Michael J. Fero

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Education and Training

University of California, Irvine	Physics, Mathematics	BS, 1982
University of California, Irvine	Physics	PhD, 1988
Massachusetts Institute of Technology	Physics	Postdoc, 1988-1992

Research and Professional Experience

2011-now	Founder and President, TeselaGen Biotechnology Inc., San Francisco, CA
2005-2011	NIGMS Quantitative Research Career Fellow, Department of Developmental Biology, Stanford University
2002-2005	Director, Functional Genomics, Office of the Dean of Research, Stanford University
1999-2002	Consulting Scientist, Department of Genetics, Stanford University
1998-1999	Vice President, Neomorphic Inc (now part of Affymetrix Inc)
1997-1998	Consulting Scientist, Hyperparallel Inc (now part of Yahoo! Inc)
1992-1997	Principal Scientist, Stanford Linear Accelerator Center and MIT Lab for Nuclear Science, Massachusetts Institute of Technology

Publications

Five most closely related to proposal project

1. Christen B,* Fero MJ,* Hillson, NJ, Bowman G, Hong SH, Shapiro L, McAdams HH: High throughput identification of protein localization dependency networks. Proceedings of the National Academy of Sciences USA 2010, 107(10):4681-4686. *Equal contribution.
2. Fero MJ, Pogliano K: Advances in Quantitative Fluorescence Microscopy. Cold Spring Harbor Perspectives, Prokaryote Cell Biology 2010.
3. Christen B, Abeluik E, Collier MJ, Kalogeraki V, Passerelli B, Coller J, Fero MJ, McAdams HH, Shapiro L: The essential genome of a bacterium. Molecular Systems Biology 2010, 7:528.
4. Bowman GR, Comolli LR, Gaietta GM, Fero MJ, Hong SH, Jones Y, Lee JH, Downing KH, Ellisman MH, McAdams HH, Shapiro L: Caulobacter PopZ forms a polar subdomain dictating sequential changes in pole composition and function. Molecular Microbiology 2010, 76(1):173-189.
5. Goley ED, Yeh Y-C, Hong S-H, Fero MJ, Abeliuk E, McAdams HH, Shapiro L: Assembly of the Caulobacter cell division machine, Molecular Microbiology 2011, 80.

6. Umbarger MA, Toro E, Wright MA, Porreca GJ, Bau D, Hong SH, Fero MJ, Zhu LJ, Marti-Renom MA, McAdams HH, Shapiro L, Dekker J, Church GM: The Three-Dimensional Architecture of a Bacterial Genome and Its Alteration by Genetic Perturbation, Molecular Cell 2011, 44(2):252-264.
7. Christen B, Abeliuk E, Collier JM, Kalogeraki V, Passarelli B, Coller JA, Fero MJ, McAdams HH, Shapiro L: The Essential Genome of a Bacterium, Molecular Systems Biology 2011, 7(528).

Five other significant publications

1. Abe K, Abe T, Adam I, Akimoto H, Aston D, Baird KG, Baltay C, Band HR, Barklow TL, Bauer JM, Bellodi G, Berger R, Blaylock G, Bogard JR, Bower GR, Brau JE, Breidenback M, Bugg WM, Burke D, Burnett TH, Burrows PN, Calcaterra A, Cassell R, Chou A, Cohn HO, Coller JA, Convery MR, Cook V, Cowan RF, Crawford G, Damerell CJ, Daoudi M, Dasu S, de Groot N, de Sangro R, Dong DN, Doser M, Dubois R, Erofeeva I, Eschenburg V, Etzion E, Fahey S, Falciai D, Fernandex JP, Fero MJ, Flood K, Frey R, Hart EL etal. High-precision measurement of the left-right Z Boson cross-section asymmetry. Physical Review Letters 2000, 84(26) Pt 1:5945-9.
2. Tu IP,* Schaner M, Diehn M, Sikic BI, Brown PO, Botstein D, Fero MJ *: A method for detecting and correcting feature misidentification on expression microarrays. BMC Genomics 2004, 5:64. *Equal contribution.
3. Jeffrey SS, Fero MJ, Børresen-Dale A-L, Botstein D: Expression array technology: applications for the diagnosis and treatment of breast cancer. Molecular Intervention 2002, 2:101-109.
4. Nielsen TO, West RB, Linn SC, Alter O, Knowling MA, O'Connell JX, Zhu S, Fero MJ, Sherlock G, Pollack JR, Brown PO, Botstein D, van de Rijn M: Molecular characterisation of soft tissue tumours: a gene expression study. Lancet. 2002, 359(9314):1301-7.
5. Schaner ME, Ross DT, Ciaravino G, Sørlie T, Troyanskaya O, Diehn M, Wang YC, Duran GE, Sikic TL, Caldeira S, Skomedal H, Tu I-P, Hernandez-Boussard T, Johnson SW, O'Dwyer PJ, Fero MJ, Kristensen GB, Børresen-Dale A-L, Hastie T, Tibshirani R, van de Rijn M, Teng NN, Longacre TA, Botstein D, Brown PO, Sikic BI: Gene Expression Patterns in Ovarian Carcinomas. Molecluar Biology of the Cell 2003, 14:4376-4386.

Synergistic Activities

1. Member of NIH Grant Review Panels, Cancer Prevention and Research. (2006-2007)
2. Author: KAMS Acquire software for automated microscopy. (2006-2007)
3. Author: KAMS Analyze software for automated high throughput microscopy image analysis. (2010-2011)
4. Author: Book chapter for Cold Spring Harbor Perspectives titled, “Data Acquisition and Analysis for Biologists.” (2010)
5. Member of semi-annual JGI Grant Review Panels, CSP Synthetic Biology, 2015-16.