linking in Chitosan, <u>Pharm. Res.</u>, 12: S-207 (1995) #PDD-7058.
- 20. J.W. Mwangi and C.M. Ofner III,Method Development for Determination of Molecular Weight, Polydispersity and Concentration of Dextran and Ficoll Using High Performance Size Exclusion Chromatography, <u>Pharm. Res.</u>, 13: S-276 (1996) #PDD-7174.
- 21. C.M. Ofner III and W.A. Bubnis, Chemical and Swelling Evaluations of Amino Group Crosslinking in Gelatin and Modified Gelatin Matrices, <u>Pharm. Res.</u>, 13: S-275 (1996) #PDD-7170.
- 22. Kosasih and C.M. Ofner III, Evaluation of In Vitro Release of Methotrexate from Methotrexate-Gelatin Conjugates, Pharm. Res., 13: S-301 (1996) #PDD-7273.
- J.W. Mwangi and C.M. Ofner III, Elimination of Absorbance Variation as a Function of Time by Sodium Azide in the Colorimetric Assay of Polysaccharides, <u>Pharm. Res.</u>, 14: S-493 (1997) #3094.
- 24. B.J. Bowman, G.W. Stagliano, Kosasih, and C.M. Ofner III, Comparison of Methotrexate Release from Soluble Conjugates and Microspheres Prepared from the Conjugates, Pharm. Res., 14: S-275 (1997) #2193.

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25. B.J. Bowman and C.M. Ofner III, Effect of Different Reaction Variables on the Conjugation of Methotrexate to Gelatin via Specific Functional Groups, <u>PharmSci</u>, 1: S-581 (1998) #3762.

- 26. J. Huang and C.M. Ofner III, An In Vitro Model for Degradation of Gelatin Microspheres in Aqueous Media, PharmSci, 1(4):S-212 (1999) #2462.
- 27. C.S. Chen, I. Freeny, B.J. Bowman, C.M. Ofner III, Blocking and Deblocking of Gelatin Amino Groups for the Preparation of Gelatin/Methotrexate Conjugates, <u>PharmSci</u>, 1(4): S-147(1999) #3430.
- 28. B.J. Bowman and C.M. Ofner III, Characterization and Evaluation of Gelatin/Methotrexate Conjugates Having Opposite Conjugate Bond Polarities, <u>PharmSci</u>, 1(4): S-477 (1999) #3415.
- 29. B.J. Bowman and C.M. Ofner III, Cellular Growth Inhibition of Leukemia Cells by Gelatin/Methotrexate Conjugates Prepared by Site-specific Conjugation, <u>PharmSci.</u>, 2(4): 2139 (2000).
- 30. B.J. Bowman and C.M. Ofner III, Effect of Drug Load upon Leukemia Cell Growth Inhibition by Gelatin/Methotrexate Conjugates, Journal of the American Pharmaceutical Association (JAPHA), 41(2):331-332 (2001).
- 31. C.S. Chen and C. M. Ofner III, Evaluation of Gelatin Uptake in HL60 Leukemia Cells by Fluorescence Microscopy, <u>PharmSci</u>, 3(3):W4343 (2001).
- 32. K. Pica and C. M. Ofner III, A Method to Study Enzymatic Degradation of Gelatin by Cathepsin B, <u>PharmSci</u>, 3(3):W4760 (2001).
- 33. C.J. Gorka, H. Foster, J Crisafulli, and C.M. Ofner III, Uptake by Leukemia HL-60 Cells using Increasing Concentrations of Methotrexate, <u>Journal of The American Pharmaceutical Association</u> (JAPHA), 42(2): 309(2002).
- 34. C.M. Ofner III, CS Chen, K Pica, Evaluation of Uptake of High Molecular Weight Methotrexate/Gelatin Conjugates in HL60 Leukemia Cells, <u>Journal of The American Pharmaceutical Association</u> (JAPHA), 42(2):309 (2002).
- 35. C.S. Chen and C.M. Ofner III, Absence of Charge Effect On the Cytotoxicity of Gelatin-Methotrexate Conjugates in HL60 Leukemia Cells, <u>AAPSPharmSci</u>, 4(4): Abstract M1052 (2002).
- 36. K. Pica and C.M. Ofner III, The Effect of Molar Ratio on the Lysosomal Enzymatic Degradation and Drug Release from Gelatin-Methotrexate Conjugates, <u>AAPSPharmSci</u>, 4(4): Abstract M1049 (2002).
- 37. K. Pica and C.M. Ofner III, Cathepsin B Degradation and Methotrexate Release from Gelatin-Methotrexate Conjugates, <u>AAPSPharmSci</u> (2003).

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- 75. M. Tasheva, G. Williams, B. Rhodes, D. Wu, and <u>C.M. Ofner III</u>, Preparation of a Gelatin-Doxorubicin Conjugate, USP Research Day, Poster #70, Philadelphia, PA, April 2, 2009.
- 76. H.J. Park, L. Rampersaud, D. Wu, and <u>C.M. Ofner III</u>, Determination of Drug Content in a Gelatin-Doxorubicin Conjugate, USP Research Day, Poster #71, Philadelphia, PA, April 2, 2009.
- 77. H.J. Park, <u>C.M. Ofner III</u>, Attempts to Develop a Duel Wavelength Assay for Determination of Both Carrier and Drug in a Gelatin-Doxorubicin Conjugate, USP Research Day, Poster #73, Philadelphia, PA, April 8, 2010.
- 78. G. Williams, H.J. Park, <u>C.M. Ofner III</u>, Preparation of a Gelatin-Doxorubicin Conjugate II, USP Research Day, Poster #74, Philadelphia, PA, April 8, 2010.
- 79. D.C. Wu, H.J. Park, <u>C.M. Ofner III</u>, Preliminary Evaluation of PH Controlled Drug Release and Loss for a Gelatin-Doxorubicin Conjugate, USP Research Day, Poster #88, Philadelphia, PA, April 8, 2010.
- 80. C. Cammarata, G. Williams, <u>C.M. Ofner III</u>, Efficiency of Addition of a Glycine-Glycine Spacer to Gelatin as a Step in Preparing a Doxorubicin Conjugate, USP Research Day, Poster #89, Philadelphia, PA, April 8, 2010.

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81. M.E. Hughes, C.R. Cammarata, <u>C.M. Ofner III</u>, Short Term Exposure of Doxorubicin on PC3 Cell Proliferation, USciences Research Day, Poster #98, Philadelphia, PA, April 14, 2011.

- 82. J.M. Koval, J.C. Patel, C.R. Cammarata <u>C.M. Ofner III</u>, Cytotoxicity of Doxorubicin on PC3 Cells, USciences Research Day, Poster #99, Philadelphia, PA, April 14, 2011.
- 83. R. Shah, H.J. Park, B. Rhodes, <u>C.M. Ofner III</u>, Fractionation of Gelatin by Size Exclusion Chromatography, USciences Research Day, Poster #100, Philadelphia, PA, April 14, 2011.
- 84. S.W. Ahn, D. Wu, <u>C.M. Ofner III</u>, Experiments to Identify a Precipitate From Preparation of a Gelatin-Doxorubicin Conjugate, USciences Research Day, Poster #101, Philadelphia, PA, April 14, 2011.
- 85. D.C. Wu, <u>C.M. Ofner III</u>, Building a Gelatin-Doxorubicin Conjugate: Addition of a Dipeptide Spacer to the Gelatin Carrier, USciences Research Day, Poster #105, Philadelphia, PA, April 14, 2011.
- 86. C.R. Cammarata, <u>C.M. Ofner III</u>, Developing a Spectrophotometric Assay for Measuring Hydrazide Groups on a Gelatin Conjugate Precursor, USciences Research Day, Poster #106, Philadelphia, PA, April 14, 2011.
- 87. H.J. Park, B. Rhodes, C, Cammarata, <u>C.M. Ofner III</u>, Gelatin Fractionation by Ethanol Precipitation, USciences Research Day, Poster #107, Philadelphia, PA, April 14, 2011.
- 88. C.R. Cammarata, <u>C.M. Ofner III</u>, Cytotoxic Efficacy of a Gelatin-Doxorubicin Conjugate on Prostate Cancer Cells, USciences Research Day, Philadelphia, PA, April 12, 2012.
- 89. J. Koval, J. Patel, C.R. Cammarata, <u>C.M. Ofner III</u>, Does the Presence of Antibiotic in Growth Medium Affect Cytotoxicity of Doxorubicin in Cell Culture Studies?, USciences Research Day, Philadelphia, PA, April 12, 2012.
- 90. R. Shah, J. Krysiak, C.R. Cammarata, <u>C.M. Ofner III</u>, Protein Performance Assay to Standardize Size Exclusion Chromatography Column for Gelatin Fractionation, USciences Research Day, Philadelphia, PA, April 12, 2012.
- 91. M. Hughes, C.R. Cammarata, <u>C.M. Ofner III</u>, Possible Degradation of Gelatin during Prolonged Experimentation, USciences Research Day, Philadelphia, PA, April 12, 2012.
- 92. M. Hughes, C.M. Ofner III, Inducement and Measurement of Crosslinking in Type IV Collagen, USciences 2013 Research Day, April 18, poster 108.
- 93. R.B. Shah, H.K. Kim, C.M. Ofner III, Evaluation and Comparisons of Modified BCA Assay Methodologies for Gelatin, USciences 2013 Research Day, April 18, poster 107.

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94. C.R. Cammarata, D.C. Wu, B.T. Rhodes, CM Ofner III, Improved Synthesis and Separation of a Gelatin-Doxorubicin Conjugate, USciences 2013 Research Day, April 18, poster 123.

- 96. J. Lombardo, R. Samudralwar, C.M. Ofner III, Development of a Method to Evaluate Dialysis of a Low Molecular Weight Solute in Water, 2013 Research Day, April 18, poster 106.
- 97. C.R. Cammarata, D.C. Wu, C.M. Ofner III, Developing a Spectrophotmetric Assay for Hydrazide Group Determination as an Evaluation of a Gelatin Conjugate Precursor, Philadelphia Pharmaceutical Forum, Philadelphia, PA, March 14, 2013.
- 98. R. Samudralwar, M. Patel, H.K. Kim, C.M. Ofner III, Assesing EDC Induced Crosslinking in Gelatin to Explore Conditions to Synthesize a Gelatin Drug Delivery System, USciences 2014 Research Day, April 10, poster 124.
- 99. C.R. Cammarata and C.M. Ofner III, Understanding the Role of Carbodiimide Addition of Amino-Containing Ligands in the Synthesis of a Gelatin-Doxorubicin Conjugate, USciences 2014 Research Day, April 10, poster 130.
- 100. H.K. Kim, K. Patel and C.M. Ofner III, Fractionation and Characterization of Gelatin for Gelatin-Doxorubicin Conjugates, USciences Research Day, April 9, 2015, Poster 80.
- 101. M. Alvi and C.M. Ofner III, Development of a protein assay for determination of gelatin in a gelatin-doxorubicin conjugate, USciences Research Day, April 17, 2016.
- 102. M. Singh and C.M. Ofner III, Measurement of Doxorubicin Cleavage from a Gelatin Doxorubicin Conjugate and a Conjugate Derivative, USciences Research Day, April 17, 2016.
- A.T. Grim and C.M. Ofner III, The Effect of Drug Incubation Times on the Detection of Doxorubicin within Breast Cancer Cells through Flow Cytometry, USciences Research Day, April 17, 2016.
- 104. B. Eshmawi and C.M. Ofner III, Doxorubicin Uptake in MCF7 Breast Cancer Cells, USciences, Research Day, April 17, 2016.
- 105. H. Shankle, C.M. Ofner III, Impact of tumor pH on Cell Growth and on Growth Inhibition of an Anticancer Drug, USciences Research Day, April 6, 2017.
- 106. B. Eshmawi, C.M. Ofner III, Nuclear Uptake of Released Drug from a Gelatin-Doxorubicin Conjugate in MCF-7 Breast Cancer Cells, USciences Research Day, April 5, 2018.
- 107. M. Alvi and C.M. Ofner III, Intracellular distribution of doxorubicin and gelatin-doxorubicin conjugate in cellular compartments of MCF-7 breast cancer cells and quantification with Fiji, USciences Research Day, April 5, 2018.

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108. H. Shankle, N. Mohan, E. Sauers, M. Alvi, C.M. Ofner III, Does Desipramine Induce Lysosome Dumping and a Synergistic Doxorubicin Cytotoxicity in TNBC Cells? USciences Research Day, April 5, 2018.

- 109. N. Mohan, C.M. Ofner III, Uptake of Doxorubicin at Early Times in MCF-7 Breast Cancer Cells Analyzed by Fluorescence Microscopy, USciences Research Day, April 5, 2018.
- 110. R. Nicoletto, C.M. Ofner III, Cytotoxicity and Viability of MCF7 Breast Cancer Cells Exposed to a Doxorubicin Conjugate, USciences Research Day, April 5, 2018.
- 111. H. Shankle, G. Whitaker, M. Mazolla, E. Boos, C.M. Ofner III, Continued Studies on Desipramine Synergism of Doxorubicin Cytotoxicity in Triple Negative Breast Cancer Cells, USciences Research Day, April 4, 2019.
- 112. G. Whitaker, E. Boos, P. Schlechter, D. Guardia, C.M. Ofner III, Cytotoxicity and Lysosomal Membrane Permeabilization for Triple Negative Breast Cancer Cell Treatment through Cationic Amphiphilic Drugs, USciences Virtual Research Day, March 30, 2021, Live Presentation.
- 113. R. Nicoletto, C.M. Ofner III, Investigating Reactive Oxygen Species and p53 in Doxorubicin Cytotoxicity of Breast Cancer Cells, USciences Virtual Research Day, March 30, 2021, Live Presentation.
- 114. A. Babu, D. Patel, P. Schlechter, C.M. Ofner III, Studies to improve fluorescent determination of lysosome membrane permeabilization in triple negative breast cancer cells, USciences Research Day, April 14, 2022.
- 115. S. Pantano, H. Davis, A. Hidalgo, C.M. Ofner III, Investigations of a FRET method to measure lysosome size changes in triple negative breast cancer cells, USciences Research Day, April 14, 2022.
- 116. R.E. Nicoletto and C..M Ofner III, Investigating the lysosome-dependent cytotoxicity of doxorubicin in breast cancer cells, USciences Research Day, April 14, 2022.
- 117. S. Kodipalli and C.M. Ofner III, Conjugation of an ester derivative of paclitaxel with acid-sensitive hydrazide to form a targeted anticancer drug conjugate. Annual Research Day, Saint Joseph's University, April 13, 2023.
- 118. A. Hidalgo, K.. Dang, K Kulha, C.M. Ofner III. FRET in TNBC Lysosomes II: Evaluation of FRET to Measure Lysosome Swelling in Triple Negative Breast Cancer Cells. Annual Research Day, Saint Joseph's University, April 13, 2023.
- A. Babu, M. Stanford, M. Kahn, C.M. Ofner III, Nuclear Uptake of Doxorubicin in Triple Negative Breast Cancer (TNBC) Cells, Annual Research Day, Saint Joseph's University, April 13, 2023.

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 S. Patel, C.M. Ofner III, Effect of buffer composition on cell morphology in a triple negative breast cancer cell line, Annual Research Day, Saint Joseph's University, April 11, 2024.

- 121. G Ho, Clyde Ofner III, Preliminary metabolism comparisons between high and low passages of a triple negative breast cancer cell line, Annual Research Day, Saint Joseph's University, April 11, 2024.
- 122. K. Kulha, C.M. Ofner III, Preliminary FRET studies: Lysosomal uptake of fluorescent dyes, Annual Research Day, Saint Joseph's University, April 11, 2024.
- 123. D. Antonelli, K. Abraham, C.M. Ofner III, Early nuclear uptake of doxorubicin II: In a triple negative breast cancer cell line, Annual Research Day, Saint Joseph's University, April 11, 2024.
- 124. S. Kodipalli, J. Lee, C.M. Ofner III, Synthesis and analysis of an acid chloride, ester derivative of paclitaxel and acid sensitive paclitaxel hydrazide to form a targeted drug delivery conjugate, Annual Research Day, Saint Joseph's University, April 11, 2024.

GRANTS Principal Investigator

- 1. FMC Corporation, Marine Colloids Division, Independent Evaluation of a Marine Colloid, 1/1/89-6/30/90, \$20,000; C.M. Ofner III, J.B. Schwartz.
- 2. Pharmaceutical Manufacturer Association (PMA) Foundation, Undergraduate Research Fellowship in Pharmaceutics for an undergraduate student, Hydrogels of Self-Crosslinked Gelatin as Controlled Release Systems, 6/1/90-9/1/91, \$5,000; C.M. Ofner III.
- 3. Pharmaceutical Manufacturer Association (PMA) Foundation, Undergraduate Research Fellowship in Pharmaceutics for an undergraduate student, Extended Delivery of Methotrexate from Biodegradable Gelatin Microspheres, 1/94-1/95, \$5,000; <u>C.M. Ofner III</u> and M.S. Kim.
- 4. Pharmaceutical Co. S, Inc., Assay Development for Gelatin Crosslinking Project, 3/95-7/95, \$8,400; C.M. Ofner III.
- 5. Food and Drug Administration, Center for Drug Evaluation and Research, Office of Clinical Pharmacalogy and Biopharmaceutics, USPHS FDA 223-95-3006, Evaluation of Crosslinking in Gelatin Capsules Stressed with the Crosslinking Agent Formaldehyde, 7/96, \$41,125; C.M. Ofner III.
- 6. Pharmaceutical Co. FP, Vaginal Suspension Formulation and Evaluation for Study in Monkeys, 8/98, \$18,000; C.M. Ofner III and R.L. Schnaare.

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7. USP College of Graduate Studies, Gelatin/Methotrexate Conjugates to Overcome Drug Resistance in Leukemia Cells, 9/2002 Requested \$6,000, Funded \$5,000; C.M. Ofner III.

- 8. Pharmaceutical Co. J, Colloidal Material Parameter Determinations, 5/2003, \$19,500; C.M. Ofner III.
- National Institute of Health, Academic Research Enhancement Award (AREA) 1R15CA135421-01A1
 A Biodegradable Doxorubicin Conjugate for Enhanced Tumor Uptake and Efficacy Revised, 06/01/2009 – 05/31/2013; \$150,000 (Direct) \$223,780 (Total)
- 10. Agnes Varis Trust Award for Women's Leadership and Health Intracellular Delivery of Doxorubicin from a Biodegradable Conjugate for Localized Treatment of Breast Cancer with Minimal Systemic Toxicities 4/30/2015 5/1/2016; \$10,000.
- 11. Milton Lev Memorial Faculty Research Fund
 Lysosomal Membrane Permeabilization in Triple Negative Breast Cancer Cells:
 Preliminary Data and Assay Development.
 6/1/2019 5/30/2020; \$5,000.
- 12. Philadelphia College of Pharmacy (PCP) Faculty Research Award
 A Novel Paclitaxel Conjugate for Treatment of Triple Negative Breast Cancer: A
 Feasibility Study, 07/01/2020 06/30/2023; \$7,500.
- 13. Cancer Research Focus Group Grant (USciences) 2021 2022
- 14. Milton Lev Memorial Faculty Research Fund Lysosomal Swelling as a Precursor to Lysosome Membrane Permeabilization in Triple Negative Breast Cancer Cells: Preliminary Data and Assay Development, 6/1/2022 – 5/30/2023; \$5,000
- 15. DPS Undergraduate Research Award 2022 2023; \$1,500
- 16. Philadelphia College of Pharmacy (PCP Research Faculty Award Preliminary Studies for a Fragile Cancer Lysosome Hypothesis, 6/1/2024 5/30/2025; \$5,000.

Co-Investigator

1. National Institute of Health, Academic Research Enhancement Award (AREA), Artificial Blood: Design and Stability, #1R15-HL40640-01, 3/1/88-2/28/90, \$49,987; R.L. Schnaare (PI), T.S. Aurora, C.M. Ofner III.

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2. Pharmaceutical Co. A, Inc., "Independent Formulation and Analysis of an Antibiotic Tablet", 4/91-4/93, \$78,000; J.B. Schwartz (PI), A.P. D'mello, <u>C.M. Ofner III</u>, W.J. Reilly Jr., R.L. Schnaare, E.T. Sugita.

- 3. Pharmaceutical Co. B, Inc., "Independent Formulation and Analysis of a Sustained Release Tablet", 5/92-5/94, \$72,000; J.B. Schwartz (PI), A.P. D'mello, <u>C.M. Ofner III</u>, W.J. Reilly Jr., R.L. Schnaare, E.T. Sugita
- 4. Philadelphia College of Pharmacy and Science (PCPS) French, Gano, Kilmer, Pollard Pre-Doctoral Graduate Fellowship for a graduate student, A Novel Method to Enhance Crosslinking of Proteinaceous Matrices for Controlled Release of a Model Macromolecule 7/93 7/94, \$10,500; W.A. Bubnis and C.M. Ofner III.
- 5. Pharmaceutical Co. C, Inc., "Formulation of Colloidal Derivative Tablets", 3/94-3/95, \$48,000; J.B. Schwartz (PI), A.P. D'mello, <u>C.M. Ofner III</u>, P.D. Gupta, J.Moore, R.L. Schnaare, E.T. Sugita.
- 6. Pharmaceutical Co. S, Inc., "New Compound Product Development", 4/95, \$75,000; J.B. Schwartz (PI), A.P. D'mello, P.D. Gupta, J.Moore, <u>C.M. Ofner III</u>, R.L. Schnaare, E.T. Sugita.
- 7. Pharmaceutical Co. M, Inc., Tablet Product Development, 2/96, \$75,000; J.B. Schwartz (PI), A.P. D'mello, P.D. Gupta, J.Moore, <u>C.M. Ofner III</u>, R.L. Schnaare, E.T. Sugita.
- 8. Pharmaceutical Co. A, Inc., "New Topical Product Development", 7/96, \$37,500; J.B. Schwartz (PI), A.P. D'mello, P.D. Gupta, J.Moore, <u>C.M. Ofner III</u>, R.L. Schnaare, E.T. Sugita.
- 9. Pharmaceutical Co. S, Inc., "Sublingual Tablet Development", 8/96, \$18,000; J.B. Schwartz (PI), A.P. D'mello, P.D. Gupta, J.Moore, <u>C.M. Ofner III</u>, R.L. Schnaare, E.T. Sugita.
- 10. Philadelphia College of Pharmacy and Science (PCPS) French, Gano, Kilmer, Pollard Pre-Doctoral Graduate Fellowship for a graduate student, Crosslinked Gelatin Matrices: Effects on macromolecular Solute Release Rate and Mechanism 7/96 7/97, \$11,500; J.W. Mwangi and C.M. Ofner III.
- 11. Pharmaceutical Co. C, Inc., "New Compound Tablet Formulation", 5/97, \$113,000; J.B. Schwartz (PI), A.P. D'mello, P.D. Gupta, J.Moore, <u>C.M. Ofner III</u>, R.L. Schnaare, E.T. Sugita.
- 12. Pharmaceutical Co. C, Inc., "Formulation and Evaluation of a Subcutaneous Controlled Release Suspension", 6/97, \$50,000; R.L. Schnaare (PI), <u>C.M. Ofner III</u> J.B. Schwartz, J.Moore,.
- 13. Pharmaceutical Co. N, Inc., "Formulation and Evaluation of Intravenous Emulsion", 12/97, \$9,000; R.L. Schnaare (PI) and <u>C.M. Ofner III</u>.

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14. Pharmaceutical Co. I, Inc, "Producet Development and Bioavailability Studies", 3/98, \$64,375; J.B. Schwartz (co-PI), <u>C.M. Ofner III</u> (co-PI), A.P. D'mello, P.D. Gupta, J.Moore, R.L. Schnaare, E.T. Sugita.

- 15. University of the Sciences in Philadelphia (USP), Department of Pharmaceutical Sciences Graduate Student Fellowship, Methotrexate/Gelatin Conjugates for Enhanced Cellular Toxicity, 7/98-7/99, \$13,500; B.J. Bowman and <u>C.M. Ofner III.</u>
- 16. American Foundation for Pharmaceutical Education (AFPE), Methotrexate/Gelatin Conjugates for Enhanced Cellular Toxicity, 7/99-7/00, \$6,000; B.J. Bowman and <u>C.M.</u> Ofner III.
- University of the Sciences in Philadelphia (USP), Abe Roth Scholarship Evaluation of Gelatin as a Soluble Drug Delivery System Using Methotrexate as a Model Drug, 7/99 to 7/00, \$8,800; B.J. Bowman and <u>C.M. Ofner III</u>.
- 18. University of the Sciences in Philadelphia (USP), Abraham Glasser Fellowship, Methotrexate/Gelatin Conjugates for Enhanced Cellular Toxicity, 7/00 6/01, \$8,352; B.J. Bowman and C.M. Ofner III.
- 19. Pharmaceutical Col S., Antacid Studies, 9/2001, \$34,500; JB Schwartz (PI), <u>CM Ofner III</u>, PK Gupta, RL Schnaare, J Moore
- 20. Pharmaceutical Co. AB, Formulation and Preparation of Rabbit Suppositories, 2001, \$15,000; RL Schnaare (PI), CM Ofner III
- 21. Pharmaceutical Co. A Injected Suspensions for New Compounds, 3/2002, \$3000; RL Schnaare (PI), CM Ofner III, JB Schwartz.
- 22. University of the Sciences in Philadelphia, Abraham Glasser Fellowship, The Effect of Drug Load to Extend MTX Release from Gelatin- Methotrexate Conjugated Microspheres, 5/03- 5/04, \$19,000; K. Pica and <u>C.M. Ofner III</u>.
- 23. American Foundation for Pharmaceutical Education (AFPE), The Effect of Drug Load to Extend MTX Release from Gelatin- Methotrexate Conjugated Microspheres, 9/03- 8/04, \$6,000; K. Pica and C.M. Ofner III.
- 24. University of the Sciences in Philadelphia, Clayton French Fellowship, An evaluation of a gelatin-doxorubicin conjugate as an agent of lysosomal membrane permeabilization for selective apoptosis in breast cancer cells, 12/2017 12/2018, \$1,125; M. Alvi and C.M. Ofner III
- 25. Agnes Varis Trust for Leadership and Women's Health, Lysosomal membrane permeabilization in triple negative breast cancer cells: Preliminary data and assay development, 6/2019 5/2020, \$5,000; R. Nicoletto and C.M. Ofner III

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26. Agnes Varis Trust for Leadership and Women's Health, The role of lysosome membrane permeabilization in doxorubicin cytotoxicity in breast cancer cells, 9/2020 – 5/2021, \$5,000; R. Nicoletto and <u>C.M. Ofner III</u>

PROFESSIONAL Associations

SERVICE

American Association of Colleges of Pharmacy (AACP), Teacher in Pharmaceutics Section, Committee on Strategic Planning, 1995-1996

Officer, Philadelphia Pharmaceutical Forum, American Association of Pharmaceutical Scientists, 1988 to 2012

Co-Chair Student Subsidy Fund, 1994 to 2006

Region II Councilor, Rho Chi Society, Executive Committee, 2000-2002.

Reviewer

<u>Biomacromolecules</u>

Colloids and Surfaces B: Biointerfaces

Drug Development and Industrial Pharmacy

International Journal of Pharmaceutics

Journal of Biomaterials Science (Polymer Edition)

Journal of Microencapsulation

Journal of Pharmaceutical Science

Polymer Bulletin

British Journal of Cancer

Biotechnology Journal

European Journal of Pharmaceutics and Biopharmaceutics

Pharmaceutical Research

Current Nanomedicines

Trends in Biotechnology

Journal of Pharmacy and Pharmacology

Cancer Chemotherapy and Pharmacology

Cells

Scientific Reports (Nature)

Frontiers in Pharmacology

Intercollegiate

Host laboratory and supervisor for visiting international research students coordinated by the International Pharmaceutical Students Federation (IPSF) 1992-1994.

Rho Chi Induction Banquet Lecture, "Opportunities in Graduate Research for Honor Pharmacy Students", Southwestern Oklahoma State University, School of Pharmacy, Weatherford, OK, April 25, 1996.

Temple University School of Pharmacy External Reviewer for Promotion and Tenure Dossier, 1997.

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Poster Judge, Temple University School of Pharmacy Research Day, 2008 - date

Laboratory Mentor, Biomedical Technician Training Program (BTT), Wistar Institute, summer, 2009 – date

Summer Research Mentor, ACS Project SEED High School student, 2023, 2024

MEMBERSHIPS Philadelphia Pharmaceutical Forum (PPF)

American Association of Pharmaceutical Scientists (AAPS)

Rho Chi (Pharmacy Honor Society)

Sigma Xi, The Scientific Research Society

American Association of Colleges of Pharmacy (AACP)

American Association for Cancer Researchers (AACR, Active member)

CONSULTANT Dissolution problems of hard and soft gelatin capsules.

Various national and international pharmaceutical companies, and FDA

Patent Issues

STUDENTS

Major Research Advisor – Dissertations and Theses

- 1. M.W. Welz, Examination of Self-Crosslinked Gelatin as a Hydrogel for Controlled Release, M.S., February, 1990.
- 2. W.A. Bubnis, Analytical, Mechanistic, and Delivery Studies with Crosslinked Gelatin Matrices, Ph.D., September, 1994.
- 3. S.D. Stockl, The Role of ε-Amino Group Participation in the Condensation Crosslinking Mechanism of Heat Dehydrated Collagen, M.S., November, 1994.
- 4. Kosasih, Conjugation of Methotrexate to Gelatin and its Characterization, M.S., January, 1997.
- 5. G.W. Stagiano, Characterization and In Vitro Release of Methotrexate from Methotrexate/Gelatin Microspheres Prepared from Conjugates, M.S., April, 1998.
- 6. J. Huang, An In Vitro Degradation Model of Crosslinked Gelatin Microspheres in Aqueous Media, M.S., March, 2000.
- 7. J.W. Mwangi, Crosslinked Gelatin Matrices: Effects on Macromolecular Solute Release Rate and Extent, Ph.D., March, 2001.
- 8. B.J. Bowman, Preparation, *In Vitro* Characterization, and Cell Growth Inhibitory Effects of Gelatin-Methotrexate Conjugates, Ph.D., July, 2001.
- 9. C-S. Chen, The Role of Charge and Molecular Weight on Delivery of Methotrexate / Gelatin Conjugates into HL60 Leukemia Cells, Ph.D. May 2005.
- 10. K. Pica, Enzymatic Release of Methotrexate from Methotrexate/Gelatin Conjugates and Microspheres, Ph.D. September, 2005
- 11. B. Rhoads, MS non-thesis, December, 2014.
- 12. D. Wu, Preparation and Characterization of a Gelatin-Doxorubicin Conjugate, Ph.D. August 2018
- 13. C. Cammarata, Characterization and Drug Release Model of a High Molecular Weight of Gelatin-Doxorubicin Conjugates, Ph.D., May 2015.
- 14. B. Eshmawi, Intracellular trafficking of Gelatin Conjugates, Ph.D., July 2020.

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15. M. Alvi, Lysosomal Locallization of a Gelatin-Doxorubicin Conjugate in Two Breast Cancer Cell Lines, Ph.D., October 2020.

- 16. Hyun (Kate) Kim, Serum and Simulated Intratumor Degradation of a Gelatin-Doxorubicin Conjugate, combined BS/MS.
- 17. R. Nicoletto, Mechanisms of Doxorubicin at Clinically Relevant Concentrations in in Two Breast Cancer Cell Lines, PhD, 2022
- 18. S. Kodipalli, Enhanced Solubility and Tumor Efficacy of a Macromolecular Paclitaxel Conjugate, PhD, Current

Research Advisory Committees

- 1. G. Madison, M.S. Pharmaceutics, 1988.
- 2. J. Pasternacki, Ph.D. Pharmaceutics, 1990.
- 3. X. Xiang, Ph.D. Pharmaceutics, 1990.
- 4. J. Labashosky, PhD Pharmaceutics, start 1990 not complete
- 5. G. D'Lonzo, Ph.D. Pharmaceutics, 1990.
- 6. K. Barghava, Ph.D. Pharmaceutics, 1991.
- 7. R. Argenti, Ph.D. Pharmaceutics, 1992.
- 8. J. Murtha, Ph.D. Pharmaceutics, 1992.
- 9. J. Gautam, Temple University School of Pharmacy, Ph.D. Pharmaceutics, 1992.
- 10. F. Nowaczyk, Ph.D., Pharmaceutics, 1992.
- 11. G. Owens, MS Pharmaceutics, start 1992, not complete
- 12. C-Y Lee, M.S. Pharmaceutics, 1992.
- 13. J. Wu, PhD Pharmaceutics, start 1993, not complete
- 14. J. Eisman, M.S. Pharmaceutics, 1993.
- 15. K. Obashi, PhD Pharmaceutics, start 1994, not complete
- 16. K. Webster, MS, Chemistry, start 1994, not complete
- 17. A. Maderich, Ph.D. Pharmaceutics, 1996.
- 18. W. Hein, Ph.D. Pharmaceutics, 1996.
- 19. K. Zimm, Ph.D. Pharmaceutics, 1996.
- 20. D. Lebo, Ph.D. Pharmaceutics, 1997.
- 21. A. Wang, Ph.D. Pharmaceutics, 1997.
- 22. D. Winstead, Ph.D. Pharmaceutics, 1997.
- 23. N. Iloanusi, Ph.D. Pharmaceutics, 1998.
- 24. R. Huang, Ph.D. Pharmaceutics, 1998.
- 25. A.M. Cannistraci, M.S. Chemistry, 1999.
- 26. S. Habibi-Moini, Ph.D. Pharmaceutics, 2000
- 27. M. Bari, External Reviewer, Temple University School of Pharmacy, Ph.D. Pharmaceutics, 2000.
- 28. W. Lu, External Reviewer, Temple University School of Pharmacy, Ph.D. Pharmaceutics, 2000.
- 29. A. Razagi, Ph.D. Pharmaceutics, 2001.
- 30. C. Kemmerer, External Reviewer, Temple University School of Pharmacy, Ph.D. Pharmaceutics.2001
- 31. D. Davis, Ph.D. Chemistry, 2002.
- 32. Y. Zhu, Ph.D. Pharmaceutics 2005
- 33. J. Huang, Ph.D. Pharmaceutics, 2006
- 34. S. Tavisala, M.S. Chemistry, Reviewer, 2006
- 35. S. Sun, Ph.D. Pharmaceutics, 2007

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- 36. R. Graves, Ph.D. Pharmaceutics, 2007
- 37. S. Reeser, M.S. Chemistry, Reviewer, 2007
- 38. B. Raszka, M.S. Chemistry, Reviewer, 2009
- 39. S. Saylor, Ph.D. Chemistry, 2015
- 40. L. D'Angelo, Ph.D. Pharmacology/Toxicology, Reviewer, 2009
- 41. B. Gaye, Ph.D. Pharmaceutics, 2019
- 42. S. Paruchuri, Ph.D. Pharmaceutics, current
- 43. M. Fortin, Ph.D. Chemistry, 2017
- 44. M. Holt, M.S. Chemistry, Reviewer, 2012
- 45. S. Nuthalapati, External Reviewer, Temple University School of Pharmacy, Ph.D. Pharmaceutics, 2012
- 46. J. Lindberg, M.S. Biology, Reviewer, 2013
- 47. D. Sardelis, Ph.D. Chemistry, Reviewer, 2013
- 48. K. Glover, Ph.D. Cell and Molecular Biology, Reviewer, 2014
- 49. Z. Juo, PhD Chemistry, 2015
- 50. K. Zhi, External Reviewer, Temple University School of Pharmacy, Ph.D. Pharmaceutics, 2017
- 51. A. Hakami, MS Pharmaceutics, 2017
- 52. H. Patel, PhD Pharmaceutics, 2022
- 53. P. Patel, PhD Pharmaceutics, 2023
- 54. S. Sivasankaran PhD, Pharmaceutics, 2021
- 55. P. Vikal PhD, Biology, Reviewer, 2019
- 56. M. Singh, PhD Pharmaceutics, 2020
- 57. M. Desai, PhD Pharmaceutics, 2021
- 58. B. Heidrich, PhD, Biology, Reviewer, 2021
- 59. X. (Mike) Zhu, PhD, Cancer Biology, Reviewer, 2022
- 60. B. Kiernan, PhD, Pharmaceutics, 2022
- 61. R. Howley, PhD, Pharmacology, 2023
- 62. S. Mohapatra, PhD, Pharmaceutics, current
- 63. R. V. Peri, PhD, Pharmaceutics, current,
- 64. K. Yetsko, PhD, Pharmaceutics, current.

Research Fellowships for Undergraduate and Graduate Students

- 1. L. Passio, Pharmaceutical Manufacturers Association (PMA) Foundation Undergraduate Research Fellowship in Pharmaceutics, 1990.
- 2. W.A. Bubnis, USP French, Gano, Kilmer, Pollard Doctoral Fellowship, 1993-1994.
- 3. M.S. Kim, Pharmaceutical Manufacturers Association (PMA) Foundation Undergraduate Research Fellowship in Pharmaceutics, 1994.
- 4. J.W. Mwangi, USP French, Gano, Kilmer, Pollard Doctoral Fellowship, 1996-97.
- 5. B.J. Bowman, American Foundation for Pharmaceutical Education (AFPE) Pre-doctoral Fellowship, 1999-2000.
- 6. B.J. Bowman, USP Abe Roth Fellowship, 1999-2000.
- 7. B.J. Bowman, USP Glasser Fellowship, 2000-2001
- 8. K. Pica, American Foundation for Pharmaceutical Education (AFPE) Pre- Doctoral Fellowship, 2003-2004.
- 9. K. Pica, USP Glasser Fellowship, 2003-2004.
- 10. M. Alvi, USciences, Clayton French Fellowship, 2017-2018.

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- 11. M. Alvi, USciences, Gelb Fellowship, 2018-2019.
- 12. E. Nicoletto, Agnes Varis Trust for Women's Leadership and Health, 2019-2020.
- 13. E. Nicoletto, Agnes Varis Trust for Women's Leadership and Health, 2020-2021.
- 14. A. Hidalgo, Explorers and Scholars Summer Research Internship, PCP, 2022.
- 15. K. Kulha, Explorers and Scholars Summer Research Internship, PCP, 2022.
- 16. K. Kulha, J&J STEM Equity Summer Research, SJU Summer Scholars Program, 2023.
- 17. S. Adiba, ACS Project Seed Summer Research Program, 2023.
- 18. M. Godshalk, J&J STEM Equity Summer Research, SJU Summer Scholars Program, 2024.
- 19. E. Clift, Explorers and Scholars Summer Research Internship, PCP, 2024.
- 20. A. Angel, ACS Project Seed Summer Research Program, 2024.

COMMITTEES University

Hazardous Chemical Spill and Response Team (1989-1992)

Executive Council (1993-1994)

Chair, Committee on Faculty Affairs (1993-1995)

Student Discipline Committee (1994-2000)

PCPS Chapter, Sigma Xi, The Scientific Research Society

President Elect, 1995-1997.

President, 1997-1999.

Past President, 1999-2001.

Chair, Faculty Review of Library Science Department Chair (1997-1998)

Task Force on Student Grievances Procedure (1998-1999)

Middle States/ACPE Self-Study Task Force on Organization, Administration, Governance, and Governing Board (2001-2002)

Pre-tenure Review Committee, B. P., Department of Biology (2014-2015)

Pre-tenure Review Committee, J. H., Department of Biology (2014-2020)

Pre-tenure Review Committee, C. J., Department of Biology (2017-2021)

College (or School) – Pharmacy

Faculty advisor, Rho Chi, National Pharmacy Honor Society, 1989-date

B.S. Pharmacy Curriculum Committee (1988-89)

Pharmacy Planning Committee (1990-1995, 1997-2000; chair, 2005-2007)

Chair, ACPE Self-Study Task Force on Physical Facilities and Library (1993-1995)

Pharmacy Faculty Development/Promotion and Tenure Committee (1994-1995)

Task Force on Student Professionalization (2000-2001)

Chair, ACPE Self-Study Sub-Task Force on Organization and Administration (2001-2002)

Write and Administer, Pharmaceutical Calculations Proficiency Exam for pharmacy students (2003-2011)

Team Leader Calculations Committee, PharmD. Curriculum Implementation Task Force (2005-date)

Chair, ACPE Self-Study Sub-Task Force on Organization and Administration (2007-2009)

Curriculum Committee (2010 – date)

Task Force on Pharmaceutical Calculations Proficiency Exam. 2012-2016

Co-Chair, ACPE Self-Study Subcommittee on Organization and Administration (2013 -

2014)

Pharmaceutics Curriculum Working Group (2013 – 2018)

PharmD Curriculum Revision Task Force Phase 1: iPSDT/FPS modules (2015-16)

Curriculum Committee, 2014-date

ESAR Calculations Exam Committee, 2017 – date

Student Affairs Committee, 2019 – date

ESAR Course Committee, 2022 - date

ESAR Learning Support, 2021 – date

NAPLEX Pharmacy License Exam Review, 2023 - date

College (or School) - Graduate

French/Gano/ Kilmer/Pollard Pre-Doctoral Fellowship Selection Committee (1989, 1991, 1994)

Vice Chair, Graduate Subcouncil (1999-2002)

Coordinator, Faculty Research Discussion Group (2000-2002)

Strategic Planning Committee (2000-2001)

Biotechnology Initiative Committee (2000-2001)

Committee of Program Directors (2002-2012)

Department

Pharmaceutics Graduate Admissions Committee (1999-2002)

Chair, Pharmaceutics Graduate Program Self-Study Committee (1999-2000)

Pharmaceutical Sciences Department Self-Study Committee (2000-2001)

Chair, Pharmaceutical Sciences Chair Search Committee (2001-2002)

Pharmaceutics Faculty Search Committee (2001-2002)

Chair, Pharmaceutics Graduate Admissions Committee (2002-2011)

Planning Committee, Joseph B. Schwartz Memorial Symposium: Advances in Industrial Pharmacy (2008).

Pharmacology/Toxicology Faculty Search Committee (2013)

Pre-Tenure Review Committee, I. Mercier, 2019-2020.

Chair Search Committee, 2021

Laboratory Manager Search Committee, 2021

TEACHING (Past and Current, [T]eam taught, [S]ole taught)

Undergraduate and Pharmacy

Pharmaceutical Calculations (PH 305, S),1987 - 2017

Pharmaceutics and Biopharmaceutics I (PH 316/416, 318/418, T) Lecture and Lab

Pharmaceutics and Biopharmaceutics II (PH 317/417, T), Coordinator

Special Topics in Pharmaceutics – Biotechnology (PH 310, S)

Pharmaceutical Sciences Undergraduate Seminar (PH 390/490, S)

Methods in Pharmaceutical Research (PH 398/PC 330, T)

Undergraduate Research (PH 399/PHT 495 S)

PharmD APPE Elective Rotation, Research (PP 66X, S)

Foundations of Pharmaceutical Sciences 1 (RX 340, T), Coordinator, 2018 -

Foundations in Pharmaceutical Sciences 3 (RX 440, T), 2019 -

Undergraduate Seminar PharmTox & PharmSci Majors (PC324/424, PH392/491) Co-instructor, 2020 –

PharmD IPPE Elective Rotation, Research (RX 590, S)

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Graduate

Advanced Pharmaceutics (PH 750/PHS 851, T) Equilibrium Phenomena (PH 803/804, S) Analysis of Literature in Pharmaceutics (PH 895) co-instructor Graduate Seminar (PHs 890, T), Coordinator 2002 -Research Rotation (PHs 897, T)