

# J. Kirk Brown Curriculum Vitae

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## ***Education/Credentials:***

CLAD Certification	2007	
National Board Certification	2002	Adolescent and Young Adult Science
University of the Pacific	86-87	Credential
University of the Pacific	92	M.A. Education
C.S.U. Stanislaus	84-86	B.A. Biology; Concentration in Entomology
Modesto Junior College	81-84	No degree

## ***Research Experience:***

The Department of Energy's Joint Genome Institute; Undergraduate Research in Microbial Genome Analysis 2010-11.

The Department of Energy's Joint Genome Institute; Microbial Genetics Educator Workshop 2006.

Applied Biosystems workshops in Polymerase Chain Reaction 1997 and Mitochondrial Sequencing 2000.

Participant in the Human Genome Networking Project at Kansas University Medical Center (Debra Collins Director) 1996, 1997.

Fellow of the Association of Western Universities at Lawrence Livermore National Laboratory Summer 1997.

Scientific Research Associate, Summer Research Internship Program, Lawrence Livermore National Laboratory:

Human Genome Center Dr. Greg Lennon, Mentor. Summer Identifying Sequence Tagged Sites, Transposon Based Sequencing 1994-97.

Completed Summer workshop in Biotechnology (Sacramento State) T.E.B. SFSU Summer 1993

## ***Highlighted Work Experience:***

1987-Present	Tracy High School I.B. Advanced Biology 1, I.B. Advanced Biology 2 R.O.P Biotechnology 1,2,3
1990-92, 2001-Present	Department Chairman: Science
2001-Present	Adjunct Associate Professor: San Joaquin Delta College
1994-Present	Lawrence Livermore National Laboratory Education Program Fellow
1997-Present	Consultant/National and International for Bio-Rad Labs.
2002-Present	Key Leader: National Science Teachers Association Building a Presence
2006-2007	Curriculum Mapping Consultant: Stanislaus County
2003- 04	TEAM Science Project Leader; NSF GK12 Grant
1994-2000	International Baccalaureate Biology Assistant Examiner
1996-1999	Drug Abuse Research Teams NIDA Grant Project Advisor
1993-1999	Biotechnology Education Program Steering Committee LLNL
1987-1999	Diving Coach Tracy High School
1987-90, 1999-2000	Water polo Coach Tracy High School
1993-97	Project Coordinator/ Founding Chair of THS Ag/Sci Academy
1992-97	San Joaquin County Mentor Teacher
1994-97	Tracy Unified School District Curriculum Council
1995-96	Curriculum Integration Mentor for CDE in Career/Voc Ed.
1986	Franklin High School; Stockton USD Student teaching

## ***Associations:***

California Teachers Association	1987-Present
Phi Delta Kappa	1993-Present
National Science Teachers Association	1996-Present
National Association of Biology Teachers	1987-Present

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## ***Selected Activities/Presentations (Comprehensive List on Website)*** <http://www.jkirkbrown.com>

Over 360 workshops given since 1994. Approximately 15,000 teachers trained.  
Presented at Most of the NSTA and NABT National Meetings since the early 90's.  
Biotechnology Presentations at Hong Kong Polytechnic University , 2009, 2010, 2011  
Biotechnology Presentation in Hong Kong, Hangzhou China 2007,2008  
Agroknowledge Biotech Workshop in El Reno Oklahoma June 2007  
Biotechnology Presentation University of Rhode Island University Feb, 2006  
Science on Saturday Lecture Cancer Biology with John Hinz Ph.D. LLNL April 2006  
Presented Lessons to teachers/professors at the National University of Singapore Sept. 2000  
Presented Biotechnology workshop for students in Whittier Alaska April 2003  
Presented Lessons to professors at Fudan University, Beijing Normal University, in Shanghai and Beijing China Sept 2002  
Presented Lessons to students, teachers in Seoul Korea Sept. 2002  
Presented for Monterey County Office of Education: "Starting Academies, Integrating Science and Agriculture with History and English" to approximately 100 teachers. Oct. 1995  
Presenter at International Baccalaureate Conference, Armand Hammer United World College, Montezuma, New Mexico, summer 1993. Biology teachers from all around World attended.  
HIV/AIDS Mentor Teacher implemented an integrated approach to the California Assembly Bill 11 requirements. One student won a trip to watch the Nobel Prize ceremonies in Stockholm, Sweden (Sophy Wong).  
Wrote successful Specialized Secondary School Grants and wrote a successful Multimedia (A.B. 1470) Grant as part of grant writing team at THS.  
Mentored many students who are now practicing scientists, doctors, teachers, lawyers, and successful in their careers.

## ***Selected Awards:***

San Joaquin County Teacher of the Year	2011-12
Teacher of the Year Junior Science and Humanities Western Reg.	2008
Cortopassi Family Foundation Outstanding Science Teacher	2008
DiNA Biotechnology Educator Award BayBio Pantheon	2007
Carlston Family Foundation Outstanding Teachers of America Award	2006
Most Influential Teacher Stanford University	2004
California's Outstanding Biology Teacher Award (N.A.B.T.)	2003
A+ Award San Joaquin Coordinating Council	2003
Character Recognition Award Tracy USD	2002,2006
KXTV 10 Calteach Teacher of the Month (April 2000)	2000
Milken National Educator Award	1999
Walmart Teacher of the Year	1999
Valley Association of Science Teachers Peer Recognition Award	1998
California Technology Assistance Project Distinguished Teacher Award	1998
Sigma XI Outstanding Science Teacher of 1996	1996
Access Excellence Award Winner/Genentech	1996
Most Influential Teacher, U.C. San Diego	1997,2000,2002,2003,2004
Most Influential Teacher, U.C. Santa Barbara	1993,1996,2002
Most Influential Teacher, M.I.T.	1993
Teacher of the Year for Tracy Unified School Dist.	1992

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## **Advisory Boards:**

Bio-Rad Biotechnology Explorer Program	2011-Present
California State University College of Natural Science	2006-Present
Carlston Family Foundation	2006-Present
Valley BioScience Coalition	2006-Present
James Enoch's High School Biotechnology Program	2006-Present
Board of Directors for the Independent Committee for the Children of California Richard Riordan Chair	2004-05

## **Keynote Addresses:**

Noyce Scholars Western US Conference “*Being a STEM Educator in the 21<sup>st</sup> Century*” April 2009  
California State University STAR (Science Teacher and Researcher) Program NASA/Ames Research Center “*A Personal Perspective on Being a Teacher-Scientist*” July 2008  
California State University Fullerton Titan Pavilion Future Teachers Keynote Address “*Impact that a Teacher can Make*” March 6,2008

## **Publications:**

Biotechnology Education Project Curriculum University of California, Lawrence Livermore National Laboratory 1995  
Access Excellence ; Various Laboratory exercises on the website.  
Advanced Learning Opportunities for California's Youth Specialized Secondary Programs: Pages 45-50 Tracy High School's Agricultural/Scientific Academy. California Department of Education 1997.

## **Featured Articles**

Brown, J. Kirk, *English, Gym, Algebra...Biotech* ,The Journal of Life Science pg 68-69 June/July 2008  
Brown, Kirk *From Partnership to Product; The Birth of a Textbook* Milken Family Foundation Connections Newsletter Summer 2011

## **Textbooks Authored**

Brown, J. Kirk *Biotechnology: A Laboratory Skills Course* Bio-Rad Laboratories 2011 ISBN#978-0-9832396-0-4  
Brown, J. Kirk *Biotechnology: A Laboratory Skills Course Teacher Supplement* Bio-Rad Laboratories 2011 ISBN# 978-0-9832396-1-1

## **Personal:**

U.S. Citizenship  
Married: Lisa  
Children: Lynae, Ryan