Name of	Institution /	Short	Contact
initiative	organization	description	
CENTERS AND PROGRAMS			
American Chemical Society (ACS) Scholars Program	American Chemical Society	Undergraduate scholarship for underrepresented minorities (African American, Hispanic/Latino, and American Indian) majoring in a chemistry-related field. Website (www.acs.org/scholars) has all eligibility requirements and online application.	Racquel Jemison r_jemison@acs.org
Bride to PhD in the Natural Sciences Program	Columbia University	Post-baccalaureate research-intensive program preparing underrepresented minorities for STEM graduate school	Marcel Agüeros marcel@astro.columbia.edu
Center for Improvement of Mentored Experiences in Research (CIMER)	University of Wisconsin- Madison	 Effective research mentoring relationships are critical to developing the next generation of researchers. Learn how to improve these relationships at all career stages and promote cultural change that values excellence in research mentoring as a critical aspect of diversifying the research workforce. Houses curricula for mentor and mentee training across STEMM and career stages and assessment tools. To improve the research mentoring relationships for mentees and mentors at all career stages through the development, implementation and study of evidence-based and culturally-responsive interventions. Goals The Center for the Improvement of Mentored Experiences in Research (CIMER) will: 1. Facilitate research mentor and mentee training for mentees and mentors at all career stages 2. Develop and study new approaches and resources for advancing mentoring relationships 3. Promote cultural change that values excellence in research mentoring 4. Build a network of mentors, mentees and those engaged in enhancing and studying research mentoring relationships 5. Advance diversity in the research enterprise 	Chris Pfund cepfund@wisc.edu
Excellence in Mentoring Initiative	Northwestern University	http://www.tgs.northwestern.edu/resources-for/faculty/excellence-in- mentoring/index.html Multi-dyadic trainings and resources primarily for faculty, post-doc, and graduate students mentors and mentees.	Tracy C. Davis tcdavis@northwestern.edu

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Keystone Symposia Fellows Program	Keystone Symposia	Mentoring and professional development for trainees at the advanced postdoctoral researchers and junior faculty in the biomedical sciences	Irelene P. Ricks, PhD irelener@keystonesymposia.or g
National Research Mentoring Network (NRMN)	National Research Mentoring Network	 www.nrmn.net Part of the NIH Diversity Consortium. Nationwide consortium of biomedical professionals and institutions collaborating to provide all trainees across the biomedical, behavioral, clinical and social sciences with evidence-based mentorship and professional development programming. Example programs and structures include: Guided virtual mentoring program, Grant Writing Coaching Groups for postdocs and faculty, Mentor recognition program, Mentor and Mentee training initiatives, and online social networking platform. The National Research Mentoring Network (NRMN) is a nationwide consortium of biomedical professionals and institutions collaborating to provide all trainees across 	NRMN program office info@nrmnet.net/Phone: 617.552.3901 Christine Pfund christine.pfund@wisc.edu
		the biomedical, behavioral, clinical and social sciences with evidence-based mentorship and professional development programming. NRMN's program models emphasize the benefits and challenges of diversity, inclusivity and culture within mentoring relationships, and more broadly the research workforce. The Goal of the National Research Mentoring Network is to enhance the diversity of the NIH-funded research workforce.	
Online mentor training module: Optimizing the Practice of Mentoring	University of MN Clinical & Translational Science Institute; and NRMN	Free, access at z.umn.edu/OptimizingMentoring Self-paced 2-hour professional development course designed to prepare faculty from a range of disciplines to be effective research mentors for junior faculty, post-doctoral fellows, and graduate students in STEMM.	Anne Marie Weber- Main, PhD weber005@umn.edu
SOARS, Significant Opportunities in Atmospheric Research and Science	National Center for Atmospheric Research, NCAR	SOARS is a research-based structured internship program that provides atmospheric science research experiences and a suite of related academic, financial and social supports to students (undergrad into early grad stage) from underrepresented groups who are interested in these fields. The program is long-lived and award-winning. It is a good example of how to design a program around multiple mentors with well-defined roles for which they receive training.	Rebecca Haacker rhaacker@UCAR.edu
		ARTICLES, BOOKS, AND OTHER WRITTEN RESOURCES	
<u>Labmosphere.c</u> <u>om</u>		Personal Blog; Has a resource section with links to positive psych and management strategies	Juan Pablo Ruiz labmosphere@gmail.com

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Training the next generation	ННМІ, UMBC	This paper describes the mentoring approach used in the Summers lab at UMBC	Michael F. Summers summers@hhmi.umbc.edu
of Protein		ABS: Carl Brändén made significant contributions in areas of protein X-ray	
Scientists.		crystallography and science education. As the 2011 recipient of the Protein Society	
Protein Science.		award honoring Carl's contributions, I had the opportunity to reflect on the	
DOI:		undergraduate educational activities that have been practiced in my own laboratory	
10.1002/pro.73		over the past 24 years at the University of Maryland Baltimore County, an institution	
3		that emphasizes both research and undergraduate education. A system has been	
		developed that attempts to minimize the tension that can exist between conflicting	
		graduate research and undergraduate mentoring goals. The outcomes, as measured	
		not only by subsequent activities of the participating undergraduates, but also by the	
		activities of the graduate students and postdocs that worked with the undergraduates,	
		indicate a general overall benefit for all participants, particularly for women and	
		underrepresented minorities who are traditionally poorly retained in the sciences.	
		Greater participation of undergraduates in research activities of active scientists who	
		often focus primarily on graduate and postdoctoral training could have a positive	
		impact on the leaky undergraduate science pipeline.	
Does	University of	ABS: The study of mentoring has generally been conducted within disciplinary silos	Lillian Eby
Mentoring	Georgia	with a specific type of mentoring relationship as a focus. The purpose of this article is	leby@uga.edu
Matter? A		to quantitatively review the three major areas of mentoring research (youth,	
Multidisciplinar		academic, workplace) to determine the overall effect size associated with mentoring	
y Meta-Analysis		outcomes for protégés. We also explored whether the relationship between mentoring	
Comparing		and protégé outcomes varied by the type of mentoring relationship (youth, academic,	
Mentored and		workplace). Results demonstrate that mentoring is associated with a wide range of	
Non-Mentored		favorable behavioral, attitudinal, health-related, relational, motivational, and career	
Individuals.		outcomes, although the effect size is generally small. Some differences were also	
Journal of		found across type of mentoring. Generally, larger effect sizes were detected for	
Vocational		academic and workplace mentoring compared to youth mentoring. Implications for	
Behavior meta-		future research, theory, and applied practice are provided.	
analysis. DOI:			
10.1016/j.jvb.2			
007.04.005			

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An	University of	ABS: This meta-analysis summarized youth, academic, and workplace research on the	Lillian Eby
interdisciplinar	Georgia	potential antecedents (demographics, human capital, and relationship attributes),	leby@uga.edu
y meta-analysis		correlates (interaction frequency, relationship length, performance, motivation, and	
of the potential		social capital), and consequences (attitudinal, behavioral, career-related, and health-	
antecedents,		related outcomes) of protégé perceptions of instrumental support, psychosocial	
correlates, and		support, and relationship quality to the mentor or to the relationship. A total of 173	
consequences		meta-analytic correlations were computed based on data from 173 samples and a	
of protégé		combined N of 40,737. Among antecedents, positive protégé perceptions were most	
perceptions of		strongly associated with greater similarity in attitudes, values, beliefs, and personality	
mentoring.		with their mentors (p ranged from .38 to .59). Among correlates, protégé perceptions	
Psychological		of greater instrumental support (ρ = .35) and relationship quality (ρ = .54) were most	
Bulletin, meta-		strongly associated with social capital while protégé perceptions of greater	
analysis. DOI:		psychosocial support were most strongly associated with interaction frequency (ρ =	
10.1037/a0029		.25). Among consequences, protégé perceptions of greater instrumental support (ρ =	
279		.36) and relationship quality (ρ = .38) were most strongly associated with situational	
		satisfaction while protégé perceptions of psychosocial support were most highly	
		associated with sense of affiliation (ρ = .41). Comparisons between academic and	
		workplace mentoring generally revealed differences in magnitude, rather than	
		direction, of the obtained effects. The results should be interpreted in light of the	
		methodological limitations (primarily cross-sectional designs and single-source data)	
		and, in some instances, a small number of primary studies.	
Protégé	WVU	Research on mentoring quality	Paul Hernandez
perceptions of			prhernandez@mail.wvu.edu
high		ABS: Mentoring, particularly same-gender and same-race mentoring, is increasingly	
mentorship		seen as a powerful method to attract and retain more women and racial minorities	
quality depend		into science, technology, engineering, and mathematics (STEM) education and careers.	
on shared		This study examines elements of a mentoring dyad relationship (i.e., demographic and	
values more		perceived similarity of values) that influenced the perceived quality of mentorship, as	
than on		well as the effect of mentorship on STEM career commitment. A national sample of	
demographic		African American undergraduates majoring in STEM disciplines were surveyed in their	
match. <i>The</i>		senior year. Overall, perceived similarity, rather than demographic similarity of values,	
Journal of		was the most important factor associated with protégé perceptions of high-quality	
Experimental		mentorship, which in turn was associated with higher commitment to STEM careers.	
Education. DOI:		We discuss the implications for mentoring underrepresented students and broadening	
10.1080/00220		participation in STEM.	
973.2016.1246			
405			

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The Deaf	Gallaudet	This journal article will be published in CBE Life Sciences Education next month	Derek Braun
Mentoring	University	(March). It provides a theoretical framework and a practical means of measuring	derek.braun@gallaudet.edu
Survey: A		mentoring effectiveness with underrepresented students, by looking at cultural	
Community		sensitivity. This was piloted with deaf students because that's what we know, but we	
Cultural Wealth		think it might work with other underrepresented groups which have community	
Framework for		cultural wealth.	
measuring			
mentoring		ABS: Disabled individuals, women, and individuals from cultural/ethnic minorities	
effectiveness		continue to be underrepresented in science, technology, engineering, and	
with		mathematics (STEM). Research has shown that mentoring improves retention for	
underrepresent		underrepresented individuals. However, existing mentoring surveys were developed to	
ed students.		assess the majority population, not underrepresented individuals. We describe the	
CBE Life Science		development of a next-generation mentoring survey built upon capital theory and	
Education. DOI:		critical race theory. It emphasizes community cultural wealth, thought to be	
10.1187/cbe.15		instrumental to the success of individuals from minority communities. Our survey	
-07-0155.		targets relationships between deaf mentees and their research mentors and includes	
		Deaf community cultural wealth. From our results, we identified four segregating	
		factors: Being a Scientist, which incorporated the traditional capitals; Deaf Community	
		Capital; Asking for Accommodations; and Communication Access. Being a Scientist	
		scores did not vary among the mentor and mentee variables that we tested. However,	
		Deaf Community Capital, Asking for Accommodations, and Communication Access	
		were highest when a deaf mentee was paired with a mentor who was either deaf or	
		familiar with the Deaf community, indicating that cultural competency training should	
		improve these aspects of mentoring for deaf mentees. This theoretical framework and	
		survey will be useful for assessing mentoring relationships with deaf students and	
		could be adapted for other underrepresented groups.	

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Special Issue of AIDS and Behavior	SpringerLink	Articles on mentoring including one on defining attribute and metrics for effective mentoring relationships	Christine Pfund christine.pfund@wisc.edu
Volume 20, Issue 2 Supplement, September 2016		http://link.springer.com/journal/10461/20/2/suppl/page/1	
Securing the Future: Mentoring to Diversify the Biomedical HIV Research Workforce. ISSN: 1090- 7165			
Guidebook on Peer Coaching: Principles and Practices	To be published by Stanford University Press, fall 2017.	A practical guide for peer coaching and peer mentoring. Authors: Polly Parker, Kathy Kram, D.T. Hall, and Ilene Wasserman.	Kathy Kram kekram@bu.edu
Strategic Relationships at Work: Building Your Circle of mentors, sponsors and peers for success in business and life	Published by McGraw Hill in 2014.	Book solidly grounded in research on mentoring and developmental relationships. Authors: Wendy Murphy and Kathy Kram.	Wendy Murphy wmurphy@babson.edu Kathy Kram kekram@bu.edu

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Faculty Success	Published by	A scholarly synthesis of evidence-based practices for successful mentoring in higher	Anne Marie Weber-Main, PhD
Through	Rowman &	education, published as part of the American Council of Education's "Series on Higher	weber005@umn.edu
Mentoring: A	Littlefield	Education."	
Guide for	Education.		
Mentors,		Authors: Bland CJ, Taylor AL, Shollen SL, Weber-Main AM, Mulcahy PA. Lanham, MD.	
Mentees, and		Available at https://rowman.com	
Leaders. ISBN:			
978160709066			
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