

Deborah Bell-Pedersen

Title: Thomas Professor of Biology

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Education: State University of New York at Albany, Albany NY, B.S. (Biology) 1983
State University of New York at Albany, Albany NY, M.S. (Biology) 1987
State University of New York at Albany, Albany NY, Ph.D. (Molecular Biology) 1991

Research and Professional Experience:

1984 - 1991 Graduate Research Assistant, New York State Health Department
1991 - 1997 Postdoctoral Research Fellow, Department of Biochemistry, Dartmouth Medical School
1997 - 2002 Assistant Professor of Biology, Texas A&M University
1997 - present Member of the Genetics Faculty, Texas A&M University
1997 - 2010 Member of the Program for the Biology of Filamentous Fungi (PBoFF), Texas A&M University

1999 - 2001 Advisory Board Member, Journal of Biological Rhythms
2000 - 2003 Co-chair, Neurospora Transcriptional Profiling Working Group
2000 - 2006 Panel Member, NSF Predoctoral Fellowship
2000 - 2001 Panel Reviewer, NASA Life Sciences Grant (Ground and Flight Based)
2000 - 2001 Scientific Session Organizer, Chronobiology and Photobiology, 21st Fungal Genetics Conference

2002 - 2003 Panel Member, OCAST
2002 - 2004 Program Committee Member, Society for Research on Biological Rhythms
2002 - 2006 Elected Member, Neurospora Policy Committee
2002 - 2004 Elected Chair, Neurospora Policy Committee
2003 - 2004 Scientific Meeting Co-Organizer, Neurospora 2004 Meeting
2003 - 2005 NIH Panel Member, Neurogenesis and Cell Fate
2003 - 2007 Associate Professor of Biology, Texas A&M University
2003 - 2007 Member of the Center for Environmental and Rural Health, Texas A&M University
2003 - present Executive Member of the Center for Research on Biological Clocks, Texas A&M University
2004 - 2005 Scientific Session Organizer, Photobiology and Circadian Clocks, 23rd Fungal Genetics Conference

2004 - present Associate Editor, Fungal Genetics and Biology
2004 - 2010 Developed and published a Neurospora Methods Manual
(<http://www.fgsc.net/Neurospora/NeurosporaProtocolGuide.htm>)

2006 - 2009 Special Emphasis Panel Member, NIH Neurogenesis and Cell Fate
2007 - 2010 College of Science Faculty Advisory Committee, Texas A&M University
2007 - 2010 Council of Principal Investigators Executive Committee, Texas A&M University
2007 - present Professor of Biology, Texas A&M University
2008 - 2009 Research Roadmap Committee, Texas A&M University
2008 - 2009 Council of Principal Investigators elected Vice Chair, Texas A&M University
2009 - 2009 Council of Principal Investigators, elected Chair, Texas A&M University
2008 - 2015 Editorial Board, Eukaryotic Cell
2009 - 2010 Co-organizer, 2010 MBI workshop on Circadian Clocks in Plants and Fungi, Ohio State University

2009 Co-organizer, 9th Mycological Congress IMC9: The Biology of Fungi; Edinburg Scotland
 2009 - 2010 Program Committee Member, Society for Research on Biological Clocks
 2009 - 2010 Panel Reviewer, NIH Cell Biology IRG
 2010 - 2011 Invited editor, Special edition of Fungal Genetics and Biology
 2010 - 2014 Panel Member, NIH Cellular Signaling and Regulatory Systems Study Section
 2011 - 2012 Program Committee Chair, Society for Research on Biological Clocks
 2011 - 2015 NSF ADVANCE Speaker Committee, Texas A&M University
 2012 - 2014 Fundraiser, Society for Research on Biological Rhythms
 2013 - 2015 Elected Board Member, Society for Research on Biological Rhythms
 2012 - 2014 Review Editor, Fungal Genetics and Biology
 2014 - 2015 College of Science Dean Search Committee, Texas A&M University
 2014 - present Associate Editor, Journal of Biological Rhythms
 2014 - present Associate Department Head, Biology Department
 2016 - 2018 Panel Reviewer, NIH NIGMS MIRA
 2016 - 2017 Co-organizer, Time of Our Life Symposium, Dartmouth College
 2016 - 2017 Association of Former Students Awards Committee, Texas A&M University
 2017 - present Elected Board Member, Fungal Genetics Policy Committee
 2018 External Program Review, Department of Biology, Texas Tech University
 2018 - 2019 Editor in Chief Search Committee, Journal of Biological Rhythms
 2018 - present NIH P41 Internal Advisory Board, "Resource for Native Mass Spectrometry Guided Structural Biology" OSU, TAMU, and WVU
 2019 - present Director's Award Committee, Society for Research on Biological Rhythms
 2018 - 2020 Co-chair, TAMU Biological Sciences Strategic Planning Team, Texas A&M University
 2018 - present Organizer for Poster Award Judging, Fungal Genetics Society Meetings
 2020 Tenure and Promotion Committee Review, Dean of Faculties, Texas A&M University
 2020 - 2021 Chair, Texas A&M University Professorships Selection Committee
 2020 - 2021 University Professorship Awards Committee, Texas A&M University
 2020 - 2021 Panel Member, NIH NIGMS MIRA CBJ-55
 2020 - present Nominating Committee, Society for Research on Biological Rhythms
 2021 - 2022 Slide Session Organizer and Co-chair, 31st Fungal Genetics Conference
 2022 Travel Award Committee, 31st Fungal Genetics Conference
 2022 Editorial Board Member, Frontiers in Physiology, Chronobiology Specialty Section

Major Awards: Texas A&M University Women Former Students' Network Eminent Scholar Award, 2013 (nominations by TAMU faculty, selected by committee)

Elected Fellow, American Academy of Microbiology, 2014 (nominations by current AAM fellows, selected by committee)

Texas A&M University Association of Former Students Distinguished Achievement Award for Research, 2015 (nominations by TAMU faculty, selected by committee)

Texas A&M University Honorary Professorship, 2019 (nominations by TAMU faculty, selected by committee)

Elected Fellow of the American Association for the Advancement of Science, 2021 (nominations from current AAAS fellows, selected by committee; announced in January 2022)

Other Awards: Student Research Award, American Society for Microbiology, 1990
 Sigma Xi, 1990
 Distinguished Doctoral Dissertation Award, SUNY Albany, 1991

NIH NRSA Postdoctoral Research Fellowship, 1992-1995
 Texas A&M University Howdy Camp Namesake, 2001
 Jo Ann Treat Award for Excellence in Research, Texas A&M Research Foundation, 2005
 Distinguished Achievement Award in Teaching from the Association of Former Students,
 College of Science, Texas A&M University, 2007
 Invited Fellow, Kavli Institute for Theoretical Physics workshop on Biological Switches
 and Clocks, Santa Barbara, CA, 2007
 University Distinguished Lecturer, "How Organisms Tell Time" Texas A&M University,
 2010
 Sigma Xi Distinguished Lecture, Texas A&M University, 2010
 Ethel Ashwood Tsutsui Memorial Award Lecture, Texas A&M University, 2010
 Davidson Award Lecture, Baylor College, 2011
 TAMU ADVANCE Administrative Fellow, 2014-2015
 Biology Department Heroes of the On-line Revolution Award, 2020

Academic Service Committees:

1998 Department of Plant Pathology Fungal Ecology Faculty Search Committee
 1998 - 2000 Program for the Biology of Filamentous Fungi Student Recruiting and
 Admissions Committee Chair
 1998 - 2001 Biology Department Seminar Committee
 1999 - 2001 Genetics Faculty Membership Committee
 1999 - 2004 Judge and Chair for Undergraduate Honors Research Competitions
 Judge for Graduate Student Research Competitions
 2000 - 2006 Biology Graduate Programs Committee Chair
 2000 - 2004 Program in Microbial Genetics and Genomics Student Recruiting and Admissions
 Committee Chair
 2001 - 2003 Biology Department Faculty Search Committee
 2002 - 2004 Department of Plant Pathology Fungal Biology Faculty Search Committee (2 terms)
 2002 - 2008 Genetics Recruiting and Admissions Committee
 2004 Chair Biology Search Committee
 2004 Tenure and Promotion Committee, Brian Shaw Plant Pathology Dept.
 2003 - 2011 Executive Committee, Biology Department, Texas A&M University
 2005 - 2009 Elected Member Council of Principal Investigators, Texas A&M University
 2005 - present Biology Graduate Student Association Faculty Advisor, Texas A&M University
 2006 Biology Department Faculty Search Committee, Texas A&M University
 2007 - 2010 College of Science Faculty Advisory Committee
 2007 - 2010 Council of Principal Investigators Executive Committee
 2008 Department of Biology Prokaryotic Biology Search Committee
 2008 - 2010 Time and Effort Committee
 2008 - 2009 Research Roadmap Committee
 2008 - 2009 Council of Principal Investigators elected Vice Chair
 2009 - 2009 Council of Principal Investigators, elected Chair
 2011 - 2015 Biology Seminar Committee
 2011 - present Biology Dept. Awards Committee, Chair
 2011 - 2015 NSF ADVANCE Speaker Committee
 2013 - 2021 Biology Dept. Annual Review Committee, Chair
 2013 - 2016 Biology Dept. Executive Committee
 2014 - 2015 College of Science Dean Search Committee
 2014 - present Faculty Mentor, 6 Biology Assistant Prof., 1 Biology Associate Prof., and
 1 APT faculty
 2016 - 2017 Faculty of Genetics Interdisciplinary Program Membership Committee
 2016 - 2017 Association of Former Students Awards Committee
 2017 - 2018 Executive Committee Faculty of Genetics Interdisciplinary Program

2017 RetainU Faculty Mentor, College of Science 2018 AFS Guidelines Committee Member
 2018 - 2020 Co-chair TAMU Biological Sciences Strategic Planning Team
 2020 - 2021 Texas A&M University Professorships Selection Committee, Chair
 2020 Chemistry Department Strategic Planning Committee, Member
 2020 Tenure and Promotion Committee Review, Dean of Faculties
 2020 - 2021 University Professorship Awards Committee
 2020 - 2021 Biology Building Planning Committee
 2020 - 2021 Biology Department Faculty Search Committee, Chair
 2020 - present Biology Department SOAR Committee, Chair

Teaching:

New Courses Developed

BIOL 682 1 cr Graduate Student Research Seminar Series
 BIOL 601 3 cr Biological Clocks
 BIOL 491 3 cr Fungal Functional Genomics Research Lab (with Dr. Matthew Sachs)
 BIOL 489 3 cr Biological Clocks

Courses Taught

MICR 445 3 cr The Biology of Viruses
 BIOL 681-602 1 cr Seminar in Departmental Colloquium
 BIOL 681-604 1 cr Seminar in Circadian Clocks
 MICR 614 3 cr Microbial Development
 MICR 689-602 3 cr Special Topics in Signaling
 BIOL489 3 cr Biological Clocks
 BIOL 601 3 cr Biological Clocks
 MICR 351 3 cr Microbiology

Leadership Positions:

2003 - present Executive Member of the Center for Research on Biological Clocks, TAMU

2008 - 2009 Council of Principal Investigators (CPI) Vice Chair and Chair.

2011-present I have held several leadership positions in the Society for Research on Biological Rhythms (SRBR) and the Fungal Genetics Society, with a mission of increasing diversity in the field. I was the program director for the 2012 biannual SRBR Meeting, and in this role, I emphasized diversity in the speakers for the plenary and concurrent sessions. While serving on the SRBR board, I initiated an awards program to recognize the achievements of junior faculty in the field. I also served as co-chair of the 2017 biannual Fungal Genetics meeting, and again I emphasized representation of women and minorities speaking at the meeting. In addition, I established training workshops and mixers for our students and postdocs. I now serve as an elected board member of the Fungal Genetics Policy Committee.

2014-2015 TAMU ADVANCE Fellow. I was selected as an ADVANCE Administrative Fellow, which was a program to help women in STEM fields succeed in administrative positions.

2014 - 2021 Associate Department Head of Operations, Biology Department

I developed and oversaw our faculty mentoring program, which assists junior and mid-career faculty. I chaired our Tenure and Promotion and Annual Review Committees. I also started a Microbiology Masters Program with opportunities for internships in companies to help students interested in careers in Biotechnology, or to help prepare students for medical and other professional schools. I also served as the co-Chair of the Biology Strategic Planning committee to develop an aggressive 10 year hiring plan, and a new Biology Building that was approved by the upper administration.

2015-2018 Executive Member of the Interdisciplinary Program in Genetics and Genomics TAMU

2021 – 2022 Associate Department Head for Research. Implementation of the Biology Strategic Plan and to identify new resources for the department to support the research infrastructure.

Research Support:

Current Funding

NIH GM R35 GM126966 (Bell-Pedersen, PI)

05/01/18-04/30/23

Mechanisms of Circadian Clock Control of mRNA Translation

Annual Direct/Year \$487,872

This grant combined 3 NIH grants into a MIRA award.

The major goals of this project are to determine the fundamental mechanisms for how the clock controls rhythms in mRNA translation initiation and ribosome composition, and the impact of this regulation on rhythmic gene expression.

Anthony Woods Gift Funds

01/01/2022-12/31/2025

Initial Gift Funds \$500,000

The goal of this funding is to identify new therapies for jetlag, metabolic disorder, and aging associated with the circadian clock by manipulating circadian amplitude.

Environmental Molecular Sciences Laboratory (Glass, PI; Bell-Pedersen, collaborator)

10/01/20 – 09/30/22

Nuclear cooperation, sharing of public goods and coordination of plant biomass utilization: probing functions unique to multinucleate syncytial fungi.

This grant provides support to EMSL/Pacific Northwest Laboratory and the Joint Genome Institute to determine how multinucleate fungal hyphae in a colony coordinate metabolism and growth in the organism. Techniques to analyze the distribution of mRNA, proteins, and metabolites in a colony will be developed to allow determination of the fundamental mechanisms that allow adaptation of a colony to different environments across space and time.

Past Funding:

08/01/18-07/31/19	NIH/GM R35 GM126966 Administrative Supplement (Bell-Pedersen, PI) Mechanisms of Circadian Clock Control of mRNA Translation Direct \$58,209
08/01/99-07/31/19	NIH/GM R01 GM058529 (Bell-Pedersen, PI) <i>Molecular Genetic Analysis of Fungal Circadian Rhythms</i> Annual Direct \$237,500
01/01/15-12/31/19	NIH/GM R01 GM113673 (Bell-Pedersen, PI) <i>Systems Biology of the Circadian Clock Output Network</i> (coPI James Galagan, Boston University) Annual Direct \$326,596
01/15/18-01/14/19	CoS STRP (Bell-Pedersen, PI) Chronotherapeutics in glioblastoma: leveraging circadian rhythms in p38 MAPK activity Total Direct \$50,000
08/01/16-07/31/17	NIH/GM R01 GM058529 Administrative Supplement (Bell-Pedersen, PI) <i>Molecular Genetic Analysis of Fungal Circadian Rhythms</i> Direct \$28,175
08/01/16-07/31/17	NIH/GM R01 GM113673 Administrative Supplement (Bell-Pedersen, PI) <i>Systems Biology of the Circadian Clock Output Network</i>

7/01/13 – 4/30/18 Annual Direct \$71,657
NIH/GM R01 GM106426 (Bell-Pedersen, PI)
Determining the Mechanism of Temperature Compensation of the Circadian Clock

10/01/15-9/30/17 JGI-EMSL Collaborative Science Initiative (JECSI)
Specialized Ribosomes: A New Frontier in Gene Regulation

9/01/16-8/31/17 TAMU Strategic Areas Interdisciplinary Research Seed Grants
New tools for mining transcriptomics data: Identification of light- and clock-regulated.

09/01/10-08/31/15 NSF DUE (J. Walton, PI)
UBM Integrated Undergraduate Research Experiences in Biological and Mathematical Sciences
Co-PIs Deborah Bell-Pedersen, A. Dabney, M. Fujiwara, K. Fu, M. Boggess

04/01/09-03/31/15 NIH P01 GM068087 (Dunlap, PI)
Functional Analysis and Systems Biology of Filamentous Fungi
Co-PIs Katherine A. Borkovich, James Galagan, Louise N. Glass, Heather Hood, Stephen Osmani, Michael Plamann, Matthew Sachs, Eric Selker, Jeffery Townsend, Deborah Bell-Pedersen, Michael Freitag.

7/1/00 – 6/30/12 NIH/NINDS PO1 HL114576
Coordination of Circadian Physiology of Diverse Species.
PI Deborah Bell-Pedersen, Co-PI's Vincent Cassone, Susan Golden, David Earnest, Terry Thomas, and Mark Zoran.

09/01/04-03/31/06 Center for Environmental and Rural Health Pilot Program, Texas A&M University
A Circadian-Based Approach to Treating Aspergillus
PI Deborah Bell-Pedersen

3/30/99 - 3/30/00 Interdisciplinary Research Initiative Grant, Texas A&M University.
Determination of Fungal Mating Pheromone Response and Function.
Co-PI's Daniel Ebbole and Neal VanAlfen.

2001 Life Sciences Research Instrumentation. Texas A&M University 2001.
Deborah Bell-Pedersen, PI

Past Trainer for the following:

2000-2003 Life Sciences Training Program, Texas A&M University
Development of the Graduate Program in Microbial Genetics and Genomics.
Jim Hu, PI.

2001-2003 Life Sciences Training Program, Texas A&M University
Biological Clocks Training Program.
Vincent Cassone, PI.

Invited Seminars (from 1998)

1998 6th Meeting of the Society for Research on Biological Rhythms, Amelia Island, FL
6th International Mycological Congress, Jerusalem, Israel
Genetics Department, Texas A&M University
Heart of Texas Microbiology Meeting, UT Houston Medical School
Lost Pines Molecular Biology Conference, Bastrop TX
Southeastern Texas Clocks Meeting, College Station, TX

1999 British Mycological Society: Sensory responses of fungi. Manchester, U.K.
Gordon Conference on Chronobiology, Barga Italy
International Congress on Chronobiology, Washington DC

PBoFF Symposium, Texas A&M University
 20th Fungal Genetics Conference, Asilomar, CA
 University of Texas, Houston Medical School
 2000 University of Houston, Department of Biology and Biochemistry
 Mycological Society of America, Burlington VT
 Neurospora 2000, Asilomar, CA
 Complex Clocks, Edinburgh Scotland
 2001 Department of Plant Pathology and Microbiology, Texas A&M University
 Genomics in Neurospora, Albuquerque, NM
 Chronobiology Gordon Conference, Newport RI
 21st Fungal Genetics Conference, Asilomar CA
 University of Texas, Houston, Microbiology and Molecular Genetics Department
 2002 8th Meeting of the Society for Research on Biological Rhythms, Amelia Island FL
 Neurospora 2001, Asilomar, CA
 PBoFF Symposium, Texas A&M University
 Southeastern Texas Clocks Meeting, Houston, TX
 SUNY Plattsburg, Plattsburg, NY, Biology Dept.
 Southwestern University, TX
 Regional Mycology Meeting, San Antonio TX
 Neurospora Sequence Analysis Workshop, Whitehead Institute MIT, Boston
 2003 University of Oklahoma, Dept of Zoology
 University of Wisconsin, Madison, Dept of Plant Pathology
 22nd Fungal Genetics Conference, Asilomar, CA
 Bradley University, Biology Department
 Texas A&M University, Department of Chemistry
 2004 9th Meeting of the Society for Research on Biological Rhythms, Amelia Island FL
 2005 Chronobiology Gordon Conference, Newport RI
 University of Michigan, East Lansing, Dept of Plant Pathology
 University of Oregon, Corvallis, Institute of Molecular Biology
 National Academy of Science 17th Annual Frontiers of Science Symposium, Irvine CA
 2006 University of Virginia, Dept of Biology Charlottesville VA Invited by Graduate Students
 UCLA, Los Angeles CA, Department of Chemistry and Biochemistry
 2007 XXIII Fungal Genetics Conference in 2007, Invited Plenary Speaker
 Cold Spring Harbor Symposium on Quantitative Biology May 30-June 4,
 KALVI Institute for Theoretical Physics –Clocks and Switches 3 weeks, July 2007
 University of Stavanger, Norway
 University of Oregon, Biochemistry Dept
 2008 York University
 Session Organizer, Fungal Genetics Gordon Conference Neurospora 2008, Asilomar CA
 2009 Plant Sensing, Response and Adaptation to the Environment, Keystone Meeting, MO
 Fungal Genetics Meeting, Asilomar, CA.
 Rice University, Biochemistry Dept
 Frontiers in Fungal Biology, Ensenada Mexico
 2010 Neurospora Meeting, Asilomar CA IMC9, Edinburgh Scotland
 2011 Chronobiology Gordon Conference, Barga Italy
 UCSD, Chronobiology Conference
 2012 Neurospora 2012, Asilomar CA
 Jenelia Farms, Chronobiology

Molecular and Cellular Fungal Biology Gordon Conference
 EMSL, Pacific Northwest Labs
 University of Georgia, Dept. of Microbiology
 2013 Albert Einstein College of Medicine, Dept. of Genetics
 Virginia Tech, Molecular Cell Biology and Biotechnology
 UT Houston, Dept. of Biochemistry
 State University of New York at Albany
 2014 Society for Research on Biological Rhythms Meeting, Big Sky MT
 2015 University of Delaware
 CSH Asia Clock Meeting, Shouzhou China
 2016 Neurospora 2016, Asilomar CA
 Genetics Program, TAMU
 Society for Research on Biological Rhythms Meeting, Tampa FL
 TAMU Math Conference
 2017 North Carolina State, Biochemistry Dept.
 ASM Meeting, New Orleans
 European Microbiology Meeting, Edinburgh Scotland
 Fungal Stress Response Conference, Brazil
 Chronobiology Gordon Conference Discussion Leader, Stowe VT 2018
 Photosensory Receptors and Signal Transduction GRC, Barga Italy
 Virginia Tech University, Biology Dept
 University of Pennsylvania, Center for Sleep and Neurobiology Invited Seminar
 Society for Research on Biological Rhythms Meeting, Amelia Island, FL
 Neurospora Meeting, Asilomar CA
 2019 International Symposium on Fungal Stress, Brazil
 2020 Oregon State University, Biochemistry and Biophysics, Corvallis OR
 Texas A&M University, Biology Dept.
 2021 Neurospora Meeting, Camp Allen Texas
 2022 University of California at Berkeley, Microbiology
 Fungal Genetics Conference, Asilomar CA
 Texas A&M University Biochemistry Department
 Photosensory Receptors and Signal Transduction GRC
 European Biological Rhythms Society Meeting, Presidential Symposia Speaker,
 Zurich Switzerland

Professional Affiliations:

American Association for the Advancement of Science
 Society for Research on Biological Rhythms (SRBR)
 Genetics Society of America (GSA)
 American Society for Microbiology (ASM)

Refereed Publications: Google Scholar h-index 42; i10 59 (Deborah Bell-Pedersen's graduate students underlined, postdoctoral students in italics, and undergraduate students in bold)

- 1) Gott, J.M., Zeeh, A., Bell-Pedersen, D., Ehrenman, K., Belfort, M., and Shub, D.A. (1988) Genes within genes: Independent expression of phage T4 intron ORF's and the genes in which they reside. *Genes Devel.* 2: 1791-1799.
- 2) Quirk, S.M., Bell-Pedersen, D., Tomaschewski, J., Ruger, W., and Belfort, M. (1989) The inconsistent distribution of introns in the T-even phages indicates recent genetic exchanges. *Nucl. Acid. Res.* 17: 301-325.

- 3) Quirk, S.M., Bell-Pedersen, D., and Belfort, M. (1989) Intron mobility in the T-even phages: High frequency inheritance of group I introns promoted by intron open reading frames. *Cell* 56: 455-465. *The first two authors contributed equally to this study.
- 4) Bell-Pedersen, D., Quirk, S.M., Aubrey, M., and Belfort, M. (1989) A site-specific endonuclease and coconversion of flanking exons associated with the mobile *td* intron of phage T4. *Gene* 82: 119-126.
- 5) Bell-Pedersen, D., Quirk, S.M., Clyman, J., and Belfort, M. (1990) Intron mobility in phage T4 is dependent upon a distinctive class of endonucleases and independent of DNA sequences encoding the intron core: mechanistic and evolutionary implications. *Nuc. Acid. Res.* 18: 3763-3770.
- 6) Bell-Pedersen, D., Quirk, S.M., Bryk, M., and Belfort, M. (1991) I-*TevI* endonuclease encoded by the mobile *td* intron recognizes binding and cleavage domains on its DNA target. *Proc. Natl. Acad. Sci. USA* 88: 7719-7723.
- 7) Bell-Pedersen, D., Galloway, J.G.S., and Belfort, M. (1991) A transcriptional terminator in the *thyA* structural gene of *Escherichia coli* and construction of a viable *thyA::KmR* deletion. *J. Bact.* 173: 1193-1200.
- 8) Bell-Pedersen, D., Dunlap, J.C., and Loros, J.J. (1992) The *Neurospora* circadian clock-controlled gene, *ccg-2*, is allelic to *eas* and encodes a fungal hydrophobin required for formation of the conidial rodlet layer. *Genes Devel.* 6: 2382-2394.
- 9) Dunlap, J.C., Loros, J.J., Aronson, B.D., Johnson, K.A., Liu, Q., Lindgren, K.M., Bell-Pedersen, D., Garceau, N. (1994) Genetic and Molecular Analysis of the *Neurospora* Clock. *Brain Res. Reviews* 18: 329-330.
- 10) Bell-Pedersen, D., Shinohara, M., Loros, J.J., and Dunlap, J. (1996) Clock-controlled genes isolated from *Neurospora crassa* are late night- to morning-specific. *Proc. Natl. Acad. Sci. USA*. 93: 13096-13101.
- 11) Bell-Pedersen, D., Dunlap, J.C., and Loros, J.J. (1996) Distinct cis-acting elements mediate clock, light and developmental regulation of the *Neurospora crassa eas (ccg-2)* gene. *Mol. Cell. Biol.* 16: 513-521.
- 12) Bell-Pedersen, D., Garceau, N., and Loros, J.J. (1996) Circadian rhythms in fungi. *J. Genet.* 75: 387-401.
- 13) Loros, J.J., Dunlap, J.C., Crosthwaite, S., Bell-Pedersen, D., Garceau, N., Shinohara, M., Cho, H. (1996) Light responsive genes, and the mechanism of the circadian clock in *Neurospora*, in Landmarks in Photobiology from Proceedings of the 12th International Congress on Photobiology: 129-133.
- 14) Bell-Pedersen, D. (1998) Keeping pace with *Neurospora* circadian rhythms. *Microbiology* 144: 1699-1711.
- 15) Bell-Pedersen, D. (2000) Circadian rhythmicity in *Neurospora crassa*. *Fungal Genet. Biol.* 29: 1-18.
- 16) Bell-Pedersen, D., Crosthwaite, S.K., Lakin-Thomas, P.L., Merrow, M., Vinsjevnik, M. (2001) The *Neurospora* circadian clock-simple or complex. *Philos. Trans. R. Soc. Lond.* 356: 1697-1709.
- 17) Morgan, L., Feldman, J., and Bell-Pedersen, D. (2001) Genetic interactions between clock mutations in *Neurospora crassa*: can they help us to understand complexity. *Philos. Trans. R. Soc. Lond.* 356: 1717-1724.
- 18) Bell-Pedersen, D., Lewis, Z.A., Loros, J.J., and Dunlap, J.C. (2001) The *Neurospora* circadian clock regulates a transcription factor that controls rhythmic expression of the output *eas(ccg-2)* gene. *Mol. Micr.* 41: 897-909.
- 19) Shrode, L., Lewis, Z.A., White, L.C., Bell-Pedersen, D., Ebbole, D.J. (2001) *vvd* is required for light adaptation of conidiation-specific genes of *Neurospora crassa*, but not circadian conidiation. *Fungal Genet. Biol.* 32: 169-181.
- 20) Zhu, H., Nowrousian, M., Kupfer, D., Colot, H.V., Berrocal-Tito, G., Bell-Pedersen, D.,

- Roe, B., Loros, J.J., and Dunlap, J.C. (2001) Analysis of ESTs from two starvation time of day-specific libraries of *Neurospora crassa* reveals novel clock-controlled genes. *Genetics* 157: 1057-1065.
- 21) Correa, A., and Bell-Pedersen, D. (2002) Distinct signaling pathways from the circadian clock participate to regulate rhythmic conidiospore development in *Neurospora crassa*. *Euk. Cell* 1: 273-280.
 - 22) Shinohara, M.L., Correa, A., Bell-Pedersen, D., Dunlap, J.C., and Loros, J.J. (2002) *Neurospora clock-controlled gene-9 (ccg-9)* encodes trehalose synthase: Circadian regulation of stress responses and development. *Euk. Cell* 1: 33-43.
 - 23) Bobrowicz, P., Pawlak, R., Correa, A., Bell-Pedersen, D., and Ebbole, D. (2002) The *Neurospora crassa* pheromone precursor genes are regulated by the mating type locus and the circadian clock. *Mol. Micro.* 45: 795-804.
 - 24) Lewis, Z.A., Correa, A., Schwerdtfeger, C., Link, K., Xie, X., Gomer, R., Thomas, T., Ebbole, D., and Bell-Pedersen, D. (2002) Overexpression of WHITE COLLAR-1 (WC-1) activates circadian clock-associated genes, but is not sufficient to induce most light-regulated gene expression in *Neurospora crassa*. *Mol. Micro.* 45: 917-931.
 - 25) Greene, A.V., Keller, N., Haas, H., and Bell-Pedersen, D. (2003) A circadian oscillator in *Aspergillus spp.* regulates daily development and gene expression. *Euk. Cell* 2: 231-237.
 - 26) Morgan, L., Greene, A.V., and Bell-Pedersen, D. (2003) Circadian and light-induced expression of luciferase in *Neurospora crassa*. *Fungal Genet. Biol.* 38: 327-332.
 - 27) Galagan, J., Calvo, S.E., Borkovich, K., Selker, E., Read, N., FitzHugh W., Ma, L-M., Smirnov S., Purcell S., Rehman, B., Elkins, T., Engels, R., Wang, S., Nielsen, C.B., Roy, A., Ianakiev, P., Davis, R., Nelson, M.A., Werner-Washburne, M., Mewes, W., Kinsey, J., Braun, E., Zelter, A., Shulte, U., Kothe, G., Jedd, G., Bell-Pedersen, D., Staben, C., Marcotte, E., Greenberg, D., Selitrennikoff, C.P., Foley, K., Naylor, J., Stange-Thomann, N., Barrett, R., Butler, J., Gnerre, S., Jaffe, D., Qui, D., Kamvysselis, M., Kamal, M., Metzner, R., Perkins, D., Dunlap, J.C., Glass, L., Yarden, O., Plamann, M., Seiler, S., Radford, A., Orbach, M., Berglund, J.A., Voelker, R., Mannhaupt, G., Natvig, D., Aramayo, R., Ebbole, D., Freitag, M., Paulsen, I., Sachs, M., Lander, E.S., Nusbaum, C., and Birren, B. (2003) The genome sequence of the filamentous fungus *Neurospora crassa*. *Nature* 422: 859-869.
 - 28) Bailey, M.J., Beremand, P.D., Hammer, R., Bell-Pedersen, D., Thomas, T.L., and Cassone, V.M. (2003) Transcriptional profiling of the chick pineal gland, a photoreceptive circadian oscillator and pacemaker. *Mol. Endocrinol.* 17: 2084-2095.
 - 29) Correa, A., Lewis, Z.A., Greene, A.V., March I.J., Gomer, R., and Bell-Pedersen, D. (2003) Microarray profiling reveals multiple oscillators regulate circadian gene expression in *Neurospora*. *Proc. Natl. Acad. Sci. USA.* 100: 13597-602.
 - 30) Vitalini, M., Morgan, L., March, I.J., and Bell-Pedersen, D. (2004) A genetic selection for circadian output pathway (cop) mutations in *Neurospora crassa*. *Genetics* 167: 119-29.
 - 31) Borkovich, K.A., Alex, L.A., Yarden, O., Freitag, M., Turner, G.E., Read, N.D., Seiler, S., Bell-Pedersen, D., Paietta, J., Plesofsky, N., Plamann, M., Goodrich-Tanrikulu, M., Schulte, U., Mannhaupt, G., Nargang, F.E., Radford, A., Selitrennikoff, C., Galagan, J.E., Dunlap, J.C., Loros, J.J., Catcheside, D., Inoue, H., Aramayo, R., Polymenis, M., Selker, E.U., Sachs, M.S., Marzluf, G.A., Paulsen, I., Davis, R., Ebbole, D.J., Zelter, A., Kalkman, E., O'Rourke, R., Bowering, F., Yeadon, J., Ishii, C., Suzuki, K., Sakai, W., and Pratt, R. (2004) Lessons from the genome sequence of *Neurospora crassa*: Tracing the path from genomic blueprint to multicellular organism. *MMBR* 68: 1-108.
 - 32) Xie, X., Wilkinson, H.H., Correa, A., Lewis, Z.A., Bell-Pedersen, D., and Ebbole, D.J. (2004) Transcriptional response to glucose starvation and functional analysis of a glucose transporter in *Neurospora crassa*. *Fungal Genet. Biol.* 41(12):1104-19.
 - 33) Allen, G.C., Farnell, Y., Bell-Pedersen, D., Cassone, V.M., and Earnest, D.J. (2004)

- Effects of altered Clock gene expression on the pacemaker properties of SCN2.2 cells and oscillatory properties of NIH/3T3 cells. *Neuroscience*. 127(4): 989-99.
- 34) Pregueiro, A.M., Price-Lloyd, N., Bell-Pedersen, D., Heintzen, C., Loros, J.L., and Dunlap, J.C. (2005) Assignment of an essential role for the *Neurospora frequency* gene in circadian entrainment to temperature cycles. *Proc. Natl. Acad. Sci. USA* 102: 2210-2215.
 - 35) Bell-Pedersen, D., Cassone, V.M., Earnest, D.J., Golden, S.S., Hardin, P.E., Thomas, T.L., and Zoran, M.J. (2005) Circadian rhythms from multiple oscillators: lessons from diverse organisms. *Nat. Rev. Genet.* 6: 544-556.
 - 36) Galagan, J.E., Calvo, S.E., Cuomo, C., Ma, L.-J., Wortman, J., Batzoglou, S., Lee, S.-I., Baştürkmen, M., Spevak, C.C., Clutterbuck, J., Kapitonov, V., Jurka, J., Scazzocchio, C., Farmam, M., Butler, J., Purcell, S., Harris, S., Braus, G.H., Draht, O., Busch, S., D'Enfert, C., Bouchier, C., Goldman, G.H., Bell-Pedersen, D., Griffiths-Jones, S., Doonan, J.H., Yu, J., Vienken, K., Pain, A., Freitag, M., Selker, E.U., Archer, D.B., Peñalva, M.A., Oakley, B.R., Momany, M., Tanaka, T., Kumagai, T., Asai, K., Machida, M., Nierman, W.C., Denning, D.W., Caddick, M., Hynes, M., Paolett, M., Fischer, R., Miller, B., Dyer, P., Sachs, M.S., Osmani, S.A., and Birren, B. (2005) Sequencing of *Aspergillus nidulans* and Comparative Analysis with *A. fumigatus* and *A. oryzae*. *Nature* 438: 1105-1115.
 - 37) de Paula, R., Lewis, Z.L., Greene, A., Seo, K.S., Vitalini, M., Morgan, L., Bennett, L., Gomer, R.H., and Bell-Pedersen, D. (2006) Two circadian timing circuits in *Neurospora crassa* cells share components and regulate distinct rhythmic processes. *J. Biol. Rhythms* 21:159-68.
 - 38) Liu, Y., and Bell-Pedersen, D. (2006) Circadian rhythms in *Neurospora* and other filamentous fungi. *Euk. Cell*, 5:1184-1193.
 - 39) Vitalini, M.W., dePaula, R.M., and Bell-Pedersen, D. (2006). The rhythms of life: circadian output pathways in *Neurospora*. *J. Biol. Rhythms* 21: 432-444.
 - 40) dePaula, R.M., Vitalini, M.W., Gomer, R.H., and Bell-Pedersen, D. (2007) Complexity of the *Neurospora crassa* circadian clock system: Multiple loops and oscillators. *Cold Spring Harbor Symposia on Quantitative Biology: Clocks and Rhythms, Volume 72*:345-51.
 - 41) Vitalini, M.W., dePaula, R., Goldsmith, C., Jones, C., Borkovich, K., and Bell-Pedersen, D. (2007) Circadian rhythmicity mediated by temporal regulation of the activity of a p38 MAPK. *Proc. Natl. Acad. Sci USA* 104(46):18223-8.
 - 42) dePaula, R.M., Lamb, T.M., Bennett, L., and Bell-Pedersen, D. (2008) A connection between MAPK pathways and circadian clocks. *Cell Cycle* 7:2630-4.
 - 43) Bell-Pedersen, D., and Borkovich, K.A. (2009) The 2009 George W. Beadle Award, Jay C. Dunlap. *Genetics* 181: 831-833.
 - 44) Smith, K.M., Sancar, G., Dekhang, R., Sullivan, C.M., Li, S., Bredeweg, E.L., Priest, H., McCormick, R.F., Tag, A., Thomas, T., Sancar, C., Carrington, J.C., Bell-Pedersen, D., Brunner, M., Stajich, J.E., and Freitag, M. (2010) Transcription factors in light and circadian clock signaling networks revealed by genomewide mapping of direct targets for *Neurospora* White Collar complex. *Euk. Cell* 9: 1549-1556.
 - 45) Bell-Pedersen, D. (2010) Fungal Photobiology, Introduction. *Fungal Genet. Biol.* 47(11):879-80.
 - 46) Lamb, T.M., Goldsmith, C.S., Bennett, L., **Finch, K.E.**, and Bell-Pedersen D. (2011) Direct transcriptional control of a p38 MAPK pathway by the circadian clock in *Neurospora crassa*. *PLoS One* 6(11): e27149.
 - 47) Lakin-Thomas P.L., Bell-Pedersen D., and Brody S. (2011) The genetics of circadian rhythms in *Neurospora*. *Adv. Genet.* 74: 55-103.
 - 48) Lamb, T.M., **Finch, K.E.**, and Bell-Pedersen, D. (2012) The *Neurospora crassa* OS MAPK pathway-activated transcription factor ASL-1 functions to generate circadian rhythms in pathway responsive clock-controlled genes. *Fungal Genet. Biol.* 49(2): 180-18.
 - 49) Bennett, L.D., Beremand, P., Thomas T.L., and Bell-Pedersen, D. (2013) Circadian

- activation of the mitogen-activated protein kinase MAK-1 facilitates rhythms in clock-controlled genes in *Neurospora crassa*. *Euk. Cell* 12: 59-69.
- 50) Lamb, T.M., Vickery, J., and Bell-Pedersen, D. (2013). Regulation of gene expression in *Neurospora crassa* with a copper responsive promoter. *G3*. 3: 2273-2280.
 - 51) Goldsmith, C.S., and Bell-Pedersen, D. (2013) Diverse roles for MAPK signaling in circadian clocks. *Adv. Genet.* 84: 1-39.
 - 52) Wu, C., Yang, F., Smith K.M., Petersen, M., Dekhang, R., Zhang, Y., Zucker, J., Bredeweg, E.L., Mallappa, C., Zhou, X., Townsend, J.P., Galagan, J.E., Freitag, M., Dunlap, J.C., Bell-Pedersen, D., and Sachs, M.S. (2014) Genome-wide characterization of light-regulated genes in *Neurospora crassa*. *G3* 4: 1731-1745.
 - 53) Hurley J.M., Dasgupta, A., Emerson, J.M., Zhou, X., Ringelberg, C.S., Knabe, N., Lipzen, A., Lindquist, E., Daum, C., Barry, K., Grigoriev, I.V., Smith, K., Galagan, J., Bell-Pedersen, D., Freitag, M., Cheng, C., Loros, J.J., and Dunlap J.C. (2014) Analysis of clock regulated genes in *Neurospora* reveals widespread post-transcriptional control of metabolic potential. *Proc. Natl. Acad. Sci USA* 111: 16995-17002.
 - 54) Nsa I., Karunarathna, N., Liu, X., Huang, H., **Boettger, B.**, and Bell-Pedersen, D. (2015) A novel cryptochrome-dependent oscillator in *Neurospora crassa*. *Genetics* 199: 233-245.
 - 55) Caster, S.Z., Castillo, K., Sachs, M.S., and Bell-Pedersen, D. (2016) Circadian clock regulation of mRNA translation through eukaryotic elongation factor eEF-2. *Proc. Natl. Acad. Sci USA*. 113: 9605-9610.
 - 56) Dekhang, R., Wu, C., Smith, K.M., Lamb T.M., Petersen, M., Bredeweg, E., Ibarra O., Emerson, J.M., Karunarathna, N., Lyubetskaya, A., Azizi, E., Hurley, J.M., Dunlap, J.C., Galagan, J., Freitag, M., Sachs, M.S., and Bell-Pedersen, D. (2017) The *Neurospora* transcription factor ADV-1 transduces light signals and temporal information to control rhythmic expression of genes involved in cell-fusion. *G3* 7:129-142.
 - 57) Ivanov I., Wei J., Caster S. Z., Smith, K., Michel, A., Zhang, Y., Firth A., Freitag, M., Dunlap, J.C., Bell-Pedersen, D., Atkins, A., and Sachs, M.S. (2017) Translation initiation from conserved non-AUG codons provides additional layers of regulation and coding capacity. *mBio*. 8: 844-817.
 - 58) Hughes M.E., Allada, R., Anafi, R., Arpat, A.B., Asher, G., Baldi, P., de Bekker, C., Bell-Pedersen, D., Blau, J., Brown, S., Ceriani, M.F., Chen, Z., Chiu, J., Cox, J., Crowell, A.M., Dijk, D.J., DiTacchio, L., Duffield, G.E., Dunlap, J.C., Eckel-Mahan K., Esser, K.A., Gachon, F., Gatfield, D., de Goede, P., Golden, S.S., Green, C., Harer, J., Harmer, S., Haspel, J., Hastings, M.H., Herzog, H., Herzog E.D., Hoffmann, C., Hong, C., Hughey, J.J., Hurley, J.M., Johnson, C., Kay, S.A., Koike, N., Kornacker, K., Kramer, A., Lamia, K., Leise, T., Lewis, S.A., Li, J., Li, X., Liu, A.C., Loros, J.J., Martino, T.A., Menet, J.S., Mellow, M., Millar, A.J., Mockler, T., Naef, F., Nagoshi, E., Nitabach, M.N., Olmedo M., Nusinow, D.A., Rand, D., Reddy, A.B., Robles, M.S., Roenneberg, T., Rosbash, M., Rund, S.S.C., Sassone-Corsi, P., Sehgal, A., Sherrill-Mix, S., Skene, D.J., Storch, K.F., Takahashi, J.S., Ueda, H.R., Weitz, C., Westermarck, P., Wijnen, H., Wu, G., Yoo, S.H., Young, M., Zielinski, T., and Hogenesch, J.B. (2017) Guidelines for genome-scale analysis of biological rhythms. *J. Biol. Rhythms* 32:380-393.
 - 59) Wu, C., Dasgupta, A., Shen, L., Bell-Pedersen, D., and Sachs, M (2018) The cell free protein synthesis system from the model filamentous fungus *Neurospora crassa*. *Methods* S1046-2023.
 - 60) Goldsmith, C.S., Kim, S.M., Karunarathna, N., Farnell, Y., Neuendorff, N., Toussaint, L.G., Earnest, D.E., and Bell-Pedersen, D. (2018) Inhibition of p38 MAPK activity leads to cell type-specific effects on the molecular circadian clock and time-dependent reduction of glioma cell invasiveness. *BMC Cancer* 18: 43.
 - 61) Baek, M., Virgilio, S., Lamb, T.M., Ibarra, O., Andrade, J.M., Bell-Pedersen, D., Bertolini, M.C., and Hong, C. (2019) Circadian clock regulation of the glycogen synthase (*gsn*) gene

by the transcription factor WCC is critical for rhythmic glycogen metabolism in *Neurospora crassa*. Proc. Natl. Acad. Sci. USA 116: 10435-10440.

- 62) Karki, S., Castillo, K., Ding, Z., Kerr, O., Lamb, T.M., Wu, C., Sachs, M.S., and Bell-Pedersen, D. (2020) Circadian clock control of eIF2- α phosphorylation is necessary for rhythmic translation initiation. Proc. Natl. Acad. Sci. USA 117: 10935-10945.
- 63) Alder-Rangel, A., Idnurm, A., Brand, A.C., Brown, A.J.P., Gorbushina, A., Kelliher, C.M., Campos, C.B., Levin, D.E., Bell-Pedersen, D., Dadachova, E., Bauer, F.F., Gadd, G.M., Braus, G.H., Braga, G.U.L., Brancini, G.T.P., Walker, G.M., Druzhinina, I., Pócsi, I., Dijksterhuis, J., Aguirre, J., Hallsworth, J.E., Schumacher, J., Wong, K.H., Selbmann, L., Corrochano, L.M., Kupiec, M., Momany, M., Molin, M., Requena, N., Yarden O., Cordero, R.J.B., Fischer, R., Pascon, R.C., Mancinelli, R.L., Emri, T., Basso, T.O., and Rangel, D.E.N. (2020) The third international symposium on fungal stress – ISFUS. Fungal Biol. 124(5): 235-252.
- 64) Greenwell, B.J., Beytebiere, J.R., Lamb, T.M., Bell-Pedersen, D., Merlin, C., and Menet J.S. (2020) bioRxiv 2020.12.12.422514; doi: <https://doi.org/10.1101/2020.12.12.422514>
- 65) Ding, Z., Lamb, T.M., Boukhris, A., Porter, R., and Bell-Pedersen, D. (2021) PPP1 phosphatase is required for circadian clock control of translation initiation factor eIF2- α activity in *Neurospora crassa*. mBio. E00871-21 DOI: 10.1128/mBio.00871-21.
- 66) Shen, L., Su, Z., Yang, K., Wu, C., Becker, T., Bell-Pedersen, D., Zhang, J., and Sachs, M.S. (2021) Structure of the translating *Neurospora* ribosome inhibited by cycloheximide. Proc. Natl. Acad. Sci. USA 118 (48): e2111862118.
- 67) Castillo, K. D., Wu, C., Ding, Z., Lopez-Garcia, O. K., Rowlinson, E., Sachs, M. S., and Bell-Pedersen, D. (2022) Circadian Clock-Controlled Translation of Specific *Neurospora crassa* mRNAs Requires Rhythmic eIF2 α Activity and P-Bodies. Cell Reports SSRN: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4042281

Manuscripts submitted or in preparation:

- 1) Jung, J., Werry, M., Galagan, J., Sachs, M.S., Bell-Pedersen, D. (in preparation) A circadian clock-regulated transcription factor network determines rhythmic phase.
- 2) Lamb, T.M., Castillo, K., and Bell-Pedersen, D. (in preparation) Rhythmic association of RPL31 with translating ribosomes drives clock control of translation fidelity.

Refereed Invited Book Chapters:

- 1) Dunlap, J.C., Loros, J.J., Aronson, B.D., Johnson, K.A., Liu, Q., Lindgren, K.M., Bell-Pedersen, D., and Garceau, N. (1992) *Genetic and Molecular Analysis of the Neurospora Circadian Clock* ed. Tudzynski, P. and Stahl, U. Verlag Chemie, Berlin. 253-265.
- 2) Dunlap, J.C., Loros, J.J., Aronson, B., Mellow, M., Crosthwaite, S., Bell-Pedersen, D., Lindgren, K., Garceau, N., and Johnson, K. (1995) Genetic Basis of the Circadian Clock. (1995) in *Circadian Clocks and Their Adjustment*, ed. J. Waterhouse. John Wiley & Sons, Chichester. Ciba Foundation Symposium No. 183: 3-17.
- 3) Dunlap, J.C., Loros, J.J., Mellow, M., Crosthwaite, S., Bell-Pedersen, D., Garceau, N., Shinohara, M., Cho, H., and Luo, C. (1996) The Genetic and Molecular Dissection of a Prototypic Circadian System. *Progress in Brain Research* (Elsevier), Vol. III (eds. Buijs, R.M.) 11-27.
- 4) Dunlap, J.C., Loros, J.J., Crosthwaite, S., Liu, Y., Bell-Pedersen, D., Garceau, N., Shinohara, M., Luo, C., Collett, M., Cole, A.B., and Heintzen, C. (1997) The Circadian Regulatory System in *Neurospora*. *Soc. for Gen. Micro.* (Cambridge University Press).
- 5) Bell-Pedersen, D. (2001) Circadian Rhythms in *Neurospora crassa*. In *Molecular Biology of Fungal Development*. ed. Osiewacz, H. Marcel Dekker, New York. 187-214.
- 6) Correa, A., Lewis, Z.A., Greene A.V., and Bell-Pedersen, D., (2003) Molecular genetics of circadian rhythms in *Neurospora*. In *Applied Mycology and Biotechnology-Fungal*

- Genomics* (vol. 3). Elsevier Science 43-63.
- 7) Correa, A., Lewis, Z.A., Greene, A.V., Vitalini, M., Morgan, L., Seo, K. S., and Bell-Pedersen, D. (2005) Diverse circadian output pathways in *Neurospora crassa*. *The Circadian Clock in Eukaryotic Microbes*. Eureka Bioscience.
 - 8) Vitalini, M.W., Dunlap, J.C., Heintzen, C., Liu, Y., Loros, J.J., and Bell-Pedersen (2010) Circadian Rhythms. In *Cellular and Molecular Biology of Filamentous Fungi*. Borkovich and Ebbole, Eds. ASM press. 442-466

