

CURRICULUM VITAE
Jonathon S. Coren
Associate Professor of Biology
Director of Allied Health
Elizabethtown College, Biology Department
Elizabethtown, PA 17022

Professional Experience

1991-1993	<u>Postdoctoral Fellow</u> : Thomas Jefferson University, Philadelphia, PA
1993-1997	<u>Postdoctoral Scientist</u> : DuPont Merck Pharmaceutical Company
1997-1999	<u>Adjunct Professor</u> : St. Joseph's University, Philadelphia, PA
1999-2002	<u>Assistant Professor</u> : Southwestern Oklahoma State University, Weatherford, OK
2002-2006	<u>Assistant Professor</u> : Elizabethtown College, Biology Department
2006-present	<u>Associate Professor</u> : Elizabethtown College, Biology Department
2010-2013	<u>Department Chair</u> , Biology department: Elizabethtown College

Education

1985-1991	Ph.D. in Genetics, research advisor: Dr. Volker Vogt Cornell University Department of Genetics
1981-1983	Bachelor of Arts in Biology, minor in Spanish University of Pennsylvania Philadelphia, PA 19104
1978-1980	Biology major Cornell University Ithaca, NY 14850

Teaching:

Biology 102	Human Heredity and Inherited Diseases lecture
Biology 102L	Human Heredity and Inherited Diseases laboratory
Biology 211	Genetics lecture
Biology 211L	Genetics laboratory
Biology 412	Seminar in Biology lecture
Biology 491/492	Research in Biology

Honors and Awards:

2012 Tri-Beta National Biological Honor Society \$700 undergraduate research grant
2012 Elizabethtown College Merit Award in Service
2012 Elizabethtown College Faculty Service-Learning Award

2010 2-Tri-Beta National Biological Honor Society undergraduate research grants
2009 Faculty Grant Award \$3000
2008 Tri-Beta National Biological Honor Society \$850 undergraduate research grants
2008 Elizabethtown College Merit Award in Service
2005 Elizabethtown College Faculty Service-Learning Award winner
2005 Faculty Grant Award \$3500
2001 NIH R15 AREA grant HG002216-01A1 \$100,000

Presentations:

2013 Invited Speaker and Chair of track 4: Applications of Proteomics, the 3rd International Conference on Proteomics & Bioinformatics, Philadelphia, PA
2013 Poster Presentation Human Genetics & Genomics Gordon Conference, Bryant University, Smithfield, RI
2013 Invited Speaker and Co-chair of Functional Genomics Session The 4th Annual World DNA and Genome Day, Nanjing, China
2012 Invited Speaker Disappearing Boundaries Summer Research Meeting, Annville, PA
2012 Invited Speaker Lab Day Holy Spirit Hospital, Camp Hill, PA
2010 Invited Speaker The Huntington's Disease Community Meeting, Kutztown, PA
2009 Poster Presentation Biology of Genomes International Meeting, Cold Spring Harbor, NY
2003 Poster Presentation Penn State University Genetics Symposium, Hershey, PA
2003 Invited Speaker, Department of Microbiology and Immunology, Penn State University, Hershey, PA
2001 Poster Presentation Genome Sequencing and Biology International Meeting, Cold Spring Harbor, NY.
2001 Invited Speaker Department of Molecular Biology and Genetics, Cornell University, Ithaca, NY
2001 Invited Speaker Queens University, Kingston, Ontario
2000 Invited Speaker Oklahoma Academy of Science Technical Meeting, Tulsa, OK
1998 Invited Speaker A.I.B.S. Seminar, Saint Joseph's University, Philadelphia, PA

Publications:

Fuesler J., Nagahama Y., Szulewski J., Mundorff J., Bireley S. and Coren JS, 2012. An arrayed human genomic library constructed in the PAC shuttle vector pJCPAC-Mam2 for genome-wide association studies and gene therapy. **Gene** 496: 102-109.

Gundersen, E. and Coren, J, 2007. Generating Nested Deletions in PAC Clones Constructed in pJCPAC-Mam2. **BIOS** 38: 87-94.

Chaterjee, P.K., L.A. Shakes, D.K. Srivastava, D.M. Garland, K.R. Harewood, K.J. Moore and J.S. Coren, 2004. Mutually exclusive recombination of wild-type and mutant loxP sites *in vivo* facilitates transposon-mediated deletions from both ends of genomic DNA in PACs. **NAR** 32:5668-5676.

Chatterjee, P.K., S. Mukherjee, L. Shakes, W. Wilson III, J.S. Coren, K.R. Harewood and G. Boyd, 2004. Selecting transpositions using phage P1 headful packaging: new markerless transposons for functionally mapping long-range regulatory sequences in bacterial artificial chromosomes and P1-derived artificial chromosomes. **Analytical Biochemistry** 335:305-315.

Coren, J.S., and N. Sternberg, 2001. Construction of a PAC vector system for the propagation of genomic DNA in bacterial and mammalian cells and subsequent generation of nested deletions in individual library members. **Gene** 264:11-18.

Chatterjee, P.K., and J.S. Coren. 1997. Isolating large nested deletions in bacterial and P1 artificial chromosomes by *in vivo* P1 packaging of products of Cre-catalyzed recombination between the endogenous and a transposed *loxP* site. **NAR** 25:2205-2212.

Coren, J.S., J.C. Pierce, and N. Sternberg. 1995. Headful packaging revisited: the packaging of more than one DNA molecule into a bacteriophage P1 head. **J. Mol. Biol.** 249:176-184.

Coren, J.S., and V.M. Vogt. 1992. Purification of a telomere-binding protein from *Physarum polycephalum*. **Biochim. Biophys. Acta** 1171:162-166.

Coren, J.S., E.M. Epstein, and V.M. Vogt. 1991. Characterization of a telomere-binding protein from *Physarum polycephalum*. **Mol. Cell. Biol.** 11:2282-2290.

Student Published Abstracts and Presentations

Jessica Manchak and Jonathon Coren. Transfection of a PAC clone containing the p53 gene in the PAC shuttle vector pJCPAC-Mam1 into the KG-1 leukemia cell line for functional studies (poster), March 23, 2013. Tri Beta Northeast District 2 Convention, Lincoln University, Lincoln, PA.

Samantha Neidig, Mina Abdelshahid, Jessica Manchak and Jonathon Coren. Construction of a stable Saos-2 osteosarcoma cell line with a p53-containing PAC clone to study transcription and translation of this gene (poster), March 23, 2013. Tri Beta Northeast District 2 Convention, Lincoln University, Lincoln, PA.

John Fuesler, Laura Wingert, Jessica Manchak and Jonathon Coren. An Arrayed Human Genomic Library Constructed in the PAC Shuttle Vector pJCPAC-Mam2 for Genome-wide Association Studies and Gene Therapy (poster), March 24, 2012. Tri Beta Northeast District 2 Convention, Bloomsburg University, Bloomsburg, PA.

John Fuesler, Yasunori Nagahama, Joseph Szulewski, Joshua Mundorff, Stephanie Bireley and Jonathon Coren. An Arrayed Human Genomic Library Constructed in the PAC Shuttle Vector pJCPAC-Mam2 for Genome-wide Association Studies and Gene Therapy (poster), October 15, 2011. BioTechniques Virtual Symposium: The Genome and Beyond.

Fuesler, J. and J. Coren. Introduction of the p53 gene contained in the PAC shuttle vector pJCPAC-Mam1 into the p53-null Saos-2 osteosarcoma cell line to demonstrate the utility of this human genomic library for functional studies (student talk) 2011. Tri Beta Northeast District 2 Convention, Lincoln University, Lincoln, PA.

Fuesler, J., Peluso, H. and J. Coren. Mutant p53 gene characterization in the Saos-2 human osteosarcoma cell line and subsequent introduction of a wild type p53-containing PAC clone (poster). Tri Beta Northeast District 2 Convention, Lincoln University, Lincoln, PA.

Bireley, S, and J. Coren. An Arrayed Human Genomic Library For Functional Genomic Studies (student talk), 2010. Pennsylvania Academy of Science Meeting, Camp Hill, PA.

Fuesler, J., Bireley, S. and J. Coren. Screening of an Arrayed Human Genomic Library in the PAC Shuttle Vector pJCPAC-Mam2 (poster), 2010. Pennsylvania Academy of Science Meeting, Camp Hill, PA.

Bireley, S., Kochuba, M., Wagner, M. and J. Coren (poster), 2009. Pennsylvania Academy of Science Meeting, Camp Hill, PA.

Bireley, S., Kochuba, M., Wagner, M. and J. Coren (poster), 2009. Beta Beta Beta Regional Convention, Moravian College, Bethlehem, PA.

Kochuba, M., Wagner, M., Nagahama, Y., Bireley, S. and J. Coren (poster), 2008. Beta Beta Beta Regional Convention, Mount Saint Mary's College, Emmittsburg, MD.

Kochuba, M., Wagner, M., Nagahama, Y., Bireley, S. and J. Coren (poster), 2008. Pennsylvania Academy of Science Meeting, Grantville, PA

Nagahama, Y. and J. Coren (student talk), 2007. Pennsylvania Academy of Science Meeting, Monroeville, PA

Nagahama, Y. and J. Coren (student talk), 2007. Beta Beta Beta Regional Convention, Elizabethtown, PA

Hamel, D. and J. Coren (poster), 2006. Pennsylvania Academy of Science Meeting, Grantville, PA.

Burke, R., Nagahama, Y. and J. Coren (student talk), 2006. Pennsylvania Academy of Science Meeting, Grantville, PA.

Burke, R., Nagahama, Y., Hamel, D., Marschner, M., Chandler, W. and J. Coren (poster), 2006. Pennsylvania Academy of Science Meeting, Grantville, PA.

Hamel, D., Alcamo, A. and J. Coren (poster), 2005. Pennsylvania Academy of Science Meeting, Camp Hill, PA.

Gundersen, E. and J. Coren (student talk), 2005. Pennsylvania Academy of Science Meeting, Camp Hill, PA.

Mundorff, J. and J. Coren (student talk), 2005. Pennsylvania Academy of Science Meeting, Camp Hill, PA.

Knauss, C. and J. Coren (poster), 2004. Pennsylvania Academy of Science Meeting, Monroeville, PA.

Szulewski, J., J. Mundorff, A. Prasad, E. Gundersen, C. Knauss, and J. Coren (poster), 2004. Pennsylvania Academy of Science Meeting, Monroeville, PA.

Prasad, A., Howell, K., Gundersen, E., and J. Coren (poster), 2003. Pennsylvania Academy of Science Meeting, Grantville, P

Professional Associations:

American Association for the Advancement of Science

American Association of University Professors

Beta Beta Beta Biological Honor Society

Pennsylvania Academy of Science

Sigma Xi Research Society, St. Joseph's University chapter

Service

Beta House SDLC Advisor, 2011-2012 and 2012-2013

Chicks Against Cancer SDLC Advisor, 2011-2012

Men's Lacrosse Faculty Mentor, 2011-present

Community Engagement Advisory Committee, 2011-2014

Service Learning Committee, 2008-2011

Middle States Assessment Committee, 2007-2008

Advisor of Colleges Against Cancer 2006-2012

Professional Standards Committee, 2006-2009; Chair, 2008-2009

NCAA Faculty Athletics Representative (FAR) 2005-present

Co-advisor of Hillel, 2005-2012

Occasions Committee, 2004-2007

External Grants Committee, 2004-2005

Athletics Committee, 2003-2008

Teaching Evaluation Committee, 2002-2004