## Paul Nicola Danese

**Work History** Contact 93 Lincoln Drive Glastonbury, CT USA 2011-**Goodwin University**, School of Nursing & Health Professions 06033-3066 2014-Associate Professor 2012-2014 Assistant Professor +1.860.368.0332 2011-2012 Adjunct Instructor pdanese@goodwin.edu 2011-2019 Capital Community College, Department of Science & Mathematics pdanese@fdable.com Adjunct Instructor 2011-2012 Eastern Connecticut State University, Department of Biology Adjunct Instructor 2009-**FDAble** Founder 2002-2009 Melinta Therapeutics (formerly Rib-X Pharmaceuticals) Research Scientist II 2005-2009 Research Scientist 2002-2005 2000-2002 **Ironwood Pharmaceuticals** (formerly Microbia) 2002 Program Manager 2000-2002 Team Leader Senior Scientist 2000 Harvard Medical School, Department of Microbiology & Molecular Genetics 1999-2000 Postdoctoral Fellow 1996-1999 Harvard University, Department of Molecular & Cellular Biology Postdoctoral Fellow

### **Education**

1990–1996	Princeton University, Department of Molecular Biology
1996	Doctor of Philosophy. Thesis Advisor: Thomas J. Silhavy
1992	Master of Arts. Thesis Advisor: Thomas J. Silhavy
1986–1990	University of Massachusetts, Amherst, Department of Biochemistry
1990	Bachelor of Science, Thesis Advisor: Thomas L. Mason

# Danese

## **Teaching Experience**

1990

1986-1990

Henry Little Award

Chancellor's Talent Award Scholarship Tuition waiver based on academic performance

2011– 2018– 2018– 2016 2013– 2011–	Goodwin College Chemistry 110 (General Chemistry I) Chemistry 111 (General Chemistry II) Chemistry 101 (Introductory Chemistry), hybrid Chemistry 101 (Introductory Chemistry), on-line Chemistry 101 (Introductory Chemistry)
2011– 2016– 2016– 2014–2016 2012–2015 2012–2015 2011–2012	Capital Community College Chemistry 122 (General Chemistry II) Chemistry 121 (General Chemistry I Biology 235 (Microbiology) Chemistry 111 (Concepts in Chemistry) Biology 121 (General Biology) Biology 105 (Introductory Biology)
2011–2012	Eastern Connecticut State University Genetics & Society Laboratory
2014–2015 2014 2014 2014	Coursera Invited teaching assistant for Data Visualization Invited teaching assistant for Statistical Inference Invited teaching assistant for Practical Machine Learning
1999–2000 2000 1999 1999	Harvard Medical School Guest Lecturer, Graduate course in Molecular Genetics Mentor for one graduate rotation student Teaching Assistant, Medical Microbiology Laboratory
<b>1997–1998</b> 1998 1997	Harvard University Teaching Assistant, Introductory Biochemistry Mentor for two undergraduate research assistants
1991–1996 1992–1996 1992–1996 1991 1991	Princeton University Mentor for two undergraduates conducting thesis research Mentor for three graduate rotation students Teaching Assistant for MOL345, (Introductory Biochemistry) Teaching Assistant for MOL212, (Introductory Molecular Biology)
Awards	
1997–2000	Cancer Research Fund of the Damon Runyon–Walter Winchell Foundation Postdoctoral Fellowship
1990–1991	Princeton University Graduate Scholarship Award
1986–1990 1990	University of Massachusetts, Amherst Inducted, ΦΒΚ Honor Society

 $\dot{Awarded} \ to \ highest-ranked \ senior \ in \ the \ Department \ of \ Biochemistry$ 

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## **Peer-Reviewed Research**

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2021	Danese, PN. Search and Analysis of the Food and Drug Administration's (FDA) Adverse Event Reporting System (FAERS). in <b>O'Donnell's Drug Injury</b> 5th edition. James T O'Donnell, editor.
2017	Tayek, JA, Danese PNN, and Smith MS. Safety of Degludec versus Glargine in Type 2 Diabetes. <i>New England Journal of Medicine</i> , <b>377</b> : 1994–1996.
2016	Danese, PN. Search and Analysis of the Food and Drug Administration's (FDA) Adverse Event Reporting System (FAERS). in <b>O'Donnell's Drug Injury</b> 4th edition. James T O'Donnell, editor.
2014	O'Donnell, JT, Marks, DH, Danese P, and JJ O'Donnell. Drug-Induced Liver Disease: Primer for the Primary Care Physician. <i>Disease-a-Month</i> , <b>60</b> : 55–104.
2012	Danese, PN. Search and Analysis of the Food and Drug Administration's Adverse Event Reporting System. p 195–204, in <b>Drug Injury: Liability Analysis &amp; Prevention</b> 3rd edition. James T. O'Donnell, editor.
2012	Somberg, JC, McEwen, P, Basu, S, Danese, PN, and J Molnar. Medical Device Recalls in the US. <i>Circulation</i> : <b>126</b> : A11403.
2009	Pratt, LA and P Danese. More Eyeballs on AERS. <i>Nature Biotechnology</i> , <b>27</b> : 601–602.
2008	Lawrence, L, Danese P, DeVito, J, Franceschi, F, and J Sutcliffe. <i>In vitro</i> activities of the R $\chi$ -01 oxazolidinones against hospital and community pathogens. <i>Antimicrobial Agents and Chemotherapy</i> , <b>52</b> : 1653–1662.
2002	Danese, PN. Antibiofilm approaches: prevention of catheter colonization. <i>Chemistry and Biology</i> , <b>9</b> : 873–880.
2001	Danese, PN, Pratt, LA, and R Kolter. Biofilm formation as a developmental process. <i>Methods in Enzymology</i> , <b>336</b> : 19–26.
2000	Danese, PN, Pratt, LA, Dove, S, and R Kolter. The outer-membrane protein, Ag43, mediates cell-to-cell interactions within <i>E. coli</i> biofilms. <i>Molecular Microbiology</i> , <b>37</b> : 424–432.
2000	Danese, PN, Pratt, LA, and R Kolter. Exopolysaccharide production is required for development <i>Escherichia coli</i> K-12 biofilm architecture. <i>Journal of Bacteriology</i> , <b>182</b> : 3593–3596.
1999	Samuel, ADT, Pitta TP, Ryu, WS, Danese PN, Leung ECW, and HC Berg. 1999. Flagellar determinants of bacterial sensitivity to $\chi$ -phage. <i>Proceedings of the National Academy of Sciences, USA</i> , <b>96</b> : 9863–9866.
1998	Danese, PN, Oliver, GR, Barr, K, Bowman GD, Rick, PD, and TJ Silhavy. Accumulation of the Enterobacterial Common Antigen Lipid II Biosynthetic Intermediate Stimulates <i>degP</i> Transcription in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , <b>180</b> : 5875–5884.
1998	Danese, PN, and TJ Silhavy. Targeting and Assembly of Periplasmic and Outermembrane Proteins in <i>Escherichia coli</i> . <i>Annual Review of Genetics</i> , <b>32</b> : 59–94.
1998	Danese, PN, and TJ Silhavy. CpxP, a Stress-combative Member of the Cpx Regulon in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , <b>180</b> : 831–839.

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### Peer-Reviewed Research Continued

1997	Jones, CH, Danese, PN, Pinkner, JS, Silhavy TJ, and SJ Hultgren. The Chaperone-assisted Membrane Release and Folding Pathway is Sensed by Two Signal Transduction Systems. <i>EMBO Journal</i> , <b>16</b> : 6394–6406.
1997	Danese, PN and TJ Silhavy. 1997. The σ-E and the Cpx Signal Transduction Systems Control the Synthesis of Periplasmic Protein-Folding Enzymes in <i>Escherichia coli</i> . <i>Genes &amp; Development</i> , <b>11</b> : 1183–1193.
1995	Danese, PN, Snyder, WB, Cosma CL, Davis LJB, and TJ Silhavy. The Cpx Two-component Signal Transduction Pathway of <i>Escherichia coli</i> Regulates Transcription of the Gene Specifying the Stress-inducible Periplasmic Protease, DegP. <i>Genes &amp; Development</i> , 9: 387–398.
1995	Danese, PN, Murphy, CK, and TJ Silhavy. Multicopy Suppression of Coldsensitive sec Mutations in Escherichia coli. Journal of Bacteriology, 177: 4969–4973.
1995	Snyder, WB, Davis, LBJ, Danese PN, Cosma CL, and TJ Silhavy. Overproduction

of NlpE, a New Outer-membrane Lipoprotein, Suppresses the Toxicity of Periplasmic LacZ by Activation of the Cpx Signal Transduction Pathway. *Journal of Bacteriology*, 177: 4216–4223.

Cosma, CL, Danese PN, Carlson, IH, Silhavy TI, and WB Snyder. Activation of the

Cosma, CL, Danese PN, Carlson, JH, Silhavy TJ, and WB Snyder. Activation of the Cpx Two-component Signal Transduction Pathway in *Escherichia coli* Suppresses Envelope Associated Stresses. *Molecular Microbiology*, **18**: 491–505.

Leonhardt, SA, Fearon, K, Danese, PN, and TL Mason. 1993. *HSP78* Encodes a Yeast Mitochondrial Heat Shock Protein in the Clp Family of ATP-dependent Proteases. *Molecular and Cellular Biology*, 13: 6304–6314.

### **Computer Skills**

1993

#### **General Purpose Programming Languages**

Python, Java, Ruby, VBScript

#### Machine Learning / Scientific Programming

ChemAxon Marvin, OpenBabel, R, Scikit-Learn, SciPy

### **Relational Databases**

MySQL, Oracle, SQLite

#### Office Productivity & Publishing

► LTEX, Microsoft Office, PowerBI, VBA

#### Web Development

CSS, HTML, Javascript, Lucene, Ruby on Rails, Solr

### **Hobbies**

