

## ANNA MARIE PYLE

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Yale University and Howard Hughes Medical Institute  
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### A. FIELDS OF SPECIALIZATION:

Structure and function of large RNA molecules: ribozymes, introns, lncRNAs and viral RNA; Mechanisms of RNA-stimulated helicases and innate immune receptors; Small molecule targeting of RNA structure.

### B. ACADEMIC TRAINING:

1990-1992 Postdoctoral Fellow, Laboratory of Thomas Cech, University of Colorado  
1986-1990 Ph.D., Chemistry, Columbia University  
1981-1985 B.A., Chemistry, *magna cum laude*, Princeton University  
1983-1985 Program Certificate in Science Policy, Woodrow Wilson School of Princeton University

### C. POSITIONS:

Yale University, Molecular, Cellular and Developmental Biology and Chemistry, Sterling Professor (2018-present)  
Yale University, Molecular, Cellular and Developmental Biology and Chemistry, William Edward Gilbert Professor (2010-2018)  
Yale University, Molecular Biophysics and Biochemistry, Professor (2002-2010)  
Howard Hughes Medical Institute, Investigator (1997-present)  
Columbia University, Biochemistry and Molecular Biophysics, Professor (2001-2002); Associate Professor, Tenure (1997-2001); Assistant Professor (1992-1997)

### D. HONORS:

#### Awards and Distinguished Fellowships:

National Academy of Sciences (2023)  
Lifetime Service Award RNA Society (2022)  
Yale Faculty Innovation Award (2022)  
Eli Lilly and Company Lecturer, American Society of Virology (2021).  
Sterling Professor of Molecular, Cellular and Developmental Biology, Yale University (2018)  
Novartis Lecture, University of Pennsylvania (2018)  
Gomberg Lecture, University of Michigan (2018)  
Jerry A. Weisbach Memorial Lecture, Rockefeller University (2018)  
Blavatnik Fund for Innovation Award, New Haven (2017, 2018 and 2019)  
Plenary Lecturer, ASBMB Annual Meeting, San Diego, CA (2016)  
Elected Member, Connecticut Association of Science and Engineering (2016)  
Keynote Speaker, Keystone Meeting on Positive-Strand Viruses (2016)  
Green Lectureship in Enzymology, University of Wisconsin, Madison (2016)  
Distinguished Lecturer, Frontiers in Chemistry, Case Western Reserve University (2013)  
Michael Gait Award and Lectureship, Cambridge University (2013)  
Distinguished Visitor, European Molecular Biology Laboratory, Heidelberg (2011)  
Karl Friedrich Bonhoeffer Lecturer in Biophysics, Max Planck Institute Göttingen (2011)  
Fellow of the American Association for the Advancement of Science (2007)  
Endowed Chair, The William Edward Gilbert Professorship, Yale University (2005)  
Member of the American Academy of Arts and Sciences (2005)  
Mayor's Award for Excellence in Science and Technology, New York (2002)  
Investigator, Howard Hughes Medical Institute (1997-present)  
NSF National Young Investigator Award (1994-1999)  
Beckman Young Investigator (1994-1996)  
Searle Scholars Award (1993-1996)  
Irma T. Hirschl and Monique Weill-Caulier Career Scientist Award (1992-1997)  
Jane Coffin Childs Memorial Fund Postdoctoral Fellowship (1990-1992)  
Pegram Award, Columbia University (1989)  
J. Malcolm Miller Teaching Award, Columbia University (1986)

## **E. PROFESSIONAL ASSOCIATIONS AND ACTIVITIES:**

### **University Service:**

Budget Advisory Committee, Yale University (2013-2020)  
Chair, Committee for Design and Construction of the Yale Science Building (2014-2019)  
Quantitative Biology Strategic Planning Committee, Yale University (2018)  
Yale University Science Strategy Committee (2016-2018)  
Faculty Resource Committee, Yale University (2014-2018)  
Presidential Search Committee, Yale University (2012)  
Yale Committee on Cooperative Research (2012-2015)  
Physical Sciences Advisory and Tenure Appointments Committee; Yale University (2011-2013)  
FASTAP Committee for restructuring of the Yale tenure system (2007-2010)  
Advisory Board, Yale West Campus Institute for Systems Biology (2009-2013)  
Divisional Director for Biological Sciences, Yale University (2004-2008)  
Biological Sciences Advisory and Tenure Appointments Committee; Yale University (2003-2008)  
Executive Committee for the Yale Molecular Virology Program (2007-2012)  
Member: Yale Molecular Virology Program (2007-present)  
Member: Yale Cancer Center (2006-present)  
Yale Medical School Strategic Planning Committee (2005)  
Yale BSAC Subcommittee on Computational Biology (2004)  
Yale Wilbur Cross Medalist Selection Committee (Fall 2004-2008)  
Search Committee for the Dean of Columbia Medical School (2002)  
Dean's Committee on Strategic Planning for Columbia Health Sciences (2001)  
Committee for Selection of Louisa Gross Horwitz Prize Awardees (2000-2002)

### **External Scientific Activities and Service:**

Advisory Board Member and Founder, RNACONnect (2023-present)  
Advisory Board Member and Founder, Intronx Therapeutics (2022-present)  
Advisory Board Member, Somalogic (2022-present)  
Co-Chair, Brookhaven National Laboratory Science and Technology Steering Committee (2013-present)  
Advisory Board Chair: Helmholtz Institute for Infection Research (HIRI), Würzburg, Germany (2021-present)  
Standing Committee Member: Max Planck Institute of Multidisciplinary Sciences, Germany (2021-present)  
Advisory Board Member and Founder RIGImmune (2020-present)  
President (2019-2021) and Past President of the RNA Society  
Advisory Board Member and Secretary, Telluride Science Research Center (2019-present)  
Arrakis Therapeutics, Scientific Advisory Board (2016-2023)  
National Synchrotron Light Source II Biological Beamline Advisory Team (2009-2015)  
Chair, NIH Study Section MSFA (2014-2016); Member, NIH Study Section MSFE (2010-2013)  
American Society for Biochem. & Molecular Biology (ASBMB) Nominating Committee (2010-2013)  
Member, NIH Study Section MGB (2004-2007)

### **Editorial Boards and Editorial Service:**

Associate Editor, *The RNA Journal* (2024-present)  
Co-Editor, *Methods in Enzymology* (2013-present)  
Editorial Board Member, *The RNA Journal* (1998-2005, 2019-present)  
Editorial Board Member, *Journal of Molecular Biology* (2007-present)  
Editor: *Current Opinion Structural Biology* (2006) **Vol 16;** (2011) **Vol 21;** (2016) **Vol 36**

### **Meeting Organization:**

Co-Organizer, FASEB meeting on RNA in Cancer (2025)  
Telluride Meeting, Co-founder and Co-organizer (2014, 2016 and 2018)  
Keystone Meeting on Structural Biology of Cellular Processes, Co-Organizer (2012)  
American Society of Biochemistry & Molecular Biology Annual Meeting, Co-Organizer (2008)  
Nucleic Acids Gordon Conference, Organizer (2004, 2023)  
FASEB Helicase Meeting, Chair (2003); Co-Chair (2001); Nucleic Acid Enzymes Meeting, Chair (2002).  
Proteins that Bind RNA (Meeting Series Founder and Organizer, 1998 and 2001)  
RNA Society Meeting, Co-Organizer (1998, 2015, 2021)

**Memberships:**

American Society for Microbiology (ASM)  
American Society for Biochemistry and Molecular Biology (ASBMB)  
American Association for the Advancement of Science (AAAS)  
American Chemical Society (ACS)  
The RNA Society  
The Biophysical Society

**F. TEACHING:**

Professor in Charge: "Molecular Biology", MCDB 200; Yale University, 2012-present.  
Professor in Charge: "Biochemical and Biophysical Approaches in Molecular and Cell Biology", Yale University, 2011-2015.  
Founder and Professor in Charge: "Macromolecular Interactions & Dynamic Properties", Yale University, 2004-2011.  
Contributing Lecturer and co-founder: "Enzyme Mechanisms", Yale University, 2004.  
Contributing Lecturer and co-founder: "Macromolecular Structure and Biophysical Analysis", Yale University, 2004- 2010.  
Professor in Charge: "Structure and Chemistry of Proteins and Nucleic Acids" Yale University, 2003.  
Contributing lecturer: "Eukaryotic Molecular Biology" Yale University; 2004.  
Founder and lecturer: "Structure and Function of Nucleic Acids", Columbia University, 1994-2002  
Contributing lecturer: "Advanced Eukaryotic Molecular Genetics", Columbia University, 1996-2002.  
Contributing lecturer: "Eukaryotic Molecular Biology" and "Biochemistry", Columbia University, 1992-2002.

**G. PATENTS:**

For patent estate information please contact Yale Ventures.

**H. PUBLICATIONS (236, SEE PUBMED):**