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## CURRICULUM VITAE

### PERSONAL

Name: Robert Anselmo Sclafani

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Birthplace: Brooklyn, New York

#### Business Address:

Department of Biochemistry and Molecular Genetics  
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#### Home Address:

9068 W. 95th Ave.  
Westminster, CO 80021  
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### EDUCATION

- 1981-1985 NIH Postdoctoral Fellow, Department of Genetics, University of Washington  
Advisors: Drs. Walton Fangman; co-Advisor Leland Hartwell  
Research: Nucleic acid replication in *S.cerevisiae*
- 1975-1981 Graduate fellow-Columbia University & University of Utah  
Advisors: Drs. James Wechsler; co-Advisor K. Gordon Lark  
Thesis: The Genetics and Molecular Physiology of the *dnaB* Protein in *Eschericia coli*
- 1981 Ph.D. Genetics and Molecular Biology, Columbia University, New York
- 1978 M. Phil., Biological Sciences  
Columbia University, New York
- 1976 M.A., Biological Sciences  
Columbia University, New York
- 1975 B.A. Biology, Columbia College, New York

### PROFESSIONAL EXPERIENCE

- 2014- Director-Molecular Biology Training Program  
University of Colorado Graduate School
- 2006-2008 Interim Chair

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Department of Biochemistry and Molecular Genetics  
University of Colorado School of Medicine (SOM)

- 2006- Associate Director for Basic Sciences-MSA (Mentored Scholarly Activity) Program (SOM)
- 2003-2004 Interim Associate Director of Basic Sciences of the University of Colorado Comprehensive Cancer Center (UCCC)
- 1997- Member of Biomedical Sciences Graduate Program (BSP)  
University of Colorado Graduate School
- 1997- Professor (Tenured)  
Department of Biochemistry and Molecular Genetics (SOM)
- 1997- Co-Director of the Cancer Cell Biology Program of the UCCC
- 1995- Member of the Human Genetics Training Program (SOM)
- 1993-1994 Sabbatical study at Somatogen, Inc., Boulder, Colorado
- 1991-1997 Associate Professor (Tenured)  
Department of Biochemistry and Molecular Genetics (SOM)
- 1987-1990 Assistant Professor of Chemical Engineering  
Secondary Appointment  
University of Colorado at Boulder
- 1987- Member of Molecular Biology and MSTP (Medical Scientist Training Program) Interdepartmental Programs (SOM) and the UCCC
- 1985-2003 Director-Graduate School Admissions Committee  
Department of Biochemistry and Molecular Genetics (SOM)
- 1985-2003 Director-Graduate Program  
Department of Biochemistry and Molecular Genetics (SOM)
- 1985-1991 Assistant Professor  
Department of Biochemistry and Molecular Genetics (SOM)

#### HONORS AND AWARDS

Fellow of the American Academy of Microbiology 2011-  
UCD Department of Pathology Excellence in Teaching Award 2007-2008  
**Chromosoma** Paper of the Year Award 1994  
Alberta Heritage Foundation for Medical Research-Visiting Lecturer 1993  
University of Colorado Chancellor's Teaching Award 1992  
PHS (NIH) and NSF Grants 1985-Present  
NIH Postdoctoral Fellowship 1981-1984  
Columbia University Fellowship 1975-1980  
National Merit Special Scholarship 1971-1975  
New York State Regents Scholarship 1971-1975

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### PROFESSIONAL SOCIETIES

American Society for Microbiology (ASM)  
American Chemical Society (ACS)  
The Genetics Society of America (GSA)  
American Association for the Advancement of Science (AAAS)  
American Society for Cell Biology (ASCB)  
International Association for the Study of Lung Cancer (IASLC)  
American Association for Cancer Research (AACR)  
Advancing Chicanos/Hispanics and Native Americans in Science (SACNAS)

### OTHER PROFESSIONAL ACTIVITIES

Reviewer for the Following Journals: Current Pharmacology Reports, Cell, Cancer Research, Cell Growth and Differentiation, Current Opinion in Cell Biology, Current Cancer Drug Targets, EMBO J., Genetics, Lung Cancer, Proceedings of the National Academy of Sciences (USA), J. Biological Chemistry, J. Mammary Gland Biology and Neoplasia, Mol. Biology of the Cell, Molecular and Cellular Biology, Nature, Nucleic Acids Res., Mutation Research, Experimental Cell Research and J. Cell Science.

Editorial Boards: G3: Genes|Genomes|Genetics 2011-Present; Annual Review of Genetics, vol. 43 2009. Guest Editor for eLife in 2016.

#### Grant reviewer:

National Science Foundation-Eukaryotic Genetics Advisory Panel 2005-2006  
National Institutes of Health: Molecular Genetics C Study Section *ad hoc* 2005, 2006, & 2010.  
National Institutes of Health: *ad hoc* member Cancer Genetics Study Section 2006-2008  
National Institutes of Health: Physiological Chemistry Study Section 1999-2003  
National Institutes of Health: *ad hoc* member Molecular Cytology Study Section 1994  
Consultant for National Heart, Lung and Blood Institute in 1993 and for National Cancer Institute- SPORE in Prostate Cancer in 1995.  
National Science Foundation-Genetics Advisory Panel 1992-1994.  
National Science Foundation-Biotechnology Division 1986-88  
US Army Prostrate Cancer-Molecular Biology Study Section 1998-2001  
National Cancer Institute-Consultant for Cancer Centers 1998-2001  
Colorado Cancer League 2000-2002; 2014-**Present**  
Scientific Foundation of Ireland- *ad hoc* 2006 and Site Visit 2007  
Molecular Genetics C Study Section *ad hoc* 2010  
ZRG1 Special Emphasis Panels for GGG (Genes, Genomes and Genetics), GVE (Genetic Variation and Evolution) and CB (Cell Biology) Study Sections *ad hoc* reviewer 2010-2013  
CCTSI (Colorado Clinical Translational Sciences Institute) programs: Novel Clinical and Translational Methods and Pilot Grant Programs 2009-**Present**  
Cancer League of Colorado Scientific Advisory Board 2014- 2015  
Agence Nationale de la Recherche (France) 2016  
Fanconi Anemia Research Foundation 2014-**Present**

Scientific Advisory Committee for the International Cancer Research Symposia (India) (2008-**Present**)

Member-Local Planning Committee for the 7TH World Conference on Lung Cancer

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Invited Instructor for the Molecular Biology In Clinical Oncology Workshop sponsored by the American Association of Cancer Research 1997-2013 in Aspen, CO.

Elected Co-Chair of FASEB Summer Research Conference Meeting for “Yeast Chromosome Structure, Replication and Segregation” held in Aug. 1998.

### FACULTY MENTORING

I have mentored/am mentoring the following former/current Assistant Professors:

1997-2003	Dr. James DeGregori (Currently Professor in BMG)
1997-2002	Dr. Julia Cooper (Currently Group Leader at NIH/NCI)
2000-2006	Dr. Jessica Tyler (Currently Professor at Weill Cornell Medical College, NY)
2000-2006	Dr. Mingxia Huang (Currently Associate Professor in Dermatology)
2014-	Dr. Dohun Pyeon (Associate Professor in Immunology & Microbiology)
2010-	Dr. Daniel Caprioglio (Professor at CSU at Pueblo) (NIH BUILD program)
2013-	Dr. Marino Resendiz (Assistant Professor of Chemistry at UCD)

### RESEARCH INTERESTS

Eukaryotic cell cycle control and the regulation of the fidelity of DNA replication and cell proliferation; Mechanisms of Mutagenesis/Carcinogenesis in cancer cells; DNA replication and DNA damage checkpoints; DNA repair mechanisms; Mechanism of action of natural products in Cancer Chemoprevention.

### PUBLICATIONS (70 peer-reviewed publications)

For a Complete List of my Published Work in MyBibliography:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/robert.sclafani.1/bibliography/41024684/public/?sort=date&direction=descending>

or Scopus ID# [7004691256](https://scopus.com/authorid/7004691256) (*h*-index=28; 73 documents; Citations:3272 total citations by 2533 documents in Nov of 2017).

1. Sclafani, R. A. and Wechsler, J.A. The suppression of *dnaC* alleles by the *dnaB* analog (*ban* protein) of bacteriophage P1. *J. Bacteriol* 146, 321-324 (1981).
2. Sclafani, R. A. and Wechsler, J. A. The DNA initiation mutation, *dnaB252* is suppressed by elevated *dnaC+* gene dosage. *J. Bacteriol.* 146, 418-421 (1981).
3. Sclafani, R. A., Wechsler, J. A. and Schuster, H. The isolation and characterization of *Escherichia coli dnaB*: Tn10 insertion mutations. *Mol. Gen. Genet.* 182, 112-118 (1981).
4. Sclafani, R. A. and Wechsler, J. A. Growth of phages I and qX174 under P1 *ban* protein control in the absence of host *dnaB* function. *Virology* 113, 314-322 (1981).
5. Sclafani, R. A. and Wechsler, J. A. *dnaB125*, a *dnaB* nonsense mutation. *J. Bacteriol.* 146, 1170-1173 (1981).
6. Sclafani, R. A. and Wechsler, J. A. DNA replication intermediates synthesized by lysates of *dnaB*, *dnaG*, and *dnaB dnaG* mutants *in vitro*. *Mol. Gen. Genet.* 182, 95-98 (1981).

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7. Sclafani, R. A. and Wechsler, J. A. High yield purification of small, single stranded DNA. *Anal. Biochem.* 115, 197-202 (1981).
8. Sclafani, R. A. and Wechsler, J. A. Deletion map of the *Escherichia coli* K-12 *dnaB* gene. *Mol. Gen. Genet.* 183, 314-317 (1981).
9. Sclafani, R. A. and Wechsler, J. A. High frequency of genetic duplications in the *dnaB* region of the *Escherichia coli* K-12 chromosome. *Genetics* 98, 677-689 (1981).
10. Sclafani, R.A. and Fangman, W.L. Conservative Replication of yeast double-stranded RNA by displacement of progeny single strands. *Mol.Cell.Biol.* 4, 1618-1626 (1984).
11. Sclafani, R.A. and Fangman, W.L. The yeast gene *CDC8* encodes thymidylate kinase and is complemented by Herpes TK. *Proc. Natl. Acad. Sci. USA* 81, 5821-5825 (1984)
12. Patterson.M., Sclafani, R.A.,Fangman, W.L. and Rosamond, J. Molecular characterization of the cell cycle gene *CDC7* from *Saccharomyces cerevisiae*. *Mol.Cell.Biol.* 6, 1590-1598 (1986)
13. Sclafani,R.A. and Fangman, W.L. Thymidine utilization by *tut* mutants and facile cloning of mutant alleles by plasmid conversion in *S. cerevisiae*. *Genetics* 114, 753-767 (1986)
14. Sclafani, R.A., Patterson, M., Rosamond, J. and Fangman, W.L. Differential regulation of the yeast *CDC7* gene during mitosis and meiosis. *Mol.Cell.Biol.* 8, 293-300 (1988)
15. Hovland, P., Flick, J., Johnston, M. and Sclafani, R.A. Galactose as a gratuitous inducer of *GAL* gene expression in yeasts growing on glucose. *Gene* 83, 57-64 (1989).
16. Langan, T.A., Gautier, J., Lohka, M., Hollingsworth, R., Nurse, P., Maller, J.A., and Sclafani., R.A. Mammalian growth-associated H1 histone kinase: A homolog of *cdc2*<sup>+</sup>/*CDC28* protein kinases controlling mitotic entry in yeast and frog. *Mol. Cell. Biol.* 9, 3860-3868 (1989).
17. Su, J.-Y., Belmont, L. and Sclafani, R.A. Genetic and molecular characterization of *SOE1*, a tRNA<sub>3</sub><sup>Glu</sup> missense suppressor of yeast *cdc8* mutations. *Genetics* 124, 523-531 (1990).
18. Hollingsworth, R.E., Jr. and Sclafani, R.A. DNA metabolism gene *CDC7* from yeast encodes a serine (threonine) protein kinase. *Proc. Natl. Acad. Sci. USA* 87, 6272-6276 (1990)
19. Su, J.-Y. and Sclafani, R.A. Molecular cloning and expression of the human deoxythymidylate kinase gene in yeast. *Nucl. Acids Res.*19, 823-827 (1991).
20. Hollingsworth, R.E., Jr., Ostroff, R. M, Niswander, L.A., Klein. M. and Sclafani, R.A. Molecular genetic studies of the *Cdc7* protein kinase and induced mutagenesis in yeast. *Genetics* 132, 53-62 (1992).
21. Jackson, A., Pahl, P.M.B., Harrison, K., Rosamond, J. and Sclafani, R.A. Cell cycle regulation of the yeast *Cdc7* protein kinase by association with the *Dbf4* protein. *Mol. Cell. Biol.*, 13, 2899-2908 (1993).
22. Hollingsworth, R.E., Jr. and Sclafani, R.A. Yeast pre-meiotic DNA replication utilizes mitotic origin *ARS1* independent of *CDC7* function. *Chromosoma* 102, 415-420 (1993). **Selected as paper of the year by the journal.**

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23. Sclafani, R.A. and Jackson, A.L. Cdc7 protein kinase for DNA metabolism comes of age. *Molec. Micro.* 11, 805-810 (Invited Review-1994).
24. Schauer, I., Siriwardana, S., Langan, T.A. and Sclafani, R.A. Cyclin D overexpression vs. Rb inactivation: Implications for growth control evasion in non-small cell and small cell lung cancer. *Proc. Natl. Acad. Sci. USA* 91, 7827-7831 (1994).
25. Ostroff, R. M. and Sclafani, R.A. Cell Cycle Regulation of Induced Mutagenesis in Yeast. *Mutation Res.* 329, 143-152 (1995).
26. Sclafani, R.A. and Schauer, I.E. Cell Cycle Control and Cancer : Lessons from Lung Cancer. *J. Invest. Dermatology Symposium Proceedings* 1: 123-127 (1996)
27. Hardy, C.F.J., Dryga, O., Seematter, S., Pahl, P.M.B. and Sclafani, R.A. *mcm5/cdc46-bob1* bypasses the requirement for the S phase activator Cdc7p. *Proc. Natl. Acad. Sci. USA* , 94: 3151-3155 (1997).
28. Groshong, S.D., Owen, G.I., Grimison, B., Schauer, I.E., Todd, M.C., Langan, T.A., Sclafani, R.A., Lange, C.A. and Horwitz, K.B. Biphasic regulation of breast cancer cell growth by progesterone: Role of the cyclin-dependent kinase inhibitors, p21 and p27<sup>Kip1</sup>. *Mol. Endocrinol.* 11: 1593-1607 (1997).
29. Hovland, P.G. Tecklenberg, M. and Sclafani, R.A. Overexpression of the protein kinase Pak1 suppresses yeast DNA polymerase mutations. *Mol. Gen. Genet.* 256: 45-53 (1997).
30. Hess, G.F., Drong, R.F., Weiland, K.L., Slighthom, J.L., Sclafani, R.A. and Hollingsworth, R.E., Jr.. A human homolog of the yeast *CDC7* gene is overexpressed in various tumors and transformed cell lines. *Gene* 211,133-140 (1998).
31. Shellman, Y. G., Schauer, I.E., Oshiro, G., Dohrmann, P. and Sclafani, R.A. Oligomers of yeast Cdc7/Dbf4 kinase exist in the cell. *Mol. Gen. Genet.* 259, 429-436 (1998).
32. Dohrmann, P., Oshiro, G., Tecklenberg, M. and Sclafani, R.A. *RAD53* regulates *DBF4* independent of checkpoint function inn *S. cerevisiae*. *Genetics* 151, 965-977 (1999).
33. Shellman, Y. G., E. Svee, R. A. Sclafani, and T. A. Langan. Identification and characterization of individual cyclin-dependent kinase complexes from *Saccharomyces cerevisiae*. *Yeast* 15: 295-309 (1999).
34. Oshiro, G., Owens, J., Shellman, Y.G., Sclafani, R.A and Li, J. Cell cycle control of Cdc7 kinase activity through regulation of Dbf4 stability. *Mol. Cell. Biol.* 19, 4888-4896 (1999).
35. Todd, M.C., Sclafani, R.A. and Langan, T.A. Ovarian Cancer Cells that coexpress endogenous Rb and p16 are insensitive to overexpression of functional p16 protein. *Oncogene* **19**: 258-264 (2000).
36. Sclafani, R.A. Cdc7p-Dbf4p Becomes Famous in the Cell Cycle. *J. Cell Sci.* **113**: 2111-2117 (2000)-Invited Review.

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37. Grimison, B.M., Langan, T.A. and Sclafani, R.A. p16<sup>Ink4a</sup> Tumor Suppressor Function in Lung Cancer Cells Involves Cdk2 Inhibition by Cip/Kip Protein Redistribution. *Cell Growth and Diff.*, 11:507-515 (2000).
38. Mamay CL, Schauer IE, Rice PL, McDoniels-Silvers A, Dwyer-Nield LD, You M, Sclafani RA, Malkinson AM. Cyclin D1 as a proliferative marker regulating retinoblastoma phosphorylation in mouse epithelial cells. *Cancer Lett.* 168:165-172 (2001).
39. Fouty, B. W., Grimison, B., Fagan, K. A., Le Cras, T. D., Harral, J. W., Hoedt-Miller, M., Sclafani, R. A., and Rodman, D. M. p27<sup>Kip1</sup> is important in modulating pulmonary artery smooth muscle cell proliferation, *Am. J. Respir.* 25: 652-658 (2001).
40. Sclafani, R.A., Tecklenburg, M. and Pierce, A. The *mcm5-bob1* bypass of Cdc7p/Dbf4p in DNA replication depends on both Cdk1-independent and Cdk1-dependent steps in *S. cerevisiae* *Genetics*, 161: 47-57 (2002).
41. Fletcher, R. J., B. E. Bishop, R. P. Leon, R. A. Sclafani, C. M. Ogata, and X. S. Chen. The structure and function of MCM from archaeal *M. Thermoautotrophicum*. *Nat Struct Biol* **10**:160-167. (2003) (Selected by journal for cover figure and for "News and Views", see Kelman, Z., and J. Hurwitz. 2003. Structural lessons in DNA replication from the third domain of life. *Nat Struct Biol* 10:148-150.)
42. Limesand, K., Barzen, K., Sanders, L., Sclafani, R.A., Reynolds, M., Reyland, M., and Anderson, S. (2003) Characterization of rat parotid and submandibular acinar cell apoptosis in primary culture. *In Vitro Cell. Dev. Biol. Anim.* **39**:170-177.
43. Agarwal, C., Singh, R.P., Dhanalakshmi, S., Tyagi, A.K., Tecklenburg, M., Sclafani, R.A. and Agarwal, R. (2003) Silibinin up-regulates the expression of cyclin-dependent kinase inhibitors, and causes cell cycle arrest and apoptosis in human colon carcinoma HT-29 cells. *Oncogene* **22**: 87671-8782
44. Pessoa-Brandão, L. and Sclafani, R.A. (2004) *CDC7/DBF4* functions in the translesion synthesis branch of the *RAD6* epistasis group in *Saccharomyces cerevisiae* *Genetics* 167:1597-1610 (2004)
45. Sclafani, R.A., Fletcher, R.J., Chen, X.S. (2004) "Two Heads are Better than One"-Regulation of DNA Replication by Hexameric Helicases. *Genes and Dev.* 18:2039-2045 (2004)
46. Tyagi, A.K, Singh, R.P., Agarwal, C., Siriwardana, S., Sclafani R.A. and Agarwal, R. Resveratrol causes Cdc2-tyr15 phosphorylation via the ATM/ATR-Chk1/2-Cdc25C pathway as a central mechanism for S phase arrest in human ovarian carcinoma Ovar-3 cells. *Carcinogenesis* (2005) 26: 1978-87.
47. Dohrmann, P. and Sclafani, R.A. Novel Role for Checkpoint Rad53 Protein Kinase in the Initiation of Chromosomal DNA Replication in *S. cerevisiae*. *Genetics* (2006) 174:87-99.
48. Sclafani, R.A. and Holzen, T.M. Cell Cycle Regulation of DNA Replication. *Annual Rev. of Genetics* 41:237-280 (2007).
49. Hoang, M., Leon, R., Pessoa-Brandao, L. , Raghuraman, M.K., Fangman, W.L., Sclafani, R.A. Structural changes in Mcm5 protein bypass Cdc7-Dbf4 function and reduce replication origin efficiency in *S. cerevisiae*. *Mol Cell Biol* **27**: 7594-7602 (2007).

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50. S. Roy, M. Kaur, C. Agarwal, M. Tecklenburg, R.A. Sclafani and R. Agarwal. p21 and p27 induction by silibinin is essential for its cell cycle arrest effect in prostate carcinoma cells. *Molecular Cancer Therapeutics* **6**: 2696-2707 (2007). PMID: 17938263
51. Roy, S., Singh, R.P., Siriwardana, S., Agarwal, C., Sclafani, R.A. and Agarwal, R. Down-regulation of both p21/Cip1 and p27/Kip1 produces a more aggressive prostate cancer phenotype. *Cell Cycle* **7**: 1828-1835 (2008). PMID: 18583941
52. Leon. R.P, Tecklenburg, M. and Sclafani, R.A. Functional conservation of b-hairpin DNA binding domains in the Mcm protein of *M. thermoautotrophicum* and Mcm5 protein of *S. cerevisiae*. *Genetics* **179**: 1757-1768 (2008). PMID: 18660534.
53. Roy, S., Gu, M., Ramasamy, K., Singh, R.P., Agarwal, C., Siriwardana, S., Sclafani, R.A. and Agarwal, R. p21/Cip1 and p27/Kip1 are Essential Molecular Targets of Inositol Hexaphosphate for Its Antitumor Efficacy against Prostate Cancer. (2009) *Cancer Research* **69**: 1166-73.
54. Chia-Yi Chien, Bo-Ruei Chen, Chen-Kung Chou, Robert A. Sclafani, Jin-Yuan Su. The yeast Cdc8 exhibits both deoxythymidine monophosphate and diphosphate kinase activities. *FEBS Letters*, in press (2009).
55. Holzen, T.M. and Sclafani, R. A., and. Genetic interaction of RAD53 protein kinase with histones is important for DNA replication (2010) *Cell Cycle* **9**:4735-47.
56. Radhakrishnan, S., Reddivari, L., Sclafani, R., Das, U.N., and Vanamala, J. Resveratrol potentiates grape seed extract induced human colon cancer cell apoptosis. (2011) *Frontiers in Bioscience E3*, 1509-1523.
57. Kaur, M. Tyagi,A., Singh, R.P., Sclafani, R.A., Agarwal, R. and Agarwal, C., Grape seed extract up-regulates p21 (Cip1) by redox-mediated activation of ERK1/2 and post-transcriptional mechanisms for its cell cycle arrest effect in colon carcinoma HT29 cells. (2011) *Mol Carcinog* **50**: 553-62.
58. Tyagi, A., Gu, M., Takahata, T., Frederick, B., Agarwal, C., Siriwardana, S., Agarwal, R., and Sclafani, R.A. (2011). Resveratrol Selectively Induces DNA Damage, Independent of Smad4 Expression, in Its Efficacy against Human Head and Neck Squamous Cell Carcinoma. *Clin Cancer Res* **17**, 5402-5411.
59. Han, K.J., Foster, D.G., Zhang, N.Y., Kanisha, K., Dzieciatkowska, M., Sclafani, R.A., Hansen, K.C., Peng, J., and Liu, C.W. (2012). Ubiquitin-specific protease 9x deubiquitinates and stabilizes the spinal muscular atrophy protein-survival motor neuron. *J Biol Chem* **287**, 43741-43752. PMID: 23112048 [PubMed - in process] PMCID: PMC3527959 [Available on 2013/12/21]
60. Karim Bahmed, Curtis Henry, Michael Holliday, Jasmina S Redzic, Madalina Ciobanu, Fengli Zhang, Colin Weekes, Robert A Sclafani, James DeGregori and Elan Z Eisenmesser. Extracellular cyclophilin-A stimulates ERK1/2 phosphorylation in a cell-dependent manner but broadly stimulates nuclear factor kappa B. (2012) *Cancer Cell Int.* **20**:19.
61. Zhong, Y., Nellimoottil, T. Peace, J.M., Knott, S. R.V., Villwock, S.K., Yee, J.M., Jancuska, J.M., Rege, S. Tecklenburg, M., Sclafani, R.A., Tavaré, S., Aparicio, O.M. (2013) The level of



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origin firing inversely affects the rate of replication fork progression. *J. Cell Biol.* 201:373-383. PMID: 23629964 PMCID: PMC3639389 [Available on 2013/10/29] (**Highlighted** in “In This Issue” as “Fewer forks make faster progress” and Recommended by the Faculty of 1000 (F1000 Prime) July 9, 2013).

62. S. Shrotriya, A. Tyagi, G. Deep, D.J. Orlicky, J. Wisell, X.J.Wang, R.A. Sclafani, C. Agarwal and R. Agarwal. Grape seed extract and resveratrol prevent 4-nitroquinoline 1-oxide induced oral tumorigenesis in mice by modulating AMPK activation and associated biological responses. *Mol. Carcinog.* (2013) Nov 14. doi: 10.1002/mc.22099. [Epub ahead of print] PMID: 24243690

63. Ramey CJ, Sclafani RA. Functional Conservation of the Pre-Sensor One Beta-finger Hairpin (PS1-hp) Structures in MCM Proteins of *Saccharomyces cerevisiae* and Archaea. *G3* (Bethesda). 2014. Epub 2014/05/31. doi: 10.1534/g3.114.011668. PubMed PMID: 24875627.

64. Brandao LN, Ferguson R, Santoro I, Jinks-Robertson S, Sclafani RA. The Role of Dbf4-Dependent Protein Kinase in DNA Polymerase zeta-Dependent Mutagenesis in *Saccharomyces cerevisiae*. *Genetics.* 2014. Epub 2014/05/31. doi: 10.1534/genetics.114.165308. PubMed PMID: 24875188.

65. Shrotriya S, Agarwal R, Sclafani R. A Perspective on Chemoprevention by Resveratrol in Head and Neck Squamous Cell Carcinoma. In: Vasiliou V, Zakhari S, Seitz HK, Hoek JB, editors. *Biological Basis of Alcohol-Induced Cancer*: Springer International Publishing; 2015. p. 333-48.

66. Xiuxiang An, Caiguo Zhang, Robert Sclafani, Paul Seligman and Mingxia Huang: The late-annotated small ORF *LSO1* is a target gene of the iron regulon of *Saccharomyces Cerevisiae*. *Microbiologyopen*, 2015. doi: 10.1002/mbo3.303. PubMed PMID: 26450372.

67. Rossbach D, Sclafani RA. Role of DDK in replication initiation. In: Kaplan DL, editor. *The Initiation of DNA Replication in Eukaryotes*. 1 ed. New York: Springer International Publishing; 2016. p. XII, 563.

68. Todd MC, Langan TA, Sclafani RA. Doxycycline-Regulated p16MTS1 Expression Suppresses the Anchorage-Independence and Tumorigenicity of Breast Cancer Cell Lines that Lack Endogenous p16. *J Cancer.* 2017;8(2):190-8. doi: 10.7150/jca.15481. PubMed PMID: 28243323; PubMed Central PMCID: PMC5327368.

69. Rossbach D, Bryan DS, Hesselberth JR, Sclafani R. Localization of Cdc7 Protein Kinase During DNA Replication in *Saccharomyces cerevisiae*. *G3* (Bethesda). 2017;7(11):3757-74. Epub 2017/09/20. doi: 10.1534/g3.117.300223. PubMed PMID: 28924058; PubMed Central PMCID: PMC5677158.

70. Sclafani RA, Hesselberth JR. O Cdc7 kinase where art thou? *Current Genetics.* 2017:1-4. doi: 10.1007/s00294-017-0782-8 (Invited).

#### INVITED BOOK CHAPTERS AND REVIEWS (non-peer reviewed)

1. Sclafani, R.A. Cyclin-dependent Kinase Activating Kinases (invited review). *Current Opinion in Cell Biology* 8, 788-794 (1996).
2. Schauer, I. E., and R. A. Sclafani. Cell cycle regulators and mechanisms of growth control evasion in lung cancer, p. 105-116. *In* Y. Martinet, F. R. Hirsch, N. Martinet, J.-M.

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Vignaud, and J. L. Mulshine (ed.), Clinical and biological basis of lung cancer prevention. Birkhauser Verlag, Basel, Switzerland (1998).

3. Sclafani, R.A., Schauer, I. E., and Langan, T.A. Alterations in Cell Cycle Control in Lung Cancer; Chapter 10 in *Biology of Lung Cancer*, eds. Kane, M., Kelly, K., Miller, Y. and Bunn, P.A., Jr., Marcel Dekker, Inc., New York p 295-315 (1998).
4. Sclafani, R.A. Chromosomes in the Rocky Mountains-Report on FASEB Summer Research Conference Meeting for "Yeast Chromosome Structure, Replication and Segregation" Aug. 8-13, 1998. *Trends in Genetics* 14, 441-442 (1998).
5. Ford, H., R. A. Sclafani, and J. V. DeGregori. 2003. Cell Cycle Regulatory Cascades. In G. Stein and A. Pardee (ed.), *Cell Cycle and Growth Control: Biomolecular Regulation and Cancer*. John Wiley & Sons, New York.

#### INVITED PEER-REVIEWED ARTICLES FOR THE PUBLIC INTEREST

1. Sclafani, R.A. For the Beginner: Yeast at Work. *Zymurgy* 20: 45-47 (1997).

#### ABSTRACTS

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2. Sclafani, R. A., Wagner, D. W. and Fangman, W. L. Genetics of DNA Replication in Yeast-*CDC7* and *CDC8* Gene Products. Cold Spring Harbor Meeting on The Molecular Biology of Yeast. (R. A. Sclafani is *invited speaker*) (1983).
3. Sclafani, R. A. and Fangman, W. L. Production of Conserved Duplexes during Killer Double Stranded RNA Replication in *Saccharomyces cerevisiae*. Cold Spring Harbor Meeting on The Molecular Biology of Yeast (1983).
4. Sclafani, R. A. and Fangman, W. L. . Identification of the *CDC8* Gene Product as Thymidylate kinase and *In Vivo* Estimation of the Amount of Functional *CDC8* and *CDC7* Gene Products. Twelfth International Conference on Yeast Genetics and Molecular Biology. Edinburgh, Scotland (1984).
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11. Sclafani, R.A. and Hollingsworth, R. Yeast *CDC7* protein: a protein kinase which regulates mitotic DNA replication, repair and meiotic recombination. ASM Conference on DNA Replication and Mutagenesis at Marco Island, Florida. (1987).
12. Sclafani, R.A. and Hovland, P. Optimizing Heterologous Protein production in non-dividing yeast cells. First Annual Colorado Biotechnology Symposium at Colorado State University, Ft. Collins, CO. (1988).
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17. Sclafani, R. A. and Hovland, P. A Genetic Approach to Continuous Fermentation. Second Annual Colorado Biotechnology Symposium at Boulder, CO. (1989). \*received prize for poster presentation
18. Hollingsworth, R. E. and Sclafani, R. A. Yeast Cdc7 kinase acts as a master switch in DNA metabolism. Annual Student Research Forum, UCHSC (1989 & 1990) \*received the Department of Biochemistry, Biophysics and Genetics Award for his Presentations.
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21. Sclafani, R. A. and Hollingsworth, R. E.. Yeast Cdc7 protein kinase regulates three aspects of DNA metabolism. FASEB meeting on Yeast Chromosome Replication and Segregation, Saxtons River, Vermont, August 5-10. (Abstract is one of only 125 selected for presentation) (1990).
22. Sclafani, R.A., Ostroff, R.M., Hollingsworth, R. E., Brown, A., and Klein, M. Yeast *CDC7* gene encodes a nuclear ser/thr protein kinase that regulates the G1 to S phase transition and induced mutagenesis. Yeast Genetics and Molecular Biology Meeting, San Francisco, CA, May 23-28 (1991). (R. Sclafani selected as platform speaker)
23. Pahl, P. and Sclafani, R.A. Investigation of a cold-sensitive extragenic suppressor of *cdc7* temperature-sensitivity in yeast. Yeast Genetics and Molecular Biology Meeting, San Francisco, CA, May 23-28 (1991).
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25. Sclafani, R.A., Ostroff, R.M., Hollingsworth, R. E., Brown, A., and Klein, M. Yeast *CDC7* gene encodes a nuclear ser/thr protein kinase that regulates the G1 to S phase transition and induced mutagenesis. Cold Spring Harbor Symposium: The Cell Cycle, May 29 to June 5 (1991).
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47. Oshiro, G., Shellman, Y. and Sclafani, R.A. Regulation of yeast Cdc7 kinase. American Society for Microbiology Meeting on Yeast Genetics and Human Disease, Baltimore, MD, November 14-17, 1996.
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49. Sclafani, R.A., Shellman, Y., Oshiro, G., Dohrmann, P. Galbraith, A., Tecklenberg, M. and Pahl, P.M.B. Yeast Cdc7/Dbf4 and Cdc28/Clb5 protein kinases regulate the licensing of DNA replication. Eukaryotic DNA Replication, Cold Spring Harbor Laboratories, Sept. 3-7, 1997.
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51. Sclafani, R.A., Shellman, Y.G., Oshiro, G., Dohrmann, P., Tecklenberg, M. Function and Regulation of Cdc7/Dbf4 kinase in the Initiation of DNA Replication and in DNA Repair. XIX International Conference on Yeast Genetics and Molecular Biology, Rimini, Italy, May 25-30, 1999.
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55. Langan, T.A., Todd, M.C., Siriwardana, S., Johnson, Sclafani, R.A. and Kraft, A.S. Breast Cancer Chemotherapy Targeted Towards Cell Cycle Regulatory Components. Era of Hope Meeting,, Dept. of Defense Breast Cancer Program, Atlanta, GA June 8-11, 2000.

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56. Luis Pessoa-Brandão and Robert A. Sclafani, *Cdc7 Regulation of MCM Function* presented at Eukaryotic DNA Replication Meeting at the Salk Institute, La Jolla CA Sept 6-10, 2000.

57. Sclafani, R.A. Cell Cycle Regulators-First Annual Leader Roundtable on “Targeted Therapies in the Treatment of Lung Cancer”, Jan. 24-28, 2001, Aspen. Colorado. R. Sclafani was invited speaker.

58. Intermediate Biomarker Profile for Lung Cancer Chemoprevention Trials. Fred R. Hirsch, Paul A. Bunn, York E. Miller, Karen Kelly, Timothy C. Kennedy, Roy M. Bremnes, Sheila Prindiville, Robert A. Sclafani, Wilbur A. Franklin. ASCO 2001

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63. Wilson, L.A., Chen, Xiaojiang, C. and Sclafani, R.A. Biochemical characterization of a thermophilic MCM protein from Crenarchaea. Eukaryotic DNA Replication, Cold Spring Harbor Laboratories, Sept. 3-7, 2003.

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66. Teresa M. Holzen and Robert A. Sclafani (2005) The role of Rad53 in the initiation of DNA replication. Eukaryotic DNA Replication, Cold Spring Harbor Laboratories, Sept. 7-11, 2005.

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68. Sclafani, R.A., Leon, R.P., Tecklenburg, M. FUNCTIONAL CONSERVATION OF b-HAIRPIN DNA BINDING DOMAINS IN MCM HELICASES FROM YEAST AND ARCHAEA.

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Eukaryotic DNA Replication and Genome Maintenance, Cold Spring Harbor Laboratories, Sept. 5-9, 2007.

69. Srirupa Roy, Rana Singh, Chapla Agarwal, Sunitha Siriwardana, Robert A. Sclafani, Rajesh Agarwal (2008). Reduced expression of both p21/Cip1 and p27/Kip1 proteins produces a more aggressive phenotype in human prostate cancer DU145 cells. AACR meeting, 2008.

70. Sclafani, R.A, Leon, R.P. Tecklenburg, M. (2008) Structure-Function Analysis of DNA binding domains in Mcm DNA helicases. Keystone Symposium on DNA Replication and Recombination. Feb. 10-15, 2008.

71. Robert A. Sclafani, Sunitha Siriwardana, Barbara Frederick, Simone Stahringer, Jessica Cummsky, Alpna Tyagi, Antonio Jimeno, Rajesh Agarwal, David Raben. Combined Resveratrol and Radiation Therapy in Head and Neck Cancer. AACR meeting, Denver, CO April 18-22, 2009.

72. Teresa Holzen and Robert A. Sclafani. Rad53 Protein Kinase regulates the initiation of DNA replication independently of its checkpoint role. Eukaryotic DNA Replication and Genome Maintenance, Cold Spring Harbor Laboratories, Sept. 1-5, 2009.

73. Robert A. Sclafani and Teresa Holzen Rad53 protein kinase regulates DNA replication by preventing histones from interfering in activation of replication initiation in *S. cerevisiae*. Yeast Genetics Meeting. Vancouver, BC Canada. July 27-Aug 1, 2010.

74. Robert A. Sclafani, Rajesh Agarwal, Alpna Tyagi, Sunitha Siriwardana, Takenori Takahata, Qinghong Zhang and Barbara Frederick. Checkpoint Protein Kinases Regulate Cancer Chemoprevention by Resveratrol. International Cancer Research Symposium 2010: India. Rajiv Gandhi Biotechnology Center, Thiruvananthapuram, India Dec. 20-22, 2010.

75. Teresa Holzen and Robert A. Sclafani. Rad53 protein kinase regulates the initiation of DNA replication by interaction with histones. Keystone Symposium on DNA Replication and Recombination. Feb. 27-March 4, 2011.

76. C.J. Ramey and Robert A. Sclafani. Determining functional conservation of beta-hairpin structures between archaeal MCM proteins and MCM proteins of *Saccharomyces cerevisiae*. Keystone Symposium on DNA Replication and Recombination. Feb. 27-March 4, 2011.

77. Tyagi, A., Agarwal, R, and Sclafani, R.A. Resveratrol induces DNA damage independent of Smad4 expression in its efficacy against human head and neck carcinoma cells AACR meeting, Orlando, FL April 2-6, 2011.

78. Takenori Takahata, Sunitha Siriwardana, Yasuo Saijo, Robert A Sclafani. Anti-proliferative effect of resveratrol against head and neck cancer cell lines. 70th Annual Meeting of Japanese Cancer Association (Oct 3-5 2011, Nagoya, Japan)

79. R. Sclafani, T. Holzen Rad53 protein kinase regulates DNA replication by interacting with histones. American Society for Cell Biology Annual Meeting, Denver, CO, Dec. 3-7, 2011.

80. Teresa M. Holzen, Askar Yimit, Harm van Bakel, Corey Nislow, C. Josh Ramey, Grant W Brown and Robert A. Sclafani. RAD53 PROTEIN KINASE REGULATES THE INITIATION OF DNA REPLICATION BY ACTING AS A NUCLEOSOME BUFFER AT ORIGINS. The Cell Cycle. Cold Spring Harbor Laboratories, May 15-19, 2012.



81. Robert A. Sclafani and Sunitha Siriwardana. Potential Therapeutic Use of Resveratrol for Head and Neck Carcinogenesis in Fanconi Anemia. Fanconi Anemia Research Foundation Annual Meeting. Sept 27-30, 2012. Denver, CO.
82. Robert A. Sclafani, Rajesh Agarwal, Alpna Tyagi, Sunitha Siriwardana, Takenori Takahata, and Barbara Frederick. Molecular Mechanism of Cancer Chemoprevention by Resveratrol. . Journal of Cell Commun. 2012. 3rd International Cancer Research Symposium 2012: Defining & Translating Science for Disease Prevention and Therapy, Kolkata, West Bengal, India, December 18–21, 2012.
83. Robert A. Sclafani, Rajesh Agarwal, Alpna Tyagi, Sunitha Siriwardana, Takenori Takahata, and Barbara Frederick. Resveratrol chemoprevention in HNSCC. 2<sup>nd</sup> Annual Alcohol and Cancer Conference. Keystone Meeting, Breckenridge CO, May 11-15, 2013.
84. R.A.Sclafani, S.Siriwardana. Potential Therapeutic Use of Resveratrol for Head and Neck Carcinogenesis in Fanconi Anemia. 25<sup>th</sup> Annual Fanconi Anemia Research Fund Scientific Symposium. Houston, TX. Oct 24-27, 2013.
85. Robert A. Sclafani, Rajesh Agarwal, Alpna Tyagi, Sunitha Siriwardana, Takenori Takahata, Barbara Frederick, David Raben. Chemoprevention by Resveratrol in Head and Neck Cancer. ASTRO meeting on Head and Neck Cancer. Scottsdale, AZ Feb 20-22, 2014.
86. Luis Brandão, Irma Santoro, Rebecca Ferguson, Sue Jinks-Robertson and Robert A. Sclafani Role of Dbf4-dependent protein kinase in DNA polymerase  $\zeta$ -dependent mutagenesis in *S. cerevisiae*. 2015 Keystone Symposia Conference on DNA Replication and Recombination, Whistler, British Columbia, CANADA, March 1-6, 2015.

## CURRENT SUPPORT

### **Outside Research Grants:**

#### **ACTIVE**

No number assigned (Sclafani and Agarwal) 10/01/2015 – 09/30/2017 0.6 Cal  
 Golfers Against Cancer \$50,000  
 Mechanism of Resveratrol Inhibition of Head and Neck Cancer in Fanconi Anemia  
 Major goal is to investigate the molecular mechanism of Resveratrol Inhibition of HNSCC cells from Fanconi Anemia patients.

P30CA046934 (Theodorescu) 02/01/2017 – 01/31/2021 1.20 Cal  
 NIH/NCI \$2,731,051 (\$30,899 R. Sclafani only)  
 Cancer Center Core Grant – Program Leaders  
 Major Goals: Program Leader of the Cancer Cell Biology Program  
 The major goal of the Cell Biology Program (A. Jimeno is co-leader) is to foster inter-disciplinary and inter-institutional research to reduce the cancer burden in Colorado, the Rocky Mountain region, and the nation.  
 Role: Program Leader

#### **Current Training Grants:**

1. T32GM008730-18 (Sclafani) 07/01/2015 – 06/30/2020 1.5 Cal  
 NIH/NIGMS \$200,459  
 Predoctoral Training in Molecular Biology

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Major Goals: Training for 6 PhD students in Molecular Biology

2. NIH 1 T32 CA147807-02 (XJ Wang and Bunn) 07/01/13-06/30/18 0.0 Cal  
NIH/NCI \$324,000

Institutional Training in Head and Neck Cancer Research

Major Goals: Training of Fellows and Students in Cancer Research

3. 3T32GM008730-17S1 (R. Sclafani) 07/01/16 – 06/30/2017 1.2 Cal  
NIH/NIGMS \$75,242

Rigor and Reproducibility in Biomedical Research Supplement

Training for PhD students in Molecular Biology and Pharmacology in Rigor and Reproducibility

5. 1T32CA190216-02 (M. Reyland) 07/07/16 – 06/30/2021 0.6 Cal  
NIH/NCI \$211,958

Training Program in Cancer Biology

Training for PhD students in the Cancer Biology program

#### PATENTS/TECHNOLOGY TRANSFER

Member of Scientific Advisory Council for Sudhin Biopharma (<http://www.sudhinbio.com>)

#### OUTSIDE COLLOQUIA

1. Genetics of DNA Replication in Yeast-*CDC7* and *CDC8* Gene Products. Cold Spring Harbor Meeting on The Molecular Biology of Yeast, CSH laboratories, New York 1983.

2. The yeast gene *CDC8* encodes thymidylate kinase and is complemented by Herpes TK. Department of Biochemistry, University of Michigan, Ann Arbor, Michigan. February, 1984.

3. Genetic and Molecular Analysis of Yeast DNA Replication-the *CDC7* and *CDC8* proteins. Synergen, Inc., Boulder, CO., April 5, 1986

4. Function and Cellular Levels of Yeast *CDC7* Protein, A putative protein kinase in DNA Replication. American Chemical Society - 8th Rocky Mountain Regional Meeting July 8, 1986

5. Optimizing heterologous protein production in non-dividing yeast cells. Zymogenetics, Inc., Seattle WA., September 27, 1987.

6. A Genetic Approach to Continuous Fermentation. Department of Chemistry, The University of Denver, Denver, CO. Feb. 23, 1989.

7. Functional similarity of mammalian growth-associated H1 kinase and the *CDC28* protein kinase of *Saccharomyces cerevisiae*. ICN-UCLA meeting on Yeast and Filamentous Fungi. April 3-9, 1989. (Invited speaker at cell cycle workshop).

8. A Genetic Approach to Continuous Fermentation. Somatogenetics, International, Inc., Broomfield, CO., June 16, 1989.

9. A Genetic Approach to Continuous Fermentation. Second Annual Colorado Biotechnology Symposium at Boulder, CO. September 20, 1989.

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10. Control of the Yeast Cell Cycle by Protein Phosphorylation: Does yeast have histone H1? Department of Embryology, Carnegie Institution of Washington, Baltimore, Maryland March 29, 1990.
11. Control of the Yeast Cell Cycle by Protein Phosphorylation. Department of Biology, Syracuse University, Syracuse, New York, May 29, 1990.
12. Yeast Cdc7 protein kinase regulates three aspects of DNA metabolism. FASEB meeting on Yeast Chromosome Replication and Segregation, Saxtons River, Vermont, August 5-10, 1990.
13. Regulation of the Mitotic Cell Cycle by a Protein Phosphorylation Cascade. Department of Biology, Williams College, Williamstown, MA, October 19, 1990.
14. The Science of Beer and Wine. Sigma Xi, The Scientific Honor Society, Colorado Springs Chapter. February 20, 1991.
15. The Science of Beer and Wine. Department of Biology, Regis College, Denver, CO. March 27, 1991.
16. Yeast *CDC7* gene encodes a nuclear ser/thr protein kinase that regulates the G1 to S phase transition and induced mutagenesis. Yeast Genetics and Molecular Biology Meeting, San Francisco, CA, May 23-28, 1991. (R. Sclafani selected as platform speaker).
17. CDC7 protein kinase regulates DNA replication and fidelity. Department of Molecular, Cellular and Developmental Biology, University of Colorado in Boulder, CO., April 9, 1992.
18. Regulation of Cdc7 protein kinase in the G1 to S phase transition. FASEB Summer Research Conference on Yeast Chromosome Structure, Replication and Segregation. Snowmass, CO, July 5-10, 1992.
19. Mechanisms of Cdc7 protein kinase regulation during the G1 to S phase transition of the yeast cell cycle. 32nd Annual Meeting of the American Society for Cell Biology. Denver, CO, Nov. 15-19, 1992.
20. Regulation of the G1 to S transition of the cell cycle and environmental mutagenesis by protein phosphorylation. The Waksman Institute, Piscataway, New Jersey, Dec. 7, 1992.
21. Regulation of the G1 to S transition of the cell cycle and environmental mutagenesis by protein phosphorylation. Department of Microbiology and Molecular Genetics, University of Medicine and Dentistry of New Jersey, Newark, New Jersey, Dec. 8, 1992.
22. Regulation of the G1 to S transition of the cell cycle by protein phosphorylation. Department of Biochemistry, Colorado State University, Ft. Collins, CO, Feb. 22, 1993.
23. Regulation of the three R's of DNA metabolism by Cdc7 protein kinase. Department of Biochemistry, University of Utah School of Medicine, Salt Lake City, Utah, April 7, 1993.
24. Regulation of the three R's of DNA metabolism by yeast Cdc7 protein kinase. Somatogenetics, Inc., Boulder, CO, May 12, 1993.

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25. Regulation of Cdc7 protein kinase during the G1 to S phase transition of the yeast cell cycle. **Alberta Heritage Foundation for Medical Research Visiting Lecturer.** Department of Biological Sciences, University of Calgary, Calgary, Alberta, CANADA. September 30, 1993.

26. Cyclin D1 overexpression vs. Rb inactivation: alternate mechanisms of growth control evasion in non-small cell and small cell lung cancer. 7TH World Conference on Lung Cancer, Colorado Springs, CO, June 26-July 1, 1994 (Selected Abstract).

27. Regulation of the cell cycle and environmental mutagenesis by protein phosphorylation. Department of Radiological Health Sciences, Colorado State University, Ft. Collins, CO. May 5, 1994.

28. Molecular Mechanisms of Cdc7 Protein Kinase Regulation During the G1 to S Phase Transition. FASEB Summer Research Conference on Yeast Chromosome Structure, Replication and Segregation. Santa Cruz, CA, July 23-28, 1994.

29. What's new in DNA and Biotechnology. Regis College, Department of Biology, Dec. 2, 1994.

30. The G1 to S phase transition of the cell cycle: lessons from yeast and lung cancer. Department of Biological Sciences, University of California at Santa Cruz, April 4, 1995.

31. The G1 to S phase transition of the cell cycle by Cdc7 protein kinase. Department of Molecular and Cell Biology, University of California at Berkeley, April 5, 1995.

32. The G1 to S phase transition of the cell cycle: lessons from yeast and lung cancer. Department of Microbiology and Immunology, University of California at San Francisco, April 6, 1995.

33. The G1 to S phase transition of the cell cycle: lessons from yeast and lung cancer. Department of Genetics, Genetics Colloquium, University of Wisconsin, Madison, WI. May 10, 1995.

34. Control of the Cell Cycle. Symposium on the Biology of the Skin, sponsored by The Cutaneous Biology Foundation, Inc., Snowmass, CO. July 11-16, 1995.

35. Cdc7 protein kinase regulates the initiation of yeast DNA replication by phosphorylation of the ORC complex. Eukaryotic DNA Replication, Cold Spring Harbor Laboratories, Sept. 6-11, 1995 (selected abstract).

36. The G1 to S phase transition of the cell cycle: lessons from yeast and lung cancer. Department of Biochemistry, Colorado State University, Ft. Collins, CO, Dec. 4, 1995.

37. The G1 to S phase transition of the cell cycle: lessons from yeast and lung cancer. Department of Genetics, University of Washington, Seattle, WA, April 10, 1996.

38. The G1 to S phase transition of the cell cycle: lessons from yeast and lung cancer. Fred Hutchinson Cancer Research Center, Seattle, WA, April 11, 1996.

39. Cdc7 Protein Kinase Regulation During the G1 to S Phase Transition. FASEB Summer Research Conference on Yeast Chromosome Structure, Replication and Segregation. Snowmass, CO, June 15-20, 1996.

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40. Altered Regulation of the G1 to S Phase Transition of the Cell Cycle in Lung Cancer. 5Th International Workshop on Lung Tumor Biology, International Association for the Study of Lung Cancer, Ermatingen, Switzerland, Aug. 13-17, 1996.
41. The G1 to S phase transition of the cell cycle: lessons from yeast and lung cancer. Dept. of Biology, University of Colorado at Colorado Springs. Sept. 25, 1996.
42. Regulation of the G1 to S phase transition of the cell cycle. Invitrogen, Inc. San Diego, CA. Dec. 12, 1996.
43. Cdc7/Dbf4 protein kinase regulates the Licensing of DNA Replication-Department of Molecular and Cellular Biology, University of Arizona, Tuscon, AZ, March 13, 1997.
44. Cdc7 and Cdk Protein Kinases Regulate the Licensing of DNA Replication. Department of Biology, University of Nevada, Reno, Nevada April 14, 1998.
45. The Function and Regulation of Cdc7/Dbf4 kinase in the Initiation of DNA Replication and in DNA Repair. FASEB Summer Research Conference Meeting for "Yeast Chromosome Structure, Replication and Segregation" Aug. 8-13, 1998.
46. Cdc7 and Cdk Protein Kinases Regulate the Licensing of DNA Replication, Department of Molecular Biology, University of Geneva, Sept 18, 1998.
47. Dysregulation of cell cycle in tumors, Annual Congress of the European Respiratory Society, Geneva, Switzerland, Sept. 19-23, 1998.
48. Cdc7 and Cdk Protein Kinases Regulate the Licensing of DNA Replication. ISREC (Swiss Cancer Research Center), Lausanne, Switzerland, Sept 24, 1998.
49. Cdc7 and Cdk Protein Kinases Regulate the Licensing of DNA Replication. Department of Genetics and the Biology of Microorganisms, University of Milan, Milan, Italy, Sept. 28, 1998.
50. The G1 to S phase transition of the cell cycle: lessons from yeast and human cancer cells. Gordon Research Conference on Salivary Glands and Saliva; Ventura, CA, Feb. 21-26, 1999.
51. The Role of Cdc7 and Cdk Protein Kinases in the Cell Cycle of Yeast and Human Cancer Cells. Department of Molecular Medicine, University of Texas HSC, San Antonio, TX, April 20, 1999.
52. Cell Cycle Regulation in Lung Cancer Cells. The IASLC meeting on Lung Tumor Biology, Aspen, CO, Aug. 8-11, 1999.
53. Function and Regulation of Cdc7/Dbf4 kinase in the Initiation of DNA Replication. University of Virginia, Nov. 11, 1999.
54. Function and Regulation of Cdc7/Dbf4 kinase in the Initiation of DNA Replication. University of Miami, April 14, 2000.
55. Function and Regulation of Cdc7/Dbf4 kinase in the Initiation of DNA Replication. Oregon State University, May 12, 2000.

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56. Cdc7/Dbf4 kinase is a regulator of the Mcm helicase during DNA Replication in Yeast. Department of Biochemistry and Cell Biology, SUNY at Stony Brook, NY, August 10, 2000.

57. Cell Cycle Regulators-First Annual Leader Roundtable on "Targeted Therapies in the Treatment of Lung Cancer", Jan. 24-28, 2001, Aspen. Colorado. R. Sclafani was invited speaker.

58. Cdc7 and Cdk Protein Kinases in the Cell Cycle of Yeast and Human Cancer Cells. Dept. of Molecular Biology, University of Wyoming, Laramie, Wyoming. October 5, 2001.

59. Regulation of the G1 to S phase transition of the cell cycle in yeast and human cancer cells. Dept. of Microbiology and Immunology, University of Michigan School of Medicine, Nov. 29, 2001.

60. Regulation of the G1 to S phase transition of the cell cycle in yeast and human cancer cells. University of Iowa Program in Human Cancer Genetics, April 15, 2002.

61. Regulation of the G1 to S phase transition of the cell cycle in yeast and human cancer cells. Stowers Institute, Kansas City, April 30, 2002.

62. Cell cycle regulation of DNA replication and mutagenesis. University of Wisconsin at Milwaukee. Oct. 8, 2002.

63. Cell Cycle Regulators in Head and Neck Cancer. First Annual Opinion Leader Consortium on Novel and Targeted Therapies for Head and Neck Cancer; Feb. 5-9, 2003 in San Juan, P.R.

64. Cell cycle regulation of DNA replication and mutagenesis. University of Colorado at Pueblo, April 3, 2003.

65. Regulation of the MCM helicase by Cdc7-Dbf4, Cdk1-Clb and Rad53 protein kinases: a structure/ function analysis. Eukaryotic DNA Replication, Cold Spring Harbor Laboratories, Sept. 3-7, 2003.

66. Cell cycle regulation of DNA replication and mutagenesis. University of Waterloo, Waterloo, Canada. March 2, 2004.

67. Cell Cycle Regulation of the Fidelity of DNA Replication. Salk Meeting on DNA Replication and Genomic Integrity. Aug. 11-15, San Diego, CA.

68. Regulation of DNA Replication and Fidelity by Cdc7/Dbf4 kinase (DDK). Sept. 14, 2004; Chiron Corporation

69. Control of DNA replication by a Novel DNA Pumping Machine. Sigma Xi Honor Society, CU at Colorado Springs Chapter. Feb. 9, 2005.

70. Control of DNA replication by a Novel DNA Pumping Machine. Dept. of Biology. UCD Feb. 11, 2005.

71. Control of Eukaryotic DNA replication by a Novel DNA Pumping Machine. Tougaloo College, Mississippi, Feb. 28, 2005.

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72. Regulation of Genomic Replication and Fidelity by Cdc7-Dbf4 kinase. Department of Genetics and Development; Columbia University Medical Center, NY. June 3, 2005.
73. A Novel DNA Pumping Machine Regulates DNA Replication in Eukaryotes and Archaea Department of Microbiology and Molecular Genetics, University of Massachusetts, Worcester, MA. Oct. 14, 2005.
74. A Novel DNA Pumping Machine Regulates DNA Replication in Eukaryotes and Archaea. Oxford University Department of Biochemistry, Aug. 4, 2006.
75. Regulation of Genomic Replication and Fidelity by Cdc7-Dbf4 kinase. Department of Pharmaceutical Sciences. UCHSC, Feb. 21, 2007.
76. Regulation of Genomic Replication and Fidelity by Cdc7-Dbf4 kinase. Medical University of South Carolina, Jan. 31, 2008.
77. Potentiation of Radiation Therapy by Resveratrol and Other Stilbenes. International Symposium on Novel Strategies For Targeted Prevention of Cancer; J. Nehru University, New Delhi, India ; Dec. 19-20, 2008.
78. Checkpoint Protein Kinases Regulate DNA replication and Cancer Chemoprevention by Resveratrol. Department of Molecular, Cell and Developmental Biology, University of California, Santa Cruz. October 19, 2009.
79. Regulation of Genomic Replication and Fidelity by Cdc7-Dbf4 and Rad53 kinases. Department of Biological Sciences, Vanderbilt University, Nashville, TN. Dec. 3, 2009.
80. Yeast and Humans in civilization: the science behind a long-standing fermented relationship. Rocky Mountain Microbrewery Symposium. University of Colorado at Colorado Springs. Feb 19, 2010.
81. Checkpoint Protein Kinases Regulate DNA replication and Cancer Chemoprevention by Resveratrol. Department of Food Science and Human Nutrition, Colorado State University, Ft. Collins, CO, April 13, 2010.
82. Checkpoint Protein Kinases Regulate Cancer Chemoprevention by Resveratrol. International Cancer Research Symposium 2010: India. Rajiv Gandhi Biotechnology Center, Thiruvananthapuram, India Dec. 20-22, 2010.
83. Potential Therapeutic Use of Resveratrol for Head and Neck Carcinogenesis in Fanconi Anemia. Fanconi Anemia Research Foundation Annual Meeting. Sept 27-30, 2012. Denver, CO.
84. Molecular Mechanism of Cancer Chemoprevention by Resveratrol. 3rd International Cancer Research Symposium 2012: Defining & Translating Science for Disease Prevention and Therapy, Kolkata, West Bengal, India, December 18–21, 2012.
85. Resveratrol chemoprevention in HNSCC. 2<sup>nd</sup> Annual Alcohol and Cancer Conference, (NIH/NIAAA sponsored) Breckenridge CO, May 11-15, 2013.
86. Mechanism of Action of Resveratrol Nutraceutical in Cancer Prevention. Regis University, Denver, CO, Nov 11, 2013.

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87. The Science of Colorado's Craft Beer, Wine & Spirits Industries; Session Chair at the American Chemical Society Annual Meeting in Denver, CO; March 22-26, 2015

88. Exploitation of DNA Replication Stress and Repair Mechanisms for Cancer Chemoprevention. MUSC (Medical University of South Carolina), Charleston, SC, May 7, 2015.

89. Exploitation of DNA Replication Stress and Repair Mechanisms for Cancer Chemoprevention. Department of Genome Sciences, University of Washington, Seattle, WA, November 12, 2015.

90. Exploitation of DNA Replication Stress and Repair Mechanisms for Cancer. Keynote Speaker at University of Nevada Molecular Biosciences Interdisciplinary Graduate Program Retreat, Aug. 26, 2016.

91. Yeast and Humans in civilization: the science behind a long-standing fermented relationship. Speaker at US National Library of Medicine exhibit at CU AMC Library: From DNA to Beer: Harnessing Nature in Medicine & Industry. Oct 18, 2016.

92. Exploitation of FANC/BRCA DNA Replication Stress and Repair in Cancer. Weill Cornell Medical College, New York, NY. Jan 23, 2017.

#### PREVIOUS TRAINEES

#### GRADUATE STUDENTS TRAINED For Ph.D.

**1. Robert E. Hollingsworth, Jr.** awarded Ph.D. in the laboratory of R.A. Scalfani in Fall of 1990. Thesis title: "Molecular Biology of the *CDC7* Gene and Protein of *Saccharomyces cerevisiae*". Present Position: Director of Cancer Research, MedImmune, Inc., Bethesda, MD

**2. Jin-Yuan Su** awarded Ph.D. in the laboratory of R.A. Scalfani in Spring of 1991. Thesis title: "Molecular Genetics of Yeast and Human dTMP Kinases". Present Position: Professor of Medicine, National Ming University, Taiwan, R.O.C.

**3. Paula M.B. Pahl** awarded Ph.D. in the laboratory of R.A. Scalfani in Spring of 1994. Thesis title: "Molecular studies of the cell cycle gene *BOB1* and the tryptophan permease gene *TSP1* in *Saccharomyces cerevisiae*" Present Position: Retired

**4. Aimee (nee' Brown) Jackson** awarded Ph.D. in the laboratory of R.A. Scalfani in Fall of 1994. Thesis title: "The Cell Cycle Regulation and Function of the *Saccharomyces cerevisiae* Cdc7 Protein Kinase Involved in Mitotic DNA Replication." Present Position: Director of Target Development at Miragen, Inc. in Boulder, CO.

**5. Peter G. Hovland** awarded Ph.D. in the laboratory of R.A. Scalfani in Fall of 1995. Thesis title: "Pak1 is an essential protein kinase that suppresses DNA polymerase a mutations in *Saccharomyces cerevisiae* ". He obtained an M.D. from 1996-2000. Present Position: Opthamologist in private practice in Littleton, CO.

**6. Yiqun (nee' Gui) Shellman** awarded Ph.D. in the laboratory of R.A. Scalfani in Fall of 1997. Thesis title: "Studies of two important kinases involved in cell cycle control from *Saccharomyces*



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*cerevisiae* : Cdc28p and Cdc7p protein kinases". Present Position: Associate Professor, Dept. of Dermatology, University of Colorado SOM.

**7. Guy Oshiro** awarded Ph.D. in the laboratory of R.A. Sclafani in Fall of 1999. Thesis title: "The Regulation of the Cdc7p/Dbf4p Protein Kinase in DNA Replication of *Saccharomyces cerevisiae*". Present Position: Scientific Application Developer at John McNeil & Co., a Bioinformatics firm in San Diego, CA.

**8. Bryn Grimison** awarded Ph.D. in the laboratory of R.A. Sclafani in Winter of 2001. Thesis title: "Regulation of the human cell division cycle by the p16INK4a cyclin-dependent kinase inhibitor and cyclin E". Present Position: Associate Director, KBI Biopharma, Inc., Boulder, CO.

**9. Luis Pessoa-Brandão.** awarded Ph.D. in the laboratory of R.A. Sclafani in summer of 2005. Thesis title: "Genetic and Molecular Studies of *Saccharomyces cerevisiae* Cdc7-Dbf4 kinase function in DNA damaged-induced mutagenesis". Present Position: Scientist, Gevo, Inc., Englewood, CO.

**10. Lora Wilson** awarded Ph.D. in fall of 2006. Awarded **URM NRSA** predoctoral award from NIH/NIGMS. Thesis title: Biochemical Characterization of a MCM protein from the Crenarchaeon *Aeropyrum pernix*. Present Position: Oncology Field Medical Director, Western Division, Pfizer Pharmaceuticals.

**11. Ronn Leon** awarded Ph.D. in fall of 2007. Awarded **URM NRSA** predoctoral award from NIH/NIGMS. Thesis title: Structural and Functional Analysis of Mcm Helicases in Eukaryotic DNA Replication. Present Position: Senior Research Associate, University of Oregon HSC (OHSU).

**12. Daniel Rossbach** awarded Ph.D. in Summer of 2017 Thesis title: Localization of Cdc7 Protein Kinase During DNA Replication in *Saccharomyces cerevisiae*

#### GRADUATE STUDENTS TRAINED For M.S.

**1. Lee Ann Niswander** awarded M.S. in the laboratory of R.A. Sclafani in Spring of 1985. Present Position: Professor, Department of Pediatrics, University of Colorado SOM.

**2. Carolina Gonzalez-Aller** awarded M.S. in the laboratory of R.A. Sclafani in Spring of 1991. Thesis title: "The Physiological Effect of Thymidine Analogs on Yeast *Saccharomyces cerevisiae* and Their Action on DNA Replication and RNA Transcription". Present Position: Unknown

**3. Cassidy Punt** awarded (HMGP) M.S. in the laboratory of R.A. Sclafani in 2012. Present Position: Graduate Student in Physician Assistant's (PA) Program at University of Minnesota.

#### POSTDOCTORAL FELLOWS TRAINED

**1. Margaret van Boldrick, Ph.D.:** 1986-1987. Retired. Madison, WI

**2. Rachel Ostroff, Ph.D.** 1990-1993. Awarded NRSA postdoctoral fellowship from NIH/NIGMS. Presently, she is a Senior Research Scientist at SomaLogic in Boulder, CO.

**3. Irene Schauer, Ph.D., M.D.** 1991-1996. She received a career development award from lung cancer SPORE grant for three years. She obtained her M.D. from 1996-2000. Presently, she is

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an Assistant Professor in the Dept. of Medicine, Division of Endocrinology at the University of Colorado SOM

**4. Anne Galbraith, Ph.D.** 1995-1998. She is currently an Associate Professor in the Dept. of Biology and Microbiology at the University of Wisconsin at La Crosse.

**5. Maria Daly Todd, Ph.D.** 1997-2000. She is currently an Associate Professor in the Dept. of Biology at the University of Texas Southwestern in Georgetown, TX..

**6. Angela Pierce, Ph.D.** 1998-2000. She is currently a Research Fellow in the Dept. of Medicine, Division of Endocrinology at the University of Colorado SOM

**7. Taroh Satoh, M.D.** 2001-2003. He is currently Professor of Oncology at Osaka University in Osaka, Japan.

**8. Paul Dohrmann, Ph.D.** 1995-2002. He is currently a Research Associate in the Department of Biochemistry at University of Colorado at Boulder (C. McHenry Lab).

**9. Teresa Holzen, Ph.D.** 2005-2011. She is currently a Tenured Associate Professor at Mount Mary's College in Milwaukee, WI.

**10. Christopher Josh Ramey, Ph.D.** 2009-2013. He is currently an Assistant Professor at the University of Colorado School of Mines.

**11. Rebecca Ferguson, Ph.D.** 2011-2014. Awarded NRSA postdoctoral fellowship from NIH/NIGMS. She is currently a Professional Research Associate in the Department of Pathology in the University of Colorado SOM

#### SABBATICAL FACULTY

1. Thomas Langan, Ph.D. 1993-1994 (Department of Pharmacology, University of Colorado SOM)-*deceased*.

2. Takenori Takahata, MD, Ph.D. 2010-2011 (Department of Medical Oncology, Hirosaki Univ, Japan)

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TEACHING EXPERIENCE:

**Associate Director** of Basic Sciences of the MSA (Mentored Scholarly Activities) program in School of Medicine 2006-**Present** (25% time)

**Instructor in following courses: Recent Courses**

MOLB7801	Rigor and Reproducibility in Biomedical Research (Course Director)	10 hrs	2017- <b>Present</b>
IDPT 7806/7	Biomedical Sciences Core Course	11hrs	1998- <b>Present</b>
STBB7808	Molecular Interactions	2hrs	2013- <b>Present</b>
PHCL7605	Ethics	2hrs	2015- <b>Present</b>
IDPT5001/2	Molecules to Medicine	5hrs	2005-2016
HMGP7600	Human Genetics	1hr	2001-2015
MOLB 7800	Topics in Molecular Biology	9hrs	2008; 2015

**Previous Teaching:**

Biochemistry BBGN 5000 1991-1994  
Human and Medical Genetics BBGN 5001 1990-2004  
Molecular Genetics MOLB 7624 1985-1997  
Molecular Biology/Biochemistry MOLB 7800 & 7802 (IDPT 7601-2) 1986-1997  
MOLB 7801-Molecular Biology Course-1998; 2003; 2007  
Cell Biology CDB 7604 1988-1994  
Introduction to Molecular Genetics MED 411 1992-1998 (Course for Fellows)  
Conference for Medical Oncology and Hematology Fellows 1996-2002  
Somatic Cell and Molecular Genetics Workshop 1990-93 (NIH sponsored)  
MED 6626 Molecular Biology of Cancer 1998-2005  
IDPT 8008 Preparing for Your Residency 1998-2001  
CLSC 7500 Practical Applications of Molecular and Cell Biology  
Techniques for the Clinical Investigator: 2000-2002  
Course director-Biochemistry BBGN 5000 1991-1994  
Molecular Genetics MOLB 7624 1985-1997  
Topics in Molecular and Cell Biology BBGN 7616 1992-1998  
IDPT 7801/2-Biomedical Sciences Core Course 1998-2006  
CANB7600 Cancer biology 2007-2014

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## CURRENT TRAINEES AND LABORATORY PERSONNEL

### PROFESSIONAL RESEARCH ASSISTANTS

James Dutchik, B.S.

### DEPARTMENTAL, UNIVERSITY AND EDUCATIONAL SERVICE:

#### Current Committees: **Recent**

1. BMG Seminar Committee (Chair) 2010-**Present**
2. MSTP Steering Committee 1999-**Present**
3. GEMS (Graduate Experiences for Multicultural Students) Internship Program 1998-**Present**
4. BMG Dept Executive Committee 2009-**Present**
5. SOM Longitudinal Curriculum Committee (ex-officio) 2011-**Present**
6. BMG Web Site Development Committee 2010-**Present**
7. Molecular Biology Program Director and PI of NIH/NIGMS T32 training grant 2013-**Present**
8. Department of Pediatrics K12 Child Health Research Career Development Award Advisory Committee 2013-**Present**
9. Seminar Committee of the Cancer Biology Graduate Program 2016-**Present**
10. CCTSI (Colorado Clinical Translational Sciences Institute) programs: Novel Clinical and Translational Methods; Pilot Grants 2009-**Present**
11. BMG Post-Tenure Review Committee (Chair) 2014-**Present**
12. BMG Promotions Committee 2014-**Present**
13. Graduate Student Professional Committees 1985-**Present**
14. University of Colorado Medicine (formerly University Physicians, Inc./UPI)-Board of Directors 2015-**Present**
15. AMC Graduate Council 2015-**Present**
16. LCME Self-Study Committee on Faculty Preparation, Productivity, Policies 2015- **Present**
17. SOM Bridge Funding Committee 2016-**Present**
18. SOM Faculty Senate 2016-**Present**
19. Graduate School Career Development Advisory Committee (CDAC) 2016-2017

#### **Previous:**

1. University of Colorado Presidents' Academic Advisory Committee 1986-1988
2. Neuroscience Faculty Search Committee 1991
3. Reviewer- Colorado Institute for Research in Biotechnology 1991
4. Co-chairman of Career Development Program-UCHSC Cancer Center SPORE grant 1992-2002
5. Search Committee for UCHSC Department of Microbiology Chair 1993
6. *Ad Hoc* Committee: Faculty promotions 1986
7. Search Committee for UCHSC Human Medical Genetics Program Director 1995-1996
8. Search Committee for Faculty Position in Department of Pediatrics & The Center for Human Nutrition 1995-1996
9. Grant Reviewer-Colorado Open Seed Grant Program for UC Cancer Center 1995
10. UCHSC Research Development/Review Task Group 1996
11. Mary Kay Breast Cancer Grant Committee of UCHSC Cancer Center 1996
12. UCHSC Graduate and Medical Student Research Symposium (annual meeting)- Co-Chair with Dr. J. Repine 1988-1993.
13. Molecular Biology Program Seminar Program (Chair) 1987-1990
14. Molecular Biology Program Steering Committee 1987-1992
15. Molecular Biology Curriculum Committee (Chair) 1990-1992

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16. American Cancer Society UCHSC Student Fellowship Program- Medical Student Joan Connell in 1992 and undergraduate student Christina Closken (Regis College) in 1991 won these awards to study in my laboratory.
17. UCHSC Summer Fellowship Program-Lisa Belmont was an undergraduate student from CU Boulder who studied in my laboratory in the Summer of 1986. She is now an Assistant Professor at the University of California at Berkeley. She is also a co-author on a publication from my laboratory (Su et al., 1990).
18. UCHSC Doctoral fellowship subcommittee 1986
19. UCHSC Graduate School Executive Committee, UCHSC 1989-present
20. Organizer of Molecular Biology Program Retreat 1990
21. UCHSC Medical Student Special Scholarship Program 1991
22. Lecture in Molecular Biology Mini-Course, "Protein-protein interactions: Isolating the unknown partner", Nov. 3-6, 1992.
23. Human Medical Genetics Program Graduate Steering Committee 1996-2000
24. Organizer of the UCHSC Cancer Center Mini-Symposium on Cell Cycle Control on March 27, 1998
25. Organizer of the UCHSC Cancer Center Mini-Symposium on Telomeres and Cancer 2000
26. Organizer of the UCHSC Cancer Center Mini-Symposium on Cell Cycle Regulation and Cancer 2002
27. Organizer of the UCHSC Cancer Center Mini-Symposium on Growth Factor Receptors and Cancer 2003.
28. UCSHC School of Medicine Standing Committee on Space 1996-1999
29. Molecular Biology Program Student Advisory Program 2000-2001
30. School of Medicine Faculty Senate 1991-2003.
31. Planning and Fiscal Policy Committee of the School of Medicine Faculty Senate 1997-2002.
32. Departmental Graduate School Admissions Committee 1985-Present (Director 1985-2003)
33. Graduate School Executive Committee, UCHSC 1989-2003
34. UCHSC School of Medicine Graduate Futures Subcommittee (Chair) 1996-2003
35. Biomedical Sciences Program (BSP) Steering and Curriculum Committee 1997-2003
36. Departmental Graduate Student Advisor. 1987-2003.
37. Department of Pharmacology and UCHSC Cancer Center Search Committee for Endowed Chair in Cancer Research 2003-2004.
38. Department Promotions and Tenure Committee 1997-2006; Chairman 2000-2001.
39. Departmental Graduate Admissions Committee 1986-2006
40. Medical School Curriculum Committee 1991-2001
41. Molecular Biology Program Faculty Membership Committee 2001-2005
42. Medical School Honors Committee 1986-1991; 2000-2004
43. Dean's Distinguished Seminar Committee 2008-2011
44. BMG Faculty Search Committees 2004-2006; 2007; 2008-2009.
45. Oral and Craniofacial Biology Faculty Search Committee 2005-2007
46. Sadler Memorial Lecture Series Committee (1986-Present; Chairman in 1995, 1998 and 2000; 2010-Present)
47. Department of Radiation Oncology Search Committee for Vice-Chair 2011-2013
48. University of Colorado Cancer Center Search Committee for AD of Basic Sciences 2011-2013
49. University of Colorado Denver Postdoc Advisory Committee 2011-2012
50. Vice-Chancellor's Advisory Committee on Promotions and Tenure 2008-2014
51. Boettcher Foundation Webb-Waring Biomedical Research Award Committee 2012-2013
52. University of Colorado School of Medicine RAC (Research Advisory Committee) 2011-2014; Chair 2013-2014.
53. Search Committee for Chair of Department of Anesthesiology 2014-2015
54. Medical Student Research Track Advisory Committee 2012-2014

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- 55. SOM Committee for the creation of a new Division of Hospital Medicine 2016
- 56. Faculty Membership Committee of the Cancer Biology Graduate Program 2013-2016

### **Educational Service:**

#### **Graduate Student Professional Committees-4 Present committees:**

1. Alexis Zukowski (Aaron Johnson Lab-Mol Biol) Ph.D. CAND
2. Cassi Estrem (Jeff Moore Lab-Mol Biol) Ph.D. CAND
3. Deepanshi Dhar (R. Agarwal Lab-SOP Toxicology) Ph.D. CAND
4. Emmanuel Rosas (Jennifer Richer-Mol Biol-CHAIR) Comps only Fall 2017

#### Previous Thesis and Comprehensive Committees: (The following have graduated or become PhD candidates)

1. Kristin Schaller (Biochem.)-Ph.D. 1988
2. Chris Grant (MICRO)-Ph.D. 1988
3. Charles Parnum (CHEM.ENG.)-M.S. 1987
4. William Taylor (Biochem.)-Ph.D. 1989
5. Seujeung Park (CHEM.ENG.-Rob Davis Lab)-Ph.D. 1989
6. Nabil Ali (Biochem.) M.S. 1989
7. Mary Bradley (Biochem.) M.S. 1990
8. Rachel Ostroff (MICRO) Ph.D. 1990
9. Ann Flower-Hill (Biochem.) Ph.D. 1990
10. David Sundin (Biochem.) Ph.D. 1991
11. Lyle Najita (MICRO) Ph.D. 1991
12. Dave DiGuisto (MICRO-orals only) Ph.D. 1991
13. Louise Miller (PATH) Ph.D. 1992
14. Joanna Reems (Biochem.) Ph.D. 1992
15. Sandra Jacobsen (Biochem.) Ph.D. 1992
16. Todd Knauf (Biochem.) M.S. 1992
17. Simon Hambidge (MICRO & MSTP-orals only) Ph.D. 1992
18. Dee Shortridge (MICRO-orals only) Ph.D. 1992
19. Robert Prince (MICRO) Ph.D. 1993
20. Robbin Brodbeck (Biochem.) Ph.D. 1993
21. Kyle Johnson (Mol. Biol.) Ph.D. 1993
22. Soo-Kyung Oh (Biochem.) Ph.D. 1994
23. Barbara VanRenterghem (Pharm.) Ph.D. 1994
24. Changyu Wang (Micro) Ph.D. 1994
25. Steve Jackson (Biochem.-Chair) Ph.D. 1994
26. Xiaoming Shi (Mol. Biol.) Ph.D. 1996
27. Rebecca Berry (Mol. Biol.) Ph.D. 1996
28. Alvin Plummer (Biochem.) Ph.D. 1996
29. Susan Sleight (Pharm.) Ph.D. 1996
30. Steve Groshong (MSTP-Mol. Biol.) Ph.D. 1997
31. Alicia Rudie Hovland (Mol. Biol.) Ph.D. 1997
32. Nichole Schuek (Koehler Lab CDB) MS 1997
33. Amelia Gardner Fitzpatrick (Maller Lab. MSTP- Pharmacology) Ph.D. 1998
34. Meiping Chang (Jaehning Lab. Mol. Biol.) Ph.D. 1999
35. Jeffrey Dunkelberg, MD (Gutierrez-Hartman Lab.- Mol. Biol.) Ph.D. 1999
36. Chuan Li (Maller Lab. Mol. Biol.) Ph.D. 1999

37. Adela Cota (Vasil Lab. Mol. Biol.) Ph.D. 1999
38. Sang H. Kim (CHAIR-Maller Lab. Mol. Biol.) Ph.D. 1999
39. Paul Cliften (Jaehning Lab. Mol. Biol.) Ph.D. 1999
40. Amy Bernard (Kazlauskas Lab.-Mol. Biol.) Ph.D. 2000
41. Cindy Mamay (School of Pharmacy-K. Van Der Berg Lab) Ph.D. 2000
42. Rebecca Schweppe (CHAIR Gutierrez-Hartman Lab.- Biochem.) Ph.D. 2000
43. Bradley Glover (McHenry Lab-Biochem.) Ph.D. 2001
44. Min-Sun Song (McHenry Lab-Biochem.) Ph.D. 2001
45. Marissa Ehringer (Sikela Lab-HMGP) Ph.D. 2001
46. Qing Wang (Franzussoff Lab-Biochem.) M.S. 2001
47. Bryn Grimison (Sclafani Lab-Mol. Biol.) Ph.D. 2001
48. Brian Tunquist (Maller Lab-Pharm.) Ph.D. 2003
49. Donny Licatalosi (Bentley Lab BMG) Ph.D. 2004
50. Creighton Tuzon (Cooper Lab-BMG) ) Ph.D. 2004
51. Veronica Marin (Evans Lab-Mol. Biol.) Ph.D. 2005
52. Luis Pessoa-Brandão (Sclafani Lab-Mol. Biol.) Ph.D. 2005
53. Ryan Fletcher (Chen Lab-BMG) Ph.D. 2005
54. Michael Humphries (Reyland Lab-CDB) Ph.D. 2005
55. Beth Tamburini (CHAIR-Tyler Lab- Mol. Biol) Ph.D. 2006
56. Tracie Lyons (CHAIR-Anderson Lab-Mol. Biol.) Ph.D. 2006
57. Josh Ramey (Tyler Lab -Mol. Biol.) Ph.D. 2006
58. Jeff Linger (CHAIR-Tyler Lab-BMG) Ph.D. 2006
59. Carrie Eckhart (CHAIR-Megee Lab-Mol. Biol.) Ph.D. 2006
60. Jason Lee (CHAIR-Gemmill Lab-HMGP Ph.D. 2006
61. Andriv Marusik (DeGregori Lab-BMG) Ph.D. 2006
62. Darius Walker (CHAIR-Gutierrez-Hartman Lab- Mol. Biol.) Ph.D. 2007
63. Stephanie Williams (Tyler Lab-Mol. Biol) M.S. 2007
64. Ronn Leon (Sclafani Lab-Mol. Biol.) Ph.D. 2007
65. Alfonso Garridolecca (Comps only-HMGP; transferred to MCDB boulder with Tom Blumenthal)
66. Ted Peters (CHAIR-Mingxia Huang Lab-BMG) Ph.D. 2008
67. Srirupa Roy (R. Agarwal Lab-SOP) Ph.D. 2008
68. Glen Simon (R. Prekeris Lab-CDB) Ph.D. 2008
69. Seth Noone (Tyler Lab-BMG) M.S. 2009
70. Sara Johnson (Bentley Lab- Mol. Biol.) Ph.D. 2009
71. David Truong (Tyler Lab-Mol Biol) M.S. 2009
72. Rebecca Kay Ferguson (CHAIR-Maller Lab-Mol Biol) Ph.D. 2009
73. Kevin T. Bauerle (MSTP-Cancer Biology-Bryan Haugen) Ph.D. 5/2010
74. Jason Feser (Tyler Lab-Mol. Biol.) Ph.D 8/2010
75. Chin-chuan Chen (Jim) (Tyler Lab-BMG) Ph.D 8/2010
76. Xiaorong Wu (Huang Lab-Mol. Biol.) Ph.D 12/2010
77. Scott Noble (Evans Lab-Mol. Biol.) Ph.D 05/2011
78. Matias Casas (DeGregori Lab-Mol Biol) Ph.D. 2011
79. Calvin Henard (Vazquez-Torres Lab-MICRO) Ph.D. 2011
80. Nancy Luong (Mol. Biol.-Megee Lab) Ph.D. CAND-left program in 2012
81. Roberto Perales (CHAIR-Bentley Lab-Mol Biol) Ph.D. 2012
82. Tara Dobson (Krushel Lab-Mol Biol) Ph.D. 2012
83. Chu-An Wang (Ford Lab-Mol Biol) Ph.D. 2012
84. Cassidy Punt (HMGGP-Sclafani Lab) M.S. 2012
85. Jill M. Neiman (MSTP- Pharmacology-XJ Wang Lab) Ph.D. 2013
86. Sangeeta Shrotriya (SOP Pharm Sci-R. Agarwal Lab) Ph.D. 2013
87. Molly Derry (SOP Toxicology-R. Agarwal Lab) Ph.D. 2013

88. Myrriah Chavez (CHAIR-Tyler Lab-Mol. Biol.) Ph.D. 2014
89. Candice Wike (Tyler Lab-Struc. Biol and Biochem.) Ph.D. 2014
90. Jennifer Avena (M. Winey Lab-MCDB at CU Boulder) Ph.D. 2014
91. Julie Woodman (Mol. Biol.-Megee Lab) Ph.D. May 2015
92. Suzi (Debra) Bryan (Mol Biol-Hesselberth lab) Ph.D. July 2015
93. Molly Derry (R. Agarwal Lab-SOP Pharm Sci) Ph.D. July 2015
94. Harold Ting (R. Agarwal Lab-SOP Toxicology) Ph.D. August 2015
95. Michael Holliday (CHAIR-Eisenmesser lab-Mol Biol) Ph.D. Nov 2015
96. Cynthia (néé Tilley) Rigby (R. Agarwal Lab-SOP Toxicology) Ph.D. March 2016
97. Ryan Walsh (Pharmacology-M. Duncan Lab) Ph.D. Summer 2016
98. Deepika Neelakantan (Mol Biol-Heide Ford Lab) Summer 2016
99. Shavidra Shetty (CHAIR-Mol Biol-M. Santiago Lab) M.S. Summer 2016
100. Karina Gomez (Antonio Jimeno Lab-Cancer Bio/MSTP-Comps in Sept 2016)
101. Eric Linklater (Prekeris Lab-Mol Biol/Comps only) PhD Candidate Oct 2016
102. Cera Nieto (Antonio Jimeno Lab-Cancer Bio-Comps only) Ph.D. CAND in Fall of 2016
103. Aaron Issaian (Hansen Lab-STBB Comps Only) Ph.D. CAND in Fall of 2016
104. Adwitiya Kar (CHAIR-Gutierrez-Hartmann Lab-Cancer Biology) Ph.D. in Fall of 2016
105. Ashley Denney (McMurray Lab-Mol Biol/MSTP-Comps Only) PhD CAND in Fall of 2016
106. Jenny Samson (Fujita Lab-Cancer Bio-Comps Only) PhD CAND in March 2017
107. Leila Noetzli (CHAIR-DiPaolo lab-HMGGP) Ph.D. in May of 2017
108. Andrew Weems (McMurray lab-CSD) Ph.D. in June of 2017
109. Esteban Lucero (Hunt Potter Lab-HMGGP) Ph.D. CAND
110. Gabriella Li (Jeff Moore Lab-Mol Biol) PhD CAND in Aug 31 of 2017

#### 4. Graduate and Medical Student Laboratory Rotations:

- Class of '84: Lee Niswander (Biochem.) in 1985  
\*Robert Hollingsworth (Biochem.) in 1985
- Class of '85: \*Jin-Yuan Su (Biochem.) in 1986  
Joanna Reems (Biochem.) in 1986  
Pat Cochran (Biochem.) in 1986
- Class of '86: Glenn Friedman (Biochem.) in 1987  
Nabil Ali (Biochem.) in 1987
- Class of '87: Kyle Johnson (Mol. Biol.) in 1987  
\*Paula Pahl (Biochem.) in 1987  
Todd Knauf (Biochem.) in 1988
- Class of '88: Ben Lieberman (Mol. Biol.) in 1988  
\*Peter Hovland (Biochem.) in 1989
- Class of '89: \*Aimee' Brown (Mol. Biol.) in 1989  
Dean Burkin (Biochem.) in 1990
- Class of '91: Marissa Moyer (Mol. Biol.) in 1991  
\*Yiqun Gui (Biochem.) in 1992  
Anna C. Eppert (Mol. Biol.) in 1992  
Joan Connell (MSTP) in 1992
- Class of '92: Blake Allen (Mol. Biol.) in 1993
- Class of '93: \*Guy Oshiro (Mol. Biol.) in 1993
- Class of '94: Paul Cliften (Mol. Biol.) in 1995
- Class of '95: Rebecca Schweppe (Biochem.) in 1995  
\*Bryn Grimison (Mol. Biol) in 1996  
Nichole Schuek (CDB) in 1996
- Class of '97: Jay Walters (Mol. Biol.) in 1997



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Class of '98: Matt Cheever (Mol. Biol.) in 1998  
\*Luis Pessoa-Brandão (BSP) in 1999  
Class of '99: \*Lora Wilson (Mol. Biol.) in 2000  
Asem Alkhateeb (HMGP) in 2000  
Class of '00: \*Ron Leon (Mol. Biol.) in 2000  
Tim Sample (BMG) in 2000-2001  
Class of '01: Beth Tamburini (BSP) in 2001  
Carrie Eckhart (BSP) in 2002  
Class of '02: Ted Peters (BMG) in 2003  
Class of '03: Jessica Finlay (BMG) in 2003  
Shay Fabbro (HMGP in 2003-2004)  
Class of '04: Rebecca Kay (BSP) Fall 2004  
Class of '05: Alfonso Garridolecca (HMGP) Spring 2006  
Class of '06: Andrew Jacobsen Mol Biol Fall 2006  
Class of '07: Tara Dobson BSP Winter 2007-2008  
Josie Gary HMGP Winter 2007-2008  
Class of '08: Jessica Cuminsky (HMGP) Fall of 2008  
John Sena (Mol Biol) Spring of 2009  
Class of '09: \*Cassidy Punt (HMGP) Winter of 2009  
Julie Woodman (Mol Biol) Spring of 2010  
Class of '10: \*Dan Rossbach (BMG) Spring of 2011  
Class of '11: Leila Noetzli (HMGP) Winter 2011-2012

\*Remained in the laboratory for dissertation

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Other University and community activities:

1. The Community Resources Youth Mentors Program is sponsored by Community Resources, Inc. (Mimi Howard, Project Manager). This program enables gifted students from the Denver Public Schools (Grades 4-12) to learn biochemistry in my laboratory on a part-time basis with graduate students as mentors (1986-1988).
2. A.P. Biology Class at Littleton High School (1992-1993). Student Mentor Program in which students interview a scientist about research careers.
3. United Nations Industrial Development Organization (UNIDO)- International Centre for Genetic Engineering and Biotechnology- Dr. Shahid Jameel was a Guest Scientist in my laboratory in the Summer of 1992.
4. MCDB club at University of Colorado in Boulder (1994 & 1996) . Presentation to undergraduate students about Biomedical Research.
5. Colorado Rural Health Scholars Program (summer 1995): Lecture on Cell Growth and Cancer
6. Unfermentables Homebrew Club (1994) and Aurora FOAM Homebrew Club (1995; 2017): Lecture on Yeast Biology in the Brewing Industry.
7. Legacy 2000 Mentor Program for Science and Math at Legacy High School in Broomfield, CO as headed by teacher Kevin Hammerly. Senior Student Mallory Van Winkle had 40-contact hours in my laboratory for this program. (2002-2003).  
<http://www.broomfieldenterprise.com/broomfield/news/22zleg20.shtml>
8. Café Scientifique-Science for the Public: hosted by the Honorable John Hickenlooper, Mayor of Denver. “Yeast and Humans in Civilization: The science behind a long-standing fermented relationship”. Sept. 27, 2005.
9. Rocky Mountain Microbrewing Symposium XV: “Yeast and Humans in Civilization: The science behind a long-standing fermented relationship”. University of Colorado at Colorado Springs, Feb 19, 2010.
10. “Translational Cancer Research”. Academic Immersion and Community Engagement Program of Colorado. CCTSI Community Liaisons are based in communities and/or community organizations and contribute to a variety of community-engaged research and health programs. Underlying their work is the goal to build bridges between communities and academics. Program is headed by Linda Zittleman, MSPH and Jack Westfall, MD of Family Medicine. Nighthorse Campbell Bldg., UC Denver AMC campus, July 13, 2011.
11. Interviewed by *Cancer Cytopathology*, *The Wine Spectator*, *ACS (American Chemical Society Newsletter)*, *CU Medicine Today* and *Metro Newspaper* in 2014-2015.
12. Guest on “The Healthy Skeptic” and the “Happiness Opportunity & Technology” radio shows in 2015.
13. Judged posters for the Science Fair of the K-12 STEM program of the Pinnacle Charter school in Federal Heights, Colorado in October of 2017.