Overview of Scientific Teaching

iBiology Scientific Teaching  https://www.ibiology.org/scientific-teaching/active-learning.html

Scientific Teaching http://science.sciencemag.org/content/304/5670/521

Taxonomy of scientific teaching: http://www.lifescied.org/content/14/1/ar9.full

Effective undergraduate instruction: https://www.nap.edu/catalog/18687/reaching-students-what-research-says-about-effective-instruction-in-undergraduate

Teaching Guides

Approaches to Biology Teaching and Learning: http://www.lifescied.org/cgi/collection/approaches_to_biology_teaching_and_learning

Blooming Biology Tool:  CBE Life Sci Educ vol 7 no 4 368-381 http://www.lifescied.org/content/7/4/368.full

UT Austin’s TIDES Teaching Resources Portal:  https://cns.utexas.edu/teaching-portal

Vanderbilt’s Center for Teaching and Learning Guides:  https://cft.vanderbilt.edu/teaching-guides/

Teaching Resources

Case Study Teaching  http://sciencecases.lib.buffalo.edu/cs/

Course-Based Undergraduate Research Experiences (CUREs)  http://curenec.cns.utexas.edu/
CourseSource  http://www.coursesource.org

MedEdPortal  https://www.mededportal.org/

Problem-Based Learning  http://www1.udel.edu/inst/why-pbl.html

Teaching Strategies to Promote Engagement
http://www.lifescied.org/content/12/3/322.full

Assessment

Assays to Assessments:  http://www.lifescied.org/content/3/2/69.full

Authentic Assessment Toolbox / Rubric Design:
http://jfmueller.faculty.noctrl.edu/toolbox/

Classroom Observation Protocol for Undergraduate STEM (COPUS):
http://www.lifescied.org/content/13/4/624.full

Interactive, Constructive, Active, and Passive (ICAP) Framework:
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Laboratory Course Assessment Survey:  CBE Life Sci Educ. 2015
Winter;14(4):ar37  http://www.lifescied.org/content/14/4/ar37.full

Project Ownership Survey:  http://www.lifescied.org/content/13/1/149.full

Persistence in the Sciences (PITS) Assessment Survey:
http://www.lifescied.org/content/15/4/ar54.full

Revealing How Students Think:  http://www.lifescied.org/content/9/1/1.full

Teaching More by Grading Less or Differently:
http://www.lifescied.org/content/13/2/159.full