CONTENTS Winter Focus: Undergraduate Research at the Intersection of Disciplines

Transformative Undergraduate Research: Students as the Authors of and Authorities of Their Own Education	
Their Own Education —John McKillip	11
How Can An Interdisciplinary Research Program Be Managed Effectively? —David Osgood, Lawrence Morris, and Kennon Rice	17
Interdisciplinary Research Projects Supported by the NCUR/Lancy Program —Janet Stocks, Sandy Gregerman	
Promoting STEM Careers Among Undergraduates Through Interdisciplinary Engineering Research	28
—Davyda M. Hammond, Melinda M. Lalor	
Facilitated Learning Through Interdisciplinary Undergraduate Research Involving Retrospective Epidemiological Studies and Memories of Older Adults	36
Synthetic Biology as a New Opportunity for Multidisciplinary	
Undergraduate Research	42
—Todd T. Eckdahl, Jeffrey L. Poet, A. Malcolm Campbell, and Laurie J. Heyer	
Departments	
CUR National Office News	
Calendar	1
From the President—Diane Husic	4
From the Executive Officer—Nancy Hensel	7
From the Issue Editor—James T. LaPlant	9
Undergraduate Research Highlights	48