

## CURRICULUM VITAE

Nejat Düzgüneş

### ADDRESS

Department of Biomedical Sciences  
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### EDUCATION

Diploma, 1968, Noble and Greenough School, Dedham, Mass.  
B.S., Physics, 1972, Middle East Technical University, Ankara, Turkey  
Ph.D., Biophysical Sciences, 1978, State University of New York at Buffalo  
Postdoctoral, Membrane Biophysics, 1981, University of California, San Francisco (National Cancer Institute Postdoctoral Fellow; National Research Service Award; CA-06190)

### PROFESSIONAL EXPERIENCE

|                 |                                                                                                                               |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------|
| 2010-present    | Professor, Department of Biomedical Sciences, University of the Pacific School of Dentistry, San Francisco                    |
| 1999-2018       | Student Research Coordinator, University of the Pacific School of Dentistry, San Francisco                                    |
| 1995-2010:      | Professor and Chairperson, Department of Microbiology, University of the Pacific School of Dentistry, San Francisco           |
| 1990-1995:      | Associate Professor and Chairperson, Department of Microbiology, University of the Pacific School of Dentistry, San Francisco |
| 1987-1997:      | Associate Adjunct Professor, Department of Biopharmaceutical Sciences, University of California, San Francisco                |
| 1987-1991:      | Member, Group in Biophysics, UCSF, San Francisco                                                                              |
| 1988 April-May: | Visiting Professor, Department of Biophysics, Kyoto University, Kyoto, Japan                                                  |
| 1987-1991:      | Associate Research Biochemist, Cancer Research Institute, UCSF, San Francisco                                                 |
| 1986 Nov-Dec:   | Visiting Professor, CNR Institute of Cybernetics and Biophysics, Genova, Italy                                                |
| 1985-1987:      | Assistant Adjunct Professor, Department of Pharmaceutical Chemistry, UCSF, San Francisco                                      |
| 1981-1987:      | Assistant Research Biochemist, Cancer Research Institute, UCSF, San Francisco                                                 |
| 1981-1983:      | Assistant Research Biochemist, Research Laboratory, Children's Hospital Medical Center, Oakland, California                   |
| 1978-1981:      | Postdoctoral Fellow, Cancer Research Institute, UCSF, San Francisco (Laboratory of Dr. D. Papahadjopoulos)                    |
| 1972-1978       | Pre-doctoral Fellow, Department of Biophysical Sciences, State University of New York at Buffalo                              |

### AWARDS AND FELLOWSHIPS

National Institutes of Health Predoctoral Fellowship (NIGMS Grant GM-00718-14), 1972-1976.  
SUNY at Buffalo Biomembranes Graduate Group Predoctoral Fellowship, 1976-1978.  
National Cancer Institute Postdoctoral Fellowship (National Research Service Award; CA-06190), 1978-1981.  
Visiting Professorship, CNR Institute of Cybernetics and Biophysics, Genova, Italy, 1986.  
Fellowship of the Japan Society for the Promotion of Science, Department of Biophysics, University of Kyoto, Japan, 1988.

Eberhardt Teacher-Scholar Award, University of the Pacific, 1999.

Burton C. Borgelt Faculty Advisor Award, International Association of Student Clinicians - American Dental Association, 2005.

Methodist University Teacher/Scholar Award, University of the Pacific, 2015.

## PROFESSIONAL ACTIVITIES

Co-Director, Advanced Laboratory Course on "Membrane Fusion," May 8-19, 1989, University of Coimbra, Portugal.

Organizer, Workshop on "Mechanisms and Specificity of HIV Entry into Host Cells," June 19-20, 1989, San Francisco, CA.

Co-Chairman, UCSF Symposium on "Liposomes: From Biophysics to Therapeutics," September 28, 1989.

Co-Director, Advanced Laboratory Course on "Membrane Fusion," May 19-30, 1991, University of Coimbra, Portugal.

Organizing Committee, U.S.-Japan Binational Seminar on "Membrane Fusion," November 8-12, 1992, Kyoto, Japan, 1992.

Organizing Committee, NATO Advanced Study Institute on "Trafficking of Intracellular Membranes: From Molecular Sorting to Membrane Fusion," June 19-30, 1994, Espinho, Portugal.

Organizing Committee, International Symposium on "Membrane Fusion: Mechanisms and Applications to Cell Biology, Drug Delivery and Gene Therapy," July 14-18, 1998, Salamanca, Spain.

Reviewer for National Science Foundation grant application (1994)

Member, NIH Review group (1997)

Chair, NIH ad hoc Study Section (2000, 2001)

Member, NIH Review group ZRG1 SSS-2, (2003)

Reviewer for Ph.D. Thesis, University of British Columbia, Vancouver, Canada (1998)

Reviewer and Committee Member for Ph.D. Thesis, University of Coimbra, Portugal (1999)

Reviewer for Ph.D. Thesis, University of British Columbia, Vancouver, Canada (2005)

Reviewer for Ph.D. Thesis, University of Kwazulu/Natal, South Africa (2005)

Reviewer for Faculty promotion, University at Buffalo, SUNY, Buffalo, NY (2006)

Reviewer for National Science Foundation grant application (2006)

Reviewer for Health Research Board of Ireland grant application (2006)

Reviewer for Cancer Research UK grant application (2007)

Reviewer for Ph.D. Thesis, University at Buffalo, SUNY, Buffalo, NY (2008)

Guest Editor, Proceedings of the National Academy of Sciences U.S.A. (2011)

Reviewer for the National Research Foundation Thuthuka Program grant application, South Africa (2012)

Reviewer for Fellowship Application, University of Vienna, Austria (2014)

Reviewer for Ph.D. Thesis, University of Navarra, Pamplona, Spain (2014)

Reviewer for Faculty promotion, University of Kwazulu/Natal, South Africa (2015)

Reviewer for South Africa National Research Foundation South African Research Chairs Initiative (2015)

Organizer, Biophysical Society Virtual Networking Event on Biophysical Approaches to the Development of Therapies for Infectious Disease (2020)

Reviewer for Faculty research evaluation, Witwatersrand University, South Africa (2021)

Reviewer for Early Career Award evaluation, Wellcome Trust, United Kingdom (2022)

## EDITORIAL BOARDS

Editorial Board, Archaea, An International Microbiological Journal (2004-present)

Associate Editor, Journal of Bionanoscience (2007-2011)

Editorial Board, The Open Gene Therapy Journal (2009-2013)

Editorial Board, Recent Patents on Regenerative Medicine (2010-2017)

Editorial Advisory Board, Current Regenerative Medicine (2017-present)

Editorial Board, Microbiology Research (2010-2015)

Editorial Board, Journal of Virology and Antiviral Research (2012-present)

Review Editorial Board, Frontiers in Microbiology-Virology (2013-present)

Editorial Board, Cells (2019-present)

Editorial Board, Oral (2020-2022)

Editorial Board, Frontiers in Genome Editing (2019-present)

Editorial Board, Pharmaceutics (2020-present)

Associate Editor, Oral (2022-present)  
 Editorial Board, Tumor Discovery (2024-present)  
 Senior Associate Editor, Journal of Advanced Pharmaceutical Science and Technology (2024-present)  
 Founding Editor-in-Chief, Therapeutics (2024-present)

## SERVICE AT PACIFIC

Organizer, Annual Pacific Research Day and Student Research Competitions (1999-2018)  
 Student Research Coordinator (1999-2018)  
 Organizer, Biomedical Sciences Seminars (1998-2010; 2012-2015; 2024-present)  
 Organizer, Frontiers in Dentistry Lectures (1999-2010)  
 Curriculum Committee (1990-2009)  
 Student Academic Performance and Promotions Committee (1990-2014)  
 Dental Faculty Council (1993-1996)  
 Chair, Dental Faculty Council (1994-1995)  
 Research Committee (1995-2001; 2003-2009; 2012-2015; 2010-2018(*ex officio*); 2024-present)  
 Chair, Research Committee (2004-2008; 2013-2015)  
 Chair, Biosafety in Research Committee (1994-2009)  
 President Elect and President, AADR San Francisco Section (2000-2002)  
 Councilor, AADR San Francisco Section (2008-2009)  
 Treasurer, AADR San Francisco Section (2009-present)  
 Member, Board of Directors, Pacific Dental Research Foundation (2004-2008)  
 President, Pacific Dental Research Foundation (2007-2008)  
 Member, Scholarship Group (2003-2006)  
 Strategic Planning Sub-Committee on Research (2007-2008)  
 Faculty Appointment, Promotion and Tenure Committee (2004-2007; 2024-present)  
 Task 8 and C3 Committee (2008-2010)  
 University's Institutional Priorities Committee (2009-2012)  
 University's Professional Relations Committee (2009-2012)  
 University's Faculty Grievance Committee (2011-2014)  
 University's Committee on Academic Planning and Development (2016-2020)  
 University's Promotions and Tenure Committee (2006-2008; 2021-2022)  
 Faculty Development Oversight Committee (2021-2024)  
 University's Institutional Budget Committee (2021-2024)  
 University's Sustainability Committee (2024-present)  
 Library Committee (2024-present)

## TEACHING

Teaching Assistant for Biophysics for Undergraduates, SUNY at Buffalo (1977-1978)  
 Pharmaceutical Chemistry Laboratory, UCSF (1985-1987)  
 Lectures in the Graduate Course on Biomembranes, UCSF (1989-1991)  
 Course Director, Microbiology (MC224), University of the Pacific, School of Dentistry (1990-2017)  
 Lectures in the Orthodontics Graduate Course on Craniofacial Biology and Genetics, University of the Pacific (2001-present)  
 Microbiology for the Health Professions (BIO3600) Dominican University of California (2005-2019)  
 Lectures in Pharmacology, University of the Pacific (2010-2013)  
 Lectures in the Endodontics Graduate Course on Oral Microbiology (MC424), University of the Pacific (2014-2021)  
 Lectures in the Endodontics Graduate Course on Biochemistry/Bioengineering (BC414), University of the Pacific (2018-2021).  
 Course director, BMS100 Remediation in Biochemistry and Physiology, University of the Pacific (2019)  
 Lectures in BMS232 General Microbiology and Immunology, University of the Pacific (2020-present)  
 Lectures in BMS233 Virology and Mycology, University of the Pacific (2020-present)  
 Faculty of BMS234 Application of Integrated Biomedical Sciences (2022-present)

## REFEREEING FOR JOURNALS

1. ACSNano
2. Acta Pharmaceutica Sinica B
3. Advanced Science
4. African Journal of Biotechnology
5. AIDS
6. American Association of Pharmaceutical Scientists Journal
7. American Journal of Case Reports
8. Antibiotics
9. Anti-Cancer Agents in Medicinal Chemistry
10. Antimicrobial Agents and Chemotherapy
11. Antiviral Research
12. Applied and Environmental Microbiology
13. Applied Clay Sciences
14. Archaea
15. Archives of Biochemistry and Biophysics
16. Archives of Industrial Hygiene and Toxicology
17. Archives of Microbiology
18. Archives of Oral Biology
19. Biochemical Journal
20. Biochemistry
21. Biochimica et Biophysica Acta
22. Biological Procedures Online
23. Biology of the Cell
24. BMC Oral Health
25. Biomedicine and Pharmacotherapy
26. Biomedicines
27. BioMed Central Biotechnology
28. BioMed Central Cancer
29. BioMed Research International
30. Biomacromolecules
31. Biomaterials
32. Biomolecules
33. Biophysical Journal
34. Biophysics Reviews
35. BioTechniques
36. Biotechnology and Bioengineering
37. Biotechnology Journal
38. Biotechnology Progress
39. Breast Cancer Research and Treatment
40. Cancers
41. Cellular and Molecular Biology Letters
42. Chemico-Biological Interactions
43. Chemistry and Physics of Lipids
44. Clinical Vaccine Immunology
45. Colloids and Surfaces B
46. Current Drug Delivery
47. Current Drug Therapy
48. Current Pharmaceutical Design
49. Diagnostics
50. DNA and Cell Biology
51. Drug Design, Development and Therapy
52. eLife
53. eLight
54. Environmental Science and Pollution Research

55. Environmental Science and Technology
56. European Journal of Pharmaceutics and Biopharmaceutics
57. Expert Opinion on Drug Delivery
58. Expert Opinion on Biological Therapy
59. Expert Reviews on Anti-Infective Therapy
60. FEBS Letters
61. FEBS OpenBio
62. Frontiers in Cellular and Infection Microbiology
63. Frontiers in Cell and Developmental Biology
64. Frontiers in Immunology
65. Frontiers in Medicine
66. Frontiers in Microbiology - Antimicrobials, Resistance and Chemotherapy
67. Frontiers in Microbiology – Virology
68. Frontiers in Molecular Biosciences
69. Frontiers in Neurology
70. Frontiers in Oncology
71. Frontiers in Pharmacology
72. Frontiers in Plant Science
73. Frontiers in Public Health
74. Future HIV Therapy
75. Future Lipidology
76. Gene
77. Genes
78. Glycobiology
79. Human Molecular Genetics
80. International Journal of Artificial Organs
81. International Journal of Biological Macromolecules
82. International Journal of General Medicine
83. International Journal of Molecular Sciences
84. International Journal of Oral Science
85. International Journal of Pharmaceutics
86. International Journal of Nanomedicine
87. Journal of Antimicrobial Chemotherapy
88. Journal of Basic and Clinical Physiology and Pharmacology
89. Journal of Bionanoscience
90. Journal of Cellular and Molecular Medicine
91. Journal of Colloid and Interface Science
92. Journal of Controlled Release
93. Journal of Biotechnology
94. Journal of the California Dental Association
95. Journal of Cancer Research and Clinical Oncology
96. Journal of Clinical Microbiology
97. Journal of Dental Education
98. Journal of Drug Delivery Science and Technology
99. Journal of Clinical Investigation
100. Journal of Clinical Medicine
101. Journal of Gene Medicine
102. Journal of Histochemistry and Cytochemistry
103. Journal of Lipid Research
104. Journal of Liposome Research
105. Journal of Innovative Optical Health Sciences
106. Journal of Inorganic Biochemistry
107. Journal of Materials Science: Materials in Medicine
108. Journal of Membrane Biology
109. Journal of Microencapsulation
110. Journal of Nanobiotechnology

111. Journal of Nanomaterials
112. Journal of Pharmacology and Experimental Therapeutics
113. Journal of Pharmaceutical Sciences
114. Journal of Photochemistry and Photobiology
115. The Journal of Physical Chemistry
116. Journal of Virology
117. Letters in Drug Design and Discovery
118. Life Sciences
119. Marine Drugs
120. Medical Science Monitor
121. Medicinal Chemistry Communications
122. Microbiology Research
123. Microorganisms
124. Molecular Biology Reports
125. Molecular Cancer Therapeutics
126. Molecular and Cellular Probes
127. Molecular Membrane Biology
128. Molecular Pharmaceutics
129. Molecular Therapy
130. Molecular Therapy-Nucleic Acids
131. Molecules
132. Nanomaterials
133. Nanomedicine
134. Nanomedicine: Nanotechnology, Biology and Medicine
135. Nanoscale
136. Nature Biotechnology
137. Oncolytic Virotherapy
138. Open Biology
139. Oral
140. Pathogens
141. Pathology—Research and Practice
142. Pharmaceutical Nanotechnology
143. Pharmaceutical Research
144. Pharmaceuticals
145. Pharmaceutics
146. Photodiagnosis and Photodynamic Therapy
147. Proceedings of the National Academy of Sciences USA
148. Proceedings of the National Academy of Sciences USA (Guest Editor)
149. Public Library of Science One (PLOS One)
150. Recent Patents on Regenerative Medicine
151. Science Translational Medicine
152. Surfactants in Solution
153. Therapeutic Delivery
154. Tissue and Cell
155. Turkish Journal of Physics
156. Vaccine
157. Viruses
158. Virus Research

## MEMBERSHIP IN PROFESSIONAL SOCIETIES

Biophysical Society (1973-present)  
 American Association for the Advancement of Science (1979-present)  
 The American Society for Cell Biology (1982-2012)  
 International Society for Antiviral Research (1989-2011)

American Society for Microbiology (1991-present)  
 American Society for Virology (1994-2009)  
 International Association for Dental Research (1992-1995; 2002-present)  
 American Society of Gene and Cell Therapy (2004-2020)  
 International Liposome Society (2005-2011)  
 American Dental Education Association (2006-present)

## GRANT SUPPORT

VGSK Inc. "Preparation and Characterization of Liposomes for Asthma Therapy" (PI). Total direct costs: \$47,590 (6/1/2019-12/31/2020)  
 National Institutes of Health 2R44AI066442-02 "Novel mycobacterial translocase I inhibitors - a new class of anti-TB drugs" (Collaborator; V. Reddy, PI) Total direct costs: \$124,349; total indirect costs: \$32,400 (1/9/2008-10/31/2010)  
 National Institutes of Health HL-73668, "Efficacy of Liposomal Budesonide in Experimental Asthma," (Co-PI; K. Konduri, PI) Total direct costs: \$29,790 (7/2004-4/2005)  
 US-Israel Binational Agricultural Research and Development Agency, "Prolonged Bitter Taste in Agricultural Products: Mechanisms and Inhibition Using a Multi-Disciplinary Approach," (Co-PI; M. Naim, PI) Total direct costs: \$51,000 (10/2002-9/2004)  
 Envirosystems, Inc., "Antimicrobial Activity of Ecotru in a Dental Setting," (PI), Total costs: \$16,506 (4/2002-12/2002)  
 Medical College of Wisconsin, "Liposomal Corticosteroids for Asthma Therapy" (PI of subcontract), Total costs: \$11,188 (1/2002-12/2002)  
 University of the Pacific Research Funds, "Luminometer to Detect Gene Expression for Gene Therapy" (PI) Total costs: \$3,000 (3/2001-2/2002)  
 University of Illinois at Chicago, "Liposomal Budesonide" (PI of subcontract) Total direct costs: \$7,000 (1/2000-12/2001)  
 NATO, Scientific and Environmental Affairs Division, "Strategies to Enhance Gene Delivery: Overcoming the Nuclear Barrier" (Co-PI) Total direct costs: \$7,000 (1/2000-12/2000)  
 SEQUUS Pharmaceuticals, "Anti-HIV Effect of Liposomal Amphotericin B" (PI) Total costs: \$10,080 (1/1997-12/1998)  
 SEQUUS Pharmaceuticals, "Anti-HIV Activity of CD4-Liposomes" (PI) Total Costs: \$17,608 (11/1996-10/1997)  
 National Institutes of Health U01-AI35231, "AIDS Therapy via Liposome-Mediated Gene Delivery" (PI; G. Harrison, Program Director) Annual Direct Costs: \$118,769 (1/1994-12/1996)  
 National Institutes of Health R01-AI33833, "Targeted Therapy of Mycobacterium avium Infections" (Co-PI; P. Gangadharam, PI) Direct costs per year: \$98,608 (9/1993-9/1996)  
 National Institutes of Health R01-AI32399, "Drug Targeting to HIV-Infected Cells" (PI) Annual Direct Costs: \$123,194 (8/1993-7/1996)  
 Universitywide AIDS Research Program R91UP002, "Drug Targeting to HIV-Infected Cells" (PI) Total Direct Costs: \$90,000 (1/1992-12/1993)  
 SEQUUS Pharmaceuticals, "CD4-Liposomes for Targeting to HIV-Infected Cells" (PI) Total Direct Costs: \$50,000 (3/1989-3/1991)  
 National Institutes of Health R01-25534, "Kinetics and Mechanisms of Virus-Cell Membrane Fusion" (PI) Annual Direct Costs: \$157,254 (2/1988-1/1993)  
 NATO Scientific Affairs Division, "Fusion Activity of Lipid Enveloped Viruses" (Co-investigator; M. C Pedroso de Lima, PI) Total Direct Costs: \$14,000 (7/1990-7/1994)  
 National Institutes of Health R01-28117, "Mechanisms of Membrane Fusion" (Co-investigator; D. Papahadjopoulos, PI) Total direct costs: \$610,515 (2/1985-1/1990)  
 Universitywide Task Force on AIDS, "Liposome-Mediated Therapy of *Mycobacterium avium-intracellulare* Infections" (PI) Annual direct costs: \$72,309 (7/1986-6/1990)  
 American Heart Association, "Role of Cholesterol in Membrane Fusion" (PI) Annual direct costs: \$30,000 (10/1983-9/1986)

## GRANT APPLICATIONS (2018-2024)

National Institutes of Health R01 DE028315-01 "Targeted Photodynamic Therapy of Oral Cancer" (PI; Daqing Li, Co-PI. Total direct costs: \$1,000,000



National Institutes of Health R21 AI144885-01 “A Universal and Versatile Anti-Influenza Medicine” (PI). Total direct costs: \$275,000

National Institutes of Health R21 AI146683-01 “Liposome-Mediated Mycobacteriophage Therapy of Intracellular Mycobacterium Infections” (PI) Total direct costs: \$275,000

National Institutes of Health R21 AI148042-01 “Eliminating HIV-infected Cells” (PI) Total direct costs: \$275,000

National Institutes of Health R21 DE029297-01 “Novel Photosensitizers for Photodynamic Therapy of Oral Squamous Cell Carcinoma” (PI; Daqing Li, Co-PI) Total direct costs: \$275,000

National Institutes of Health R21 AI150368-01 “Suicide Gene Therapy to Eliminate HIV-infected Cells” (PI) Total direct costs: \$275,000

National Institutes of Health R01 DE029787 “Gene Therapy of Oral Cancer” (PI; Daqing Li, co-PI) Total direct costs: \$1,250,000

University of California Emergency COVID-19 Research Seed Funding R00RG2883 “Inhibition of SARS-CoV-2 Spike Protein-Mediated Membrane Fusion” (PI) Total direct costs: \$25,000

Phospholipid Research Center (Heidelberg, Germany) “A Universal and Versatile Anti-Influenza Medicine” (PI), Total direct costs: EU120,000

National Institutes of Health R01 AI159250-01 “Inhibition of SARS-CoV-2 Spike Protein-Mediated Membrane Fusion” (PI), Total Direct Costs: \$750,000

California HIV/AIDS Research Program “Suicide Gene Therapy to Eliminate HIV-infected Cells” (PI), Total Direct Costs: \$260,000.

National Institutes of Health R21 AI150368-01A1 “Suicide Gene Therapy to Eliminate HIV-infected Cells” (PI) Total direct costs: \$275,000

National Institutes of Health R21DE031077 “Interaction of the Archaeon *Methanobrevibacter* with Oral Epithelial Cells” (PI) Total direct costs: \$275,000

National Institutes of Health R21 DE031423-01 “Long Non-Protein-Coding RNAs as Targets for Therapy of Oral Squamous Cell Carcinoma” (PI) Total direct costs: \$275,000.

National Institutes of Health R21 AI146683-01A1 “Liposome-Mediated Mycobacteriophage Therapy of Intracellular Mycobacterium Infections” (PI) Total direct costs: \$275,000.

National Institutes of Health R01 AI68531 “Inhibition of SARS-CoV-2 Spike Protein-Mediated Membrane Fusion” (PI) Total direct costs: \$1,448,698.

National Institutes of Health R01DE032384 “Gene and Oligonucleotide Therapy of Oral Squamous Cell Carcinoma in 3D Tumor Models” (PI) Total direct costs: \$2,056,657.

National Institutes of Health R01CA280059 “Photodynamic Therapy of Oral and Pharyngeal Cancer in 3D Tumor Models” (PI) Total direct costs: \$1,559,231

National Institutes of Health R01CA280059-01A1 “Targeted Photodynamic Therapy of Oral Cancer in Tumor Spheroids with in situ Production of Light and Oxygen” (PI) Total direct costs: \$2,117,273 (Submitted March 5, 2024).

National Institutes of Health 1R01AI191840-01 “Activation and Eradication of Latently HIV-1-Infected Cells with Lentiviral Vectors Expressing Activating and Cytotoxic Genes” (PI) Total direct costs: \$1,490,884 (Submitted Sept. 5, 2024).

## PATENTS

G. Steffan, I.I. Salem & N. Düzgüneş. Water-soluble iminophenazine derivative-containing pharmaceutical complexes, their preparation and use. German Patent DE 198 14814 A1.

G. Steffan, H.-J. Galla, N. Düzgüneş & C. Henke. Sterol-conjugated, anionic cyclodextrin derivative and its use in drug formulations. German Patent DE 198 14815 C2.

N. Düzgüneş, S. Simões, V. Slepishkin & M. C. Pedrosa de Lima. Non-ligand polypeptide and liposome complexes as intracellular delivery vehicles. US Patent US 6,245,427 B1.

K.S. Konduri, S.N. Nandedkar, N. Düzgüneş & P.R.J. Gangadharam. A sterically stabilized carrier for aerosol therapeutics, compositions and methods for treating the respiratory tract of a mammal. US Patent US 8,846,079.

K.S. Konduri, N. Düzgüneş, J. Pattisapu, R. Pattisapu. Sterically stabilized carrier compositions for treating a mammal. Patent Application Publication USA 2024/0180835

## PEER REVIEWED PUBLICATIONS

1. N. Düzgüneş (1975) The concanavalin A agglutinating system of cell membranes. *BioSystems* 6:209-216.



2. N. Düzgüneş (1975) On the theories of gene regulation and differentiation in eukaryotes. *Acta Biotheoretica* 24:120-126.
3. N. Düzgüneş and S. Ohki (1977) Calcium-induced interaction of phospholipid vesicles with bilayer lipid membranes. *Biochim. Biophys. Acta* 467:301-308.
4. N. Düzgüneş (1978) The biology of ethics or the ethics of biology?: The biologist's quest for meaning. *Acta Biotheoretica* 27:124-129.
5. S. Ohki and N. Düzgüneş (1979) Divalent cation-induced interaction of phospholipid vesicles and monolayer membranes. *Biochim. Biophys. Acta* 552:438-449.
6. J. Wilschut, N. Düzgüneş, R. Fraley and D. Papahadjopoulos (1980) Studies on the mechanism of membrane fusion: Kinetics of  $\text{Ca}^{2+}$ -induced fusion of phosphatidylserine vesicles followed by a new assay for mixing of aqueous vesicle contents. *Biochemistry* 19:6011-6021.
7. R. Fraley, J. Wilschut, N. Düzgüneş, C. Smith and D. Papahadjopoulos (1980) Studies on the mechanism of membrane fusion: The role of phosphate in promoting calcium-induced fusion of phospholipid vesicles. *Biochemistry* 19:6021-6029.
8. N. Düzgüneş and S. Ohki (1981) Fusion of small unilamellar liposomes with phospholipid bilayer membranes and large single-bilayer vesicles. *Biochim. Biophys. Acta* 640:734-747.
9. N. Düzgüneş, J. Wilschut, R. Fraley and D. Papahadjopoulos (1981) Studies on the mechanism of membrane fusion: Role of head-group composition in calcium- and magnesium-induced fusion of mixed phospholipid vesicles. *Biochim. Biophys. Acta* 642:182-195.
10. S.J. Rehfeld, N. Düzgüneş, C. Newton, D. Papahadjopoulos and D.J. Eatough (1981) The exothermic reaction of calcium with unilamellar phosphatidylserine vesicles: Titration microcalorimetry. *FEBS Lett.* 123:249-251.
11. N. Düzgüneş, S. Nir, J. Wilschut, J. Bentz, C. Newton, A. Portis and D. Papahadjopoulos (1981) Calcium- and magnesium-induced fusion of mixed phosphatidylserine /phosphatidylcholine vesicles. Effects of ion binding. *J. Membrane Biol.* 59:115-125.
12. J. Wilschut, N. Düzgüneş and D. Papahadjopoulos (1981) Calcium/magnesium specificity in membrane fusion: Kinetics of aggregation and fusion of phosphatidylserine vesicles and the role of bilayer curvature. *Biochemistry* 20:3126-3133.
13. K. Hong, N. Düzgüneş and D. Papahadjopoulos (1981) Role of synexin in membrane fusion: Enhancement of calcium-dependent fusion of phospholipid vesicles. *J. Biol. Chem.* 256:3641-3644.
14. S. Nir, J. Bentz and N. Düzgüneş (1981) Two modes of reversible vesicle aggregation: Particle size and the DLVO theory. *J. Colloid Interface Sci.* 84:266-269.
15. R. Sundler, N. Düzgüneş and D. Papahadjopoulos (1981) Control of membrane fusion by phospholipid head groups: II. The role of phosphatidylethanolamine in mixtures with phosphatidate and phosphatidylinositol. *Biochim. Biophys. Acta* 649:751-758.
16. K. Hong, N. Düzgüneş and D. Papahadjopoulos (1982) Modulation of membrane fusion by calcium-binding proteins. *Biophys. J.* 37:297-303.
17. S. Ohki, N. Düzgüneş and K. Leonards (1982) Phospholipid vesicle aggregation: Effect of monovalent and divalent ions. *Biochemistry* 21:2127-2133.
18. K. Hong, N. Düzgüneş, R. Ekerdt and D. Papahadjopoulos (1982) Synexin facilitates fusion of specific phospholipid membranes at divalent cation concentrations found intracellularly. *Proc. Natl. Acad. Sci. U.S.A.* 79:4642-4644.
19. E. Bearer, N. Düzgüneş, D.S. Friend and D. Papahadjopoulos (1982) Fusion of phospholipid vesicles arrested by quick-freezing: The question of lipidic particles as intermediates in membrane fusion. *Biochim. Biophys. Acta* 693:93-98.
20. S. Nir, J. Bentz, J. Wilschut and N. Düzgüneş (1983) Aggregation and fusion of phospholipid vesicles. *Prog. Surface Sci.* 13:1-124.
21. R.S. Schwartz, N. Düzgüneş, D. Chiu and B. Lubin (1983) Interaction of phosphatidylserine-phosphatidylcholine liposomes with sickle erythrocytes: Evidence for altered membrane surface properties. *J. Clin. Invest.* 71:1570-1580.
22. J. Bentz, N. Düzgüneş and S. Nir (1983) Kinetics of divalent cation-induced fusion of phosphatidylserine vesicles: Correlation between fusogenic capacities and binding affinities. *Biochemistry* 22:3320-3330.
23. S. Nir, N. Düzgüneş and J. Bentz (1983) Binding of monovalent cations to phosphatidylserine and modulation of calcium- and magnesium-induced vesicle fusion. *Biochim. Biophys. Acta* 735:160-172.
24. N. Düzgüneş, J. Wilschut, K. Hong, R. Fraley, C. Perry, D.S. Friend, T.L. James and D. Papahadjopoulos (1983) Physicochemical characterization of large unilamellar vesicles prepared by reverse-phase evaporation. *Biochim. Biophys. Acta* 732:289-299.
25. J. Wilschut, N. Düzgüneş, K. Hong, D. Hoekstra and D. Papahadjopoulos (1983) Retention of aqueous contents during divalent cation-induced fusion of phospholipid vesicles. *Biochim. Biophys. Acta* 734:309-318.
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## BOOK CHAPTERS

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244. N. Düzgüneş, M. Yee, J. Balzarini and K. Konopka (2010) Lectins and T-20, but not neutralizing antibodies, inhibit HIV-1 Env-mediated syncytium formation between Clone69T1RevEnv and SupT1 cells monitored by fluorescence microscopy. 23<sup>rd</sup> International Conference on Antiviral Research, April 25-28, 2010, San Francisco, CA. Antiviral Res. 86:A33, Abstract No. 62.
245. S. Gebremedhin, K. Konopka, I. Ulasov, M. Lesniak and N. Düzgüneş (2010) Overcoming the lipofection resistance of oral cancer cells: polyplexes and adenoviruses. American Society of Gene and Cell Therapy 13<sup>th</sup> Annual Meeting, May 17-22, 2010, Washington, DC (Abstract No. 943).
246. J. King, S. Gebremedhin, K. Konopka, N. Düzgüneş and M. Milnes (2010) Gene expression mediated by progressively truncated HIV-LTR promoters and HIV-Tat: How to kill HIV-infected cells. 51<sup>st</sup> ADA Student Clinician Research Program and 151<sup>st</sup> Annual Session, American Dental Association, October 9-12, Orlando, FL.
247. S. Kim, M. Yee, T. Alpagot, N. Düzgüneş and K. Konopka (2011) *Porphyromonas gingivalis* stimulates interleukin-8 secretion in human oral epithelial cells. IADR/AADR General Session and Exhibition, March 16-19, San Diego, CA.
248. M. Yee, T. Alpagot, N. Düzgüneş and K. Konopka (2011) Epithelial cell type affects interleukin-6 response to *Porphyromonas gingivalis*. IADR/AADR General Session and Exhibition, March 16-19, San Diego, CA.

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255. S. Gebremedhin, A. Au, K. Konopka, M. Milnes and N. Düzgüneş (2012) HIV-specific promoters to eliminate HIV-infected cells by gene therapy. 41th Annual Meeting & Exhibition of the AADR, March 21-24, Tampa, FL. J. Dent. Res. Vol. 91 (Special issue A) Abstract No. 1275, Seq. #170 (AADR Caulk/Dentsply Competition – Basic Science).
256. S. Gebremedhin, K. Konopka, B. Dorocka-Bobkowska and N. Düzgüneş (2012) *Candida* biofilms on denture acrylic discs: effects of fluconazole and miconazole. 11th ASM Conference on Candida and Candidiasis, March 29-April 2, 2012, San Francisco, CA. Poster presentation 20B.
257. J. Piskorz, K. Konopka, N. Düzgüneş, T. Goslinski and J. Mielcarek (2013) Porphyrazines containing styryldiazepine rings and their liposomal formulations: preparation, photochemical properties and photodynamic activity against oral cancer cell lines. 15<sup>th</sup> JCF-Fruhjahrssymposium, 6-9 March, Berlin.
258. P. Skupin-Mrugalska, L. Sobotta, W. Szczolko, K. Konopka, E. Tykarska, M. Wierzchowski, J. Dlugaszewska, M. Kucinska, M. Murias, N. Düzgüneş, T. Goslinski and J. Mielcarek (2013) Synthesis and development of the novel phthalocyanine derivatives possessing 2-(morpholin-4-yl)ethoxy groups of potential applications in photodynamic therapy. 15<sup>th</sup> JCF-Fruhjahrssymposium, 6-9 March, Berlin.
259. M. Wierzchowski, S. Lijewski, L. Sobotta, K. Konopka, M. Yee, N. Düzgüneş, E. Tykarska, J. Mielcarek and T. Goslinski and (2013) Synthesis and biological activity of novel phthalocyanines with diethoxy and nitroimidazolethoxy moieties. 15<sup>th</sup> JCF-Fruhjahrssymposium, 6-9 March, Berlin.
260. A. Davies, M. Yee, S. Gebremedhin, N. Düzgüneş and K. Konopka (2013) Photodynamic therapy of *Candida* biofilms. 42 Annual Meeting & Exhibition of the AADR, March 20-23, Seattle, WA. Abstr. # 3917.
261. S. Gebremedhin, S. Koons, W. Bernt and N. Düzgüneş (2014) Gene delivery to cancer cells with Metafectene and its Derivatives: Nanoparticle tracking analysis of lipoplexes. Biophysical Society 58<sup>th</sup> Annual Meeting, San Francisco, CA, Feb 15-19, 2014. Abst. 3162-Pos.
262. M.S. Park, M. Yee, N. Said-Al-Naief, E. Dadachova and N. Düzgüneş (2014) Photodynamic therapy of pharyngeal cancer with liposomal aluminum phthalocyanine chloride. 43rd Annual Meeting & Exhibition of the AADR, March 19-22, Charlotte, NC. Abst. # 411.
263. D. Chau, M. Yee, K. Konopka and N. Düzgüneş (2014) Broadly neutralizing anti-HIV antibodies do not Inhibit HIV-mediated cell-cell fusion. 43rd Annual Meeting & Exhibition of the AADR, March 19-22, Charlotte, NC. Abst. # 1033.
264. H. Kim, M. Yee, P. Skupin-Mrugalska and N. Düzgüneş (2014) Liposomal Zn- and Al-phthalocyanine enhance photodynamic therapy of oral cancer. 43rd Annual Meeting & Exhibition of the AADR, March 19-22, Charlotte, NC. Abst. # 1014.
265. J. Cheung, C. Co, K. Konopka, T. Chino and N. Düzgüneş (2015) A non-viral vector with transfection activity comparable to adenoviral transduction. 93rd General Session & Exhibition of the IADR, March 11-14, Boston, MA. Oral Session Presentation # 2009.
266. J. Cheung, K. Konopka, T. Chino and N. Düzgüneş (2015) TransfeX and TransIT-LT1 mediated gene delivery to cervical and oral squamous cell carcinoma cells. 18th Annual Meeting of the American Society of Gene & Cell Therapy, May 13-16, New Orleans, LA. Abst. # 170.
267. J. Cheung, D. Furukawa, R. Pandez, J. Piskorz, N. Düzgüneş and K. Konopka (2016) Photodynamic therapy of oral cancer with liposomal zinc phthalocyanine. 45th Annual Meeting & Exhibition of the AADR and 40th Annual Meeting of the CADR, March 16-19, Los Angeles, CA. Abst. #0497.

268. J. Cheung, K. Konopka and N. Düzgüneş (2016) TransfeX-Mediated HSV-tk/ganciclovir suicide gene therapy in HeLa cervical carcinoma and HSC-3, FaDu, and H357 oral cancer cells. 19th Annual American Society of Gene & Cell Therapy, May 3-7, Washington, D.C. Abst. # 680.
269. J. Cheung, T. Chino, K. Konopka and N. Düzgüneş (2017) Targeting the EGF receptors on oral cancer cells with EGF. 46<sup>th</sup> Annual Meeting & Exhibition of the AADR. March 22-25, 2017, San Francisco, CA. Abst. #2182.
270. D. Pham, D. Song, J. Cheung and N. Düzgüneş (2017) The CRISPR/Cas9 gene editing system to inactivate HIV: Non-specific effects. 46<sup>th</sup> Annual Meeting & Exhibition of the AADR. March 22-25, 2017, San Francisco, CA. Abst. #3535.
271. N. Düzgüneş, M. Yee and D. Chau (2018) Broadly neutralizing anti-HIV antibodies do not Inhibit HIV-1-mediated cell-cell fusion. Biophysical Society 62<sup>nd</sup> Annual Meeting, February 17-21, San Francisco, CA. Poster 2997-Pos; Abst # 18-A-689-BPS.