

NSF ATE Stem Cell Teacher Academies

June 19-23, 2017 Madison College - Madison, WI

June 26-30, 2017 Madison College - Madison, WI

July 5-7, 2017 - City College of San Francisco - San Francisco, CA

The faculty and staff of Madison College and City College of San Francisco are pleased to announce this exciting summer professional development opportunity designed for high-school and two-year college science and technical education instructors. This year MC and CCSF have partnered to bring comprehensive curriculum in both human and mouse stem cell systems.

ABOUT THE ACADEMY:

The *EMERGING STEM CELL TECHNOLOGIES* Academy is a National Science Foundation (NSF) funded project (DUE 1501553) designed to provide hands-on experiences and instructional training necessary for teachers to incorporate stem cell technologies into their own classrooms. The Academy will be taught by a team of nationally recognized biotechnology educators led by Dr. Thomas Tubon and Dr. Robert DelVecchio.

WHAT TO EXPECT:

This academy will cover:

- Aseptic techniques
- Routine maintenance and culturing of stem cells
- Mouse models of stem cell differentiation
- Light and epifluorescence microscopy
- PCR-based gene expression profiling for germ layer analysis
- Methods for directed differentiation from pluripotent cultures
- Emerging technologies including genomic editing in stem cells (CRISPR/CAS9)
- 3D Cell Culturing Systems for Tissue Engineering
- Classroom integration of instructional materials and tips for coursework and cost sustainability



WHAT IS PROVIDED:

Funding through the NSF allows us to provide teachers with **generous stipends of \$500** to offset the costs of travel. Limited support for lodging may be provided during the workshop. Comprehensive professionally prepared curriculum will be distributed to participants to take back to the classroom.

FOR INFORMATION AND REGISTRATION, CONTACT:

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Application Deadline
April 14, 2017



DUE 1501553

