

CURRICULUM VITAE

CHARLES STUART HOFFMAN

PATENTS

ISSUED

4,914,025 Issue date: 4-3-1990 "Export of intracellular substances"
C. Manoil, J. Beckwith, M. Syvanen, R.R. Isberg, C.S. Hoffman, and A. Wright

14/361,979- Issue date: 11-03-2015- Inhibitors of phosphodiesterase 11 (Pde11) and methods of use to elevate cortisol production - Ozge Ceyhan, Charles Hoffman

PENDING

PCT/US2010/0179158 INHIBITORS OF CYCLIC AMP PHOSPHODIESTERASES- Charles S. Hoffman, F. Douglas Ivey, Arlene Wyman

PCT/US2010/0227853 INHIBITORS OF CYCLIC AMP PHOSPHODIESTERASES- Charles S. Hoffman, F. Douglas Ivey, Arlene Wyman

61/451,739 SMALL MOLECULE INHIBITORS OF THE PDE8 FAMILY OF CYCLIC NUCLEOTIDE PHOSPHODIESTERASES AND THEIR USE TO ELEVATE TESTOSTERONE OR ADRENAL STEROID PRODUCTION- Charles Hoffman, Didem Demirbas-Cakici, Joseph A. Beavo

BIBLIOGRAPHY

1. Truitt, C.L., Hoffman, C.S., and Holt, C.E. (1982). A gene, *alcA*, affecting the life cycle form expressed in *Physarum polycephalum*. *Genetics* **101**: 35-55. **(2 citations)**
2. Malamy, M.H., Rahaim, P.T., Hoffman, C.S., Bagdoyan, D., O'Connor, M.B., and Miller, J.F. (1985). A frameshift mutation at the junction of an IS1 insertion within *lacZ* restores !-

8. Otilie, S., Chernoff, J., Hannig, G., Hoffman, C.S., and Erikson, R.L. (1991). A fission yeast gene encoding a protein with features of protein-tyrosine-phosphatases. *Proc. Natl. Acad. Sci. USA* **88**: 3455-3459. **(49 citations)**
9. Otilie, S., Chernoff, J., Hannig, G., Hoffman, C.S., and Erikson, R.L. (1992). The fission yeast genes *pyp1⁺* and *pyp2⁺* encode protein tyrosine phosphatases that negatively regulate

20. Janoo, R.T.K., Neely, L.A., Braun, B.R., Whitehall, S.K. and Hoffman, C.S. (2001). Transcriptional regulators of the *Schizosaccharomyces pombe fbp1* gene include two redundant Tup1p-like corepressors and the CCAAT binding factor activation complex. *Genetics* **157**: 1205-1215. **(36 citations)**
21. Takagi, T., Cho, E.-J., Janoo, R.T.K., Polodny, V., Takase, Y., Keogh, M.-C., Woo, S., Fresco-Cohen, L.D., Hoffman, C.S. and Buratowski, S. (2002). Divergent subunit interactions among fungal mRNA 5'-capping machineries. *Eukaryotic Cell* **1**: 448-457. **(17 citations)**
22. Schadick, K., Fourcade, H.M., Boumenot, P., Seitz, J.J., Morrell, J.L., Chang, L., Gould, K.L., Partridge, J.F., Allshire, R.C., Kitagawa, K., Hieter, P. and

33. Wang L., Griffiths Jr. K., Zhang Y.Z., Ivey F.D., and Hoffman C.S. (2005). *Schizosaccharomyces pombe* adenylate cyclase suppressor mutations suggest a role for cAMP phosphodiesterase regulation in feedback control of glucose/cAMP signaling. *Genetics* 171:1523-33. **(25 citations)**
34. Hoffman, R.L. and Hoffman C.S. (2006). Cloning the *Schizosaccharomyces pombe* *lys2⁺* gene and construction of new molecular genetic tools. *Current Genetics* 49:414-20. **(6 citations)**
35. Kao R.S., Morreale E., Wang L., Ivey F.D., and Hoffman C.S. (2006). *Schizosaccharomyces pombe* Git1 is a C2-domain protein required for glucose activation of adenylate cyclase. *Genetics* 173:49-61. **(10 citations)**
36. Hirota K., Hoffman C.S., and Ohta K. (2006) Reciprocal nuclear shuttling of two antagonizing Zn-finger proteins that modulates the Tup-family co-repressors function to repress chromatin remodeling. *Eukaryotic Cell* 5: 1980-9. **(17 citations)**
37. Benson L.J., Phillips J.A., Gu Y., Parthun M.R., Hoffman C.S., and Annunziato A.T. (2007) Properties of the Type B Histone Acetyltransferase Hat1: H4 Tail Interaction, Site Preference, and Involvement in DNA Repair. *JBC* 282: 836-42. **(39 citations)**
38. Ivey F.D., Wang L., Demirbas D., Allain C., and Hoffman C.S. (2008) Development of a fission yeast-based high throughput screen to identify chemical regulators of cAMP phosphodiesterases *J. Biomol. Screening* 13: 62-71. **(22 citations)**
39. Leem Y.-E., Ripmaster T., Kelly F., Ebina H., Heincelman M., Zhang K., Grewal S.I.S., Hoffman C. S., and Levin H.L. (2008). The pol II promoters of *Schizosaccharomyces pombe* are targeted by an LTR retrotransposon that is capable of repairing the promoters it disrupts. *Molecular Cell* 30:98-107. **(40 citations)**
40. Alaamery M.A., and Hoffman C.S. (2008). *Schizosaccharomyces pombe* Hsp90/Git10 is required for glucose/cAMP signaling. *Genetics* 178:1927-36. **(12 citations)**
41. Hirota K., Miyoshi T., Kugou K., Hoffman C.S., Shibata T., and Ohta K. (2008). Stepwise chromatin remodeling by a cascade of transcription initiation of non-coding RNAs. *Nature* 456: 130-134. **(146 citations)**
42. Roux A., Alaamery M., Hoffman C.S., Chartrand P., Ferbeyre G., and Rokeach L. (2009). Pro-aging effects of glucose signalling through a G protein-coupled glucose receptor in fission yeast *Plos Genetics*, Mar;5(3):e1000408. Epub 2009 Mar 6. **(44 citations)**
43. Alaamery M.A., Wyman A.R., Ivey F.D., Allain C., Demirbas D., Wang L., Ceyhan O. and Hoffman C.S. (2010). New classes of PDE7 inhibitors

46. Mudge D.K., Hoffman C.A., Lubinski T.J., and Hoffman C.S. (2012). Use of a *ura5⁺-lys7⁺* cassette to construct unmarked gene knock-ins in *Schizosaccharomyces pombe*, *Current Genetics*, 58: 59-64. **(10 citations)**
47. Ceyhan O., Birsoy K., and Hoffman C.S. (2012). Identification of biologically active PDE11-selective inhibitors using a yeast-

OTHER WRITINGS

Hoffman, C.S. (1995). Preparation of Yeast DNA. in Current Protocols in Molecular Biology Ausubel F. M., R. Brent, R. E. Kingston, D. D. Moore, J. G. Seidman, J. A. Smith, and K. Struhl (ed.). 1995. Wiley Interscience, New York. pages 13.11.1- 13.11.4 **(62 citations)**

Ivey, F.D. and Hoffman C.S. (2002). Preview: Pseudostructural inhibitors of G protein signaling during development. *Dev. Cell* 3: 154-155. **(3 citations)**

Hoffman, C.S. (2007). Propping up our knowledge of G protein signaling pathways: diverse functions of putative noncanonical G! subunits in fungi. *Sci STKE*. Jan 23;2007(370):pe3. **(7 citations)**

Hoffman, C.S., Wood, V. and Fantes, P.A. (2015) An Ancient Yeast for Young Geneticists: A Primer on the *Schizosaccharomyces pombe* Model System. *Genetics*, 201: 403-423. **(31 citations)**

Fantes P.A. and Hoffman C.S. (2016). A Brief History of *Schizosaccharomyces pombe* Research: A Perspective Over the Past 70 Years. *Genetics*, 203:621-

Dates: 7-1-96 to 6-30-01.

Dates: 01-15-18 to 07-15-19

\$200,000 direct

INVITED SPEAKER

- 1991- Cold Spring Harbor Fission Yeast Course- 11-2-1991
M.I.T./Whitehead Cell and Molecular Biology Seminar Series 12-13-1991
- 1992- Cold Spring Harbor Fission Yeast Course- 11-6-1992
- 1993- Mitotix Inc., Cambridge, MA - 5-27-1993
Cold Spring Harbor Fission Yeast Course-

- Bar Harbor, Maine
- 2009- Fifth International Fission Yeast Meeting (Tokyo, Japan)
- 2010- Gordon Research Conference on Cyclic Nucleotide Phosphodiesterases 6-16-10
Stonehill College Biology Department 10-22-10
University of Glasgow Department of Neuroscience and Molecular Pharmacology 11-12-10
University of Edinburgh School of Biological Sciences 11-19-10
- 2011- St. Louis University Department of Biology- 3-25-11
Queens University Biology Department (Kingston, Ontario)- 6-15-11
Sixth International Fission Yeast Meeting (Boston, MA)- 6-26-11
- 2012- Yeast Genetics and Molecular Biology Meeting (Princeton, NJ)- 8-2-12
- 2013- University of Western Ontario Biology Seminar- 3-8-13
Seventh International Fission Yeast Meeting (London)- 6-25-13
Third International Workshop on cAMP signaling, Protein kinase A, and

Organizing Committee and Session Chair for the Eighth International Fission Yeast (2015)
Kobe, Japan

Organizing Committee and Workshop Chair for Ninth International Fission Yeast (2017)
Banff, Canada

Organizing Committee and Session Chair for the Tenth International Fission Yeast (2019)
Barcelona, Spain

Ad hoc grant reviewer

National Institutes of Health
American Cancer Society
National Science Foundation
The Israel Science Foundation
Vanderbilt University Intramural Discovery Grants Program
Junior Faculty Promotions Committee- Katholieke Universiteit, Leuven, Belgium
Alberta Heritage Foundation for Medical Research
Canadian Institutes of Health Research
Marsden Fund-Royal Society of New Zealand

Referee manuscripts for professional journals

Proc. Natl. Acad. Sci USA	Genes and Development	Genetics
Molecular and Cellular Biology	Molecular Microbiology	Journal of Cell Science
Journal of Biological Chemistry	Biotechniques	Appl. and Envir. Microbiology
Nucleic Acids Research	Journal of Bacteriology	Bioorg & Med Chem Letters
Canadian Journal of Microbiology	Gene	Fungal Genetics and Biology
Current Genetics	Yeast	Mol. Biol. of the Cell
Eukaryotic Cell	Nature Methods	Microbiology
Genes to Cells	Differentiation	PloS One
PloS Genetics	Cellular Signalling	Science Signaling

Editorial Boards

Eukaryotic Cell -2004 to 2015

Current Genetics- 2005 to present (Associate Editor)

G3: Genes, Genomes, and the Environment 0.24 0 0 0.0.2 0.24 0 0.24 484.8738 330.72cm B20 0 0 20 0 0Tm /TT1 1 1