

Stanford



Robert Sapolsky

John A. and Cynthia Fry Gunn Professor and Professor of Neurology and of
Neurosurgery
Biology

Bio

ACADEMIC APPOINTMENTS

- Professor, Biology
- Professor, Neurology & Neurological Sciences
- Professor, Neurosurgery
- Member, Bio-X
- Member, Stanford Neurosciences Institute

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Neuron death, stress, gene therapy

Teaching

COURSES

2016-17

- Cell Biology and Animal Physiology: BIO 42 (Win)
- Mechanisms of Neuron Death: BIO 151 (Aut)

2015-16

- Cell Biology and Animal Physiology: BIO 42 (Win)
- Human Behavioral Biology: BIO 150, HUMBIO 160 (Spr)
- Mechanisms of Neuron Death: BIO 151 (Aut)

2014-15

- Cell Biology and Animal Physiology: BIO 42 (Win)

2013-14

- Cell Biology and Animal Physiology: BIO 42 (Win)
- Human Behavioral Biology: BIO 150, BIO 250, HUMBIO 160 (Spr)
- Mechanisms of Neuron Death: BIO 151 (Aut)
- Molecular and Cellular Mechanisms of Neurological Disease: BIO 165 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Ryan York

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biology (School of Humanities and Sciences) (Phd Program)
- Neurosciences (Phd Program)

Publications

PUBLICATIONS

- **Disruption of Fear Memory Through Dual-Hormone Gene Therapy** *BIOLOGICAL PSYCHIATRY*
Rodrigues, S. M., Sapolsky, R. M.
2009; 65 (5): 441-444
- **Blocking glucocorticoid and enhancing estrogenic genomic signaling protects against cerebral ischemia** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
Cheng, M. Y., Sun, G., Jin, M., Zhao, H., Steinberg, G. K., Sapolsky, R. M.
2009; 29 (1): 130-136
- **Effects of enrichment predominate over those of chronic stress on fear-related behavior in male rats** *STRESS-THE INTERNATIONAL JOURNAL ON THE BIOLOGY OF STRESS*
Mitra, R., Sapolsky, R. M.
2009; 12 (4): 305-312
- **Acute corticosterone treatment is sufficient to induce anxiety and amygdaloid dendritic hypertrophy** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Mitra, R., Sapolsky, R. M.
2008; 105 (14): 5573-5578
- **Anti-apoptotic therapy with a Tat fusion protein protects against excitotoxic insults in vitro and in vivo** *EXPERIMENTAL NEUROLOGY*
Ju, K. L., Manley, N. C., Sapolsky, R. M.
2008; 210 (2): 602-607
- **Hypothermia blacks beta-catenin degradation after focal ischemia in rats** *BRAIN RESEARCH*
Zhang, H., Ren, C., Gao, X., Takahashi, T., Sapolsky, R. M., Steinberg, G. K., Zhao, H.
2008; 1198: 182-187
- **General versus specific actions of mild-moderate hypothermia in attenuating cerebral ischemic damage** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
Zhao, H., Steinberg, G. K., Sapolsky, R. M.
2007; 27 (12): 1879-1894
- **Characterization of monocyte chemoattractant protein-1 expression following a kainate model of status epilepticus** *BRAIN RESEARCH*
Manley, N. C., Bertrand, A. A., Kinney, K. S., Hing, T. C., Sapolsky, R. M.
2007; 1182: 138-143
- **Viral caspase inhibitor p35, but not crmA, is neuroprotective in the ischemic penumbra following experimental stroke** *NEUROSCIENCE*
Sung, J. H., Zhao, H., Roy, M., Sapolsky, R. M., Steinberg, G. K.
2007; 149 (4): 804-812
- **Conditions of protection by hypothermia and effects on apoptotic pathways in a rat model of permanent middle cerebral artery occlusion** *JOURNAL OF NEUROSURGERY*
Zhao, H., Wang, J. Q., Shimohata, T., Sun, G., Yenari, M. A., Sapolsky, R. M., Steinberg, G. K.
2007; 107 (3): 636-641

- **The effects of toxoplasma infection on rodent behavior are dependent on dose of the stimulus** *NEUROSCIENCE*
Vyas, A., Kim, S., Sapolsky, R. M.
2007; 148 (2): 342-348
- **Behavioral changes induced by Toxoplasma infection of rodents are highly specific to aversion of cat odors** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Vyas, A., Kim, S., Giacomini, N., Boothroyd, J. C., Sapolsky, R. M.
2007; 104 (15): 6442-6447
- **An inflammatory review of glucocorticoid actions in the CNS** *BRAIN BEHAVIOR AND IMMUNITY*
Sorrells, S. F., Sapolsky, R. M.
2007; 21 (3): 259-272
- **Gene therapy using SOD1 protects striatal neurons from experimental stroke** *NEUROSCIENCE LETTERS*
Davis, A. S., Zhao, H., Sun, G. H., Sapolsky, R. M., Steinberg, G. K.
2007; 411 (1): 32-36
- **Phosphoinositide-3-kinase/Akt survival signal pathways are implicated in neuronal survival after stroke** *MOLECULAR NEUROBIOLOGY*
Zhao, H., Sapolsky, R. M., Steinberg, G. K.
2006; 34 (3): 249-269
- **Interrupting reperfusion as a stroke therapy: ischemic postconditioning reduces infarct size after focal ischemia in rats** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
Zhao, H., Sapolsky, R. M., Steinberg, G. K.
2006; 26 (9): 1114-1121
- **Sleep restriction suppresses neurogenesis induced by hippocampus-dependent learning** *JOURNAL OF NEUROPHYSIOLOGY*
Hairston, I. S., Little, M. T., Scanlon, M. D., Barakat, M. T., Palmer, T. D., Sapolsky, R. M., Heller, H. C.
2005; 94 (6): 4224-4233
- **Akt contributes to neuroprotection by hypothermia against cerebral ischemia in rats** *JOURNAL OF NEUROSCIENCE*
Zhao, H., Shimohata, T., Wang, J. Q., Sun, G. H., Schaal, D. W., Sapolsky, R. M., Steinberg, G. K.
2005; 25 (42): 9794-9806
- **Biphasic cytochrome c release after transient global ischemia and its inhibition by hypothermia** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
Zhao, H., Yenari, M. A., Cheng, D., Sapolsky, R. M., Steinberg, G. K.
2005; 25 (9): 1119-1129
- **The influence of social hierarchy on primate health** *SCIENCE*
Sapolsky, R. M.
2005; 308 (5722): 648-652
- **Gene therapy in neurological disease.** *Methods in molecular medicine*
Yenari, M. A., Sapolsky, R. M.
2005; 104: 75-88
- **Organismal stress and telomeric aging: An unexpected connection** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Sapolsky, R. M.
2004; 101 (50): 17323-17324
- **The frontal cortex and the criminal justice system** *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
Sapolsky, R. M.
2004; 359 (1451): 1787-1796
- **Restructuring the neuronal stress response with anti-glucocorticoid gene delivery** *NATURE NEUROSCIENCE*
Kaufer, D., Ogle, W. O., Pincus, Z. S., Clark, K. L., Nicholas, A. C., Dinkel, K. M., Dumas, T. C., Ferguson, D., Lee, A. L., Winters, M. A., Sapolsky, R. M.
2004; 7 (9): 947-953

- **Is impaired neurogenesis relevant to the affective symptoms of depression?** *BIOLOGICAL PSYCHIATRY*
Sapolsky, R. M.
2004; 56 (3): 137-139
- **Dual-gene, dual-cell type therapy against an excitotoxic insult by bolstering neuroenergetics** *JOURNAL OF NEUROSCIENCE*
Bliss, T. M., Ip, M., Cheng, E., Minami, M., Pellerin, L., Magistretti, P., Sapolsky, R. M.
2004; 24 (27): 6202-6208
- **Glucocorticoids influence brain glycogen levels during sleep deprivation** *AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY*
Gip, P., Hagiwara, G., Sapolsky, R. M., Cao, V. H., Heller, H. C., Ruby, N. F.
2004; 286 (6): R1057-R1062
- **Bcl-2 transfection via herpes simplex virus blocks apoptosis-inducing factor translocation after focal ischemia in the rat** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
Zhao, H., Yenari, M. A., Cheng, D., Barreto-Chang, O. L., Sapolsky, R. M., Steinberg, G. K.
2004; 24 (6): 681-692
- **A pacific culture among wild baboons: its emergence and transmission.** *PLoS biology*
Sapolsky, R. M., Share, L. J.
2004; 2 (4): E106-?
- **Sleep deprivation effects on growth factor expression in neonatal rats: A potential role for BDNF in the mediation of delta power** *JOURNAL OF NEUROPHYSIOLOGY*
Hairston, I. S., Peyron, C., Denning, D. P., Ruby, N. F., Flores, J., Sapolsky, R. M., Heller, H. C., O'Hara, B. F.
2004; 91 (4): 1586-1595
- **Catalase over-expression protects striatal neurons from transient focal cerebral ischemia** *NEUROREPORT*
Gu, W. P., Zhao, H., Yenari, M. A., Sapolsky, R. M., Steinberg, G. K.
2004; 15 (3): 413-416
- **Mild postischemic hypothermia prolongs the time window for gene therapy by inhibiting cytochrome C release** *STROKE*
Zhao, H., Yenari, M. A., Sapolsky, R. M., Steinberg, G. K.
2004; 35 (2): 572-577
- **Neurotoxic effects of polymorphonuclear granulocytes on hippocampal primary cultures** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Dinkel, K., Dhabhar, F. S., Sapolsky, R. M.
2004; 101 (1): 331-336
- **Overexpression of calbindin D-28k in dentate gyrus granule cells alters mossy fiber presynaptic function and impairs hippocampal-dependent memory** *HIPPOCAMPUS*
Dumas, T. C., Powers, E. C., Tarapore, P. E., Sapolsky, R. M.
2004; 14 (6): 701-709
- **Stress and plasticity in the limbic system** *NEUROCHEMICAL RESEARCH*
Sapolsky, R. M.
2003; 28 (11): 1735-1742
- **The neuroprotective effects of virally-derived caspase inhibitors p35 and crmA following a necrotic insult** *NEUROBIOLOGY OF DISEASE*
Roy, M., Sapolsky, R. M.
2003; 14 (1): 1-9
- **Glutathione peroxidase overexpression inhibits cytochrome c release and proapoptotic mediators to protect neurons from experimental stroke** *STROKE*
Hoehn, B., Yenari, M. A., Sapolsky, R. M., Steinberg, G. K.
2003; 34 (10): 2489-2494
- **Potassium channel gene therapy can prevent neuron death resulting from necrotic and apoptotic insults** *JOURNAL OF NEUROCHEMISTRY*
Lee, A. L., Dumas, T. C., Tarapore, P. E., Webster, B. R., Ho, D. Y., Kaufer, D., Sapolsky, R. M.
2003; 86 (5): 1079-1088

- **Altering behavior with gene transfer in the limbic system** *11th Annual Meeting of the International-Behavioral-Neuroscience-Society (IBNS)*
Sapolsky, R. M.
PERGAMON-ELSEVIER SCIENCE LTD.2003: 479-86
- **gp120 neurotoxicity fails to induce heat shock defenses, while the over expression of hsp70 protects against gp120** *BRAIN RESEARCH BULLETIN*
Lim, M. C., Brooke, S. M., Sapolsky, R. M.
2003; 61 (2): 183-188
- **Effects of glucocorticoids in the gp120-induced inhibition of glutamate uptake in hippocampal cultures** *BRAIN RESEARCH*
Brooke, S. M., Sapolsky, R. M.
2003; 972 (1-2): 137-141
- **Bcl-2 overexpression protects against neuron loss within the ischemic margin following experimental stroke and inhibits cytochrome c translocation and caspase-3 activity** *JOURNAL OF NEUROCHEMISTRY*
Zhao, H., Yenari, M. A., Cheng, D. Y., Sapolsky, R. M., Steinberg, G. K.
2003; 85 (4): 1026-1036
- **Novel glucocorticoid effects on acute inflammation in the CNS** *JOURNAL OF NEUROCHEMISTRY*
Dinkel, K., Macpherson, A., Sapolsky, R. M.
2003; 84 (4): 705-716
- **Gene therapy for psychiatric disorders** *AMERICAN JOURNAL OF PSYCHIATRY*
Sapolsky, R. M.
2003; 160 (2): 208-220
- **Gene therapy and hypothermia for stroke treatment** *6th International Conference on Neuroprotective Agents*
Yenari, M. A., Zhao, H., Giffard, R. G., Sobel, R. A., Sapolsky, R. M., Steinberg, G. K.
NEW YORK ACAD SCIENCES.2003: 54-68
- **Neuroprotective gene therapy against acute neurological insults** *NATURE REVIEWS NEUROSCIENCE*
Sapolsky, R. M.
2003; 4 (1): 61-69
- **The exacerbation of hippocampal excitotoxicity by glucocorticoids is not mediated by apoptosis** *NEUROENDOCRINOLOGY*
Roy, M., Sapolsky, R. M.
2003; 77 (1): 24-31
- **Protection against gp120-induced neurotoxicity by an array of estrogenic steroids** *BRAIN RESEARCH*
Zemlyak, I., Brooke, S. M., Sapolsky, R. M.
2002; 958 (2): 272-276
- **Glucocorticoids and central nervous system inflammation** *JOURNAL OF NEUROVIROLOGY*
Dinkel, K., Ogle, W., Sapolsky, R. M.
2002; 8 (6): 513-528
- **Glucocorticoid exacerbation of gp120 neurotoxicity: Role of microglia** *EXPERIMENTAL NEUROLOGY*
Brooke, S. M., Sapolsky, R. M.
2002; 177 (1): 151-158
- **Gene transfer of HSP72 protects cornu ammonis 1 region of the hippocampus neurons from global ischemia: Influence of Bcl-2** *ANNALS OF NEUROLOGY*
Kelly, S., Zhang, Z. J., Zhao, H., Xu, L. J., Giffard, R. G., Sapolsky, R. M., Yenari, M. A., Steinberg, G. K.
2002; 52 (2): 160-167
- **Distributing behaviors of the Orangutan** *SCIENTIFIC AMERICAN*
Maggioncalda, A. N., Sapolsky, R. M.
2002; 286 (6): 60-65
- **Male orangutan subadulthood: A new twist on the relationship between chronic stress and developmental arrest** *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY*
Maggioncalda, A. N., Czekala, N. M., Sapolsky, R. M.

2002; 118 (1): 25-32

- **Stress and depression: possible links to neuron death in the hippocampus** *BIPOLAR DISORDERS*
Lee, A. L., Ogle, W. O., Sapolsky, R. M.
2002; 4 (2): 117-128
- **Effect of GP120 on glutathione peroxidase activity in cortical cultures and the interaction with steroid hormones** *JOURNAL OF NEUROCHEMISTRY*
Brooke, S. M., McLaughlin, J. R., Cortopassi, K. M., Sapolsky, R. M.
2002; 81 (2): 277-284
- **HSV-mediated delivery of virally derived anti-apoptotic genes protects the rat hippocampus from damage following excitotoxicity, but not metabolic disruption** *GENE THERAPY*
Roy, M., Hom, J. J., Sapolsky, R. M.
2002; 9 (3): 214-219
- **Gene therapy against neurological insults: sparing neurons versus sparing function** *TRENDS IN NEUROSCIENCES*
Dumas, T. C., Sapolsky, R. M.
2001; 24 (12): 695-700
- **Sleep deprivation elevates plasma corticosterone levels in neonatal rats** *NEUROSCIENCE LETTERS*
Hairston, I. S., Ruby, N. F., Brooke, S., Peyron, C., Denning, D. P., Heller, H. C., Sapolsky, R. M.
2001; 315 (1-2): 29-32
- **Overexpression of HSP72 after induction of experimental stroke protects neurons from ischemic damage** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
Hoehn, B., Ringer, T. M., Xu, L. J., Giffard, R. G., Sapolsky, R. M., Steinberg, G. K., Yenari, M. A.
2001; 21 (11): 1303-1309
- **Depression, antidepressants, and the shrinking hippocampus** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Sapolsky, R. M.
2001; 98 (22): 12320-12322
- **Gene therapy and the aging nervous system** *MECHANISMS OF AGEING AND DEVELOPMENT*
Ogle, W. O., Sapolsky, R. M.
2001; 122 (14): 1555-1563
- **Neuroprotective effects of an adenoviral vector expressing the glucose transporter: a detailed description of the mediating cellular events** *BRAIN RESEARCH*
Gupta, A., Ho, D. Y., Brooke, S., Franklin, L., Roy, M., MCLAUGHLIN, J., Fink, S. L., Sapolsky, R. M.
2001; 908 (1): 49-57
- **Gene therapy for treatment of cerebral ischemia using defective herpes simplex viral vectors** *NEUROLOGICAL RESEARCH*
Yenari, M. A., Dumas, T. C., Sapolsky, R. M., Steinberg, G. K.
2001; 23 (5): 543-552
- **Differential sensitivity of murine astrocytes and neurons from different brain regions to injury** *EXPERIMENTAL NEUROLOGY*
Xu, L. J., Sapolsky, R. M., Giffard, R. G.
2001; 169 (2): 416-424
- **Neuroprotection with herpes simplex vectors expressing virally derived anti-apoptotic agents** *BRAIN RESEARCH*
Roy, M., Hom, J., Sapolsky, R. M.
2001; 901 (1-2): 12-22
- **Interactions among glucose, lactate and adenosine regulate energy substrate utilization in hippocampal cultures** *BRAIN RESEARCH*
Bliss, T. M., Sapolsky, R. M.
2001; 899 (1-2): 134-141
- **Mechanisms of estrogenic protection against gp120-induced neurotoxicity** *EXPERIMENTAL NEUROLOGY*
Howard, S. A., Brooke, S. M., Sapolsky, R. M.
2001; 168 (2): 385-391

- **Gene therapy effectiveness differs for neuronal survival and behavioral performance** *GENE THERAPY*
Phillips, R. G., Monje, M. L., Giuli, L. C., Meier, T. J., Yenari, M. A., Kunis, D., Sapolsky, R. M.
2001; 8 (8): 579-585
- **Calbindin D28K overexpression protects striatal neurons from transient focal cerebral ischemia** *STROKE*
Yenari, M. A., Minami, M., Sun, G. H., Meier, T. J., Kunis, D. M., McLaughlin, J. R., Ho, D. Y., Sapolsky, R. M., Steinberg, G. K.
2001; 32 (4): 1028-1035
- **Cellular defenses against excitotoxic insults** *JOURNAL OF NEUROCHEMISTRY*
Sapolsky, R. M.
2001; 76 (6): 1601-1611
- **Gene therapy for treatment of cerebral ischemia using defective herpes simplex viral vectors** *5th International Conference on Neuroprotective Agents*
Yenari, M. A., Dumas, T. C., Sapolsky, R. M., Steinberg, G. K.
NEW YORK ACAD SCIENCES.2001: 340-357
- **Atrophy of the hippocampus in posttraumatic stress disorder: How and when?** *HIPPOCAMPUS*
Sapolsky, R. M.
2001; 11 (2): 90-91
- **Gene therapies that enhance hippocampal neuron survival after an excitotoxic insult are not equivalent in their ability to maintain synaptic transmission** *EXPERIMENTAL NEUROLOGY*
Dumas, T. C., McLaughlin, J. R., Ho, D. Y., Lawrence, M. S., Sapolsky, N. M.
2000; 166 (1): 180-189
- **The effects of steroid hormones in HIV-related neurotoxicity: A mini review** *BIOLOGICAL PSYCHIATRY*
Brooke, S. M., Sapolsky, R. M.
2000; 48 (9): 881-893
- **The possibility of neurotoxicity in the hippocampus in major depression: A primer on neuron death** *Conference on Depression in the 21st Century: New Insight into Drug Development and Neurobiology*
Sapolsky, R. M.
ELSEVIER SCIENCE INC.2000: 755-65
- **Glucocorticoids and hippocampal atrophy in neuropsychiatric disorders** *ARCHIVES OF GENERAL PSYCHIATRY*
Sapolsky, R. M.
2000; 57 (10): 925-935
- **Stress hormones: Good and bad** *Symposium on Neuroscience 2000: a New Era of Discovery*
Sapolsky, R. M.
ACADEMIC PRESS INC ELSEVIER SCIENCE.2000: 540-42
- **Reply** *Trends in neurosciences*
Roy, SAPOLSKY
2000; 23 (9): 411-?
- **Long-term expression driven by herpes simplex virus type-1 amplicons may fail due to eventual degradation or extrusion of introduced transgenes** *EXPERIMENTAL NEUROLOGY*
Tsai, D. J., Ho, J. J., Ozawa, C. R., Sapolsky, R. M.
2000; 165 (1): 58-65
- **Neuroprotective potential of a viral vector system induced by a neurological insult** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Ozawa, C. R., Ho, J. J., Tsai, D. J., Ho, D. Y., Sapolsky, R. M.
2000; 97 (16): 9270-9275
- **Limitations in the neuroprotective potential of gene therapy with Bcl-2** *BRAIN RESEARCH*
Phillips, R. G., Lawrence, M. S., Ho, D. Y., Sapolsky, R. M.
2000; 859 (2): 202-206

- **An adenoviral vector expressing the glucose transporter protects cultured striatal neurons from 3-nitropropionic acid** *BRAIN RESEARCH*
Fink, S. L., Ho, D. Y., MCLAUGHLIN, J., Sapolsky, R. M.
2000; 859 (1): 21-25
- **A cautionary note: The actions of adenosine agonists and antagonists may be reversed under certain conditions in primary cultures** *BRAIN RESEARCH BULLETIN*
Brooke, S. M., Sapolsky, R. M.
2000; 51 (4): 307-312
- **How do glucocorticoids influence stress responses? Integrating permissive, suppressive, stimulatory, and preparative actions** *ENDOCRINE REVIEWS*
Sapolsky, R. M., Romero, L. M., Munck, A. U.
2000; 21 (1): 55-89
- **Alzheimer's disease and some speculations about the evolution of its modifiers** *Conference on Towards a Comprehensive Theory for Alzheimers Disease*
Sapolsky, R. M., Finch, C. E.
NEW YORK ACAD SCIENCES.2000: 99-103
- **Growth hormone and thyroid stimulating hormone concentrations in captive male orangutans: Implications for understanding developmental arrest** *AMERICAN JOURNAL OF PRIMATOLOGY*
Maggioncalda, A. N., Czekala, N. M., Sapolsky, R. M.
2000; 50 (1): 67-76
- **Gene therapy using viral vectors for acute neurologic insults** *NEUROLOGY*
Sapolsky, R. M., Steinberg, G. K.
1999; 53 (9): 1922-1931
- **The neuroprotective potential of heat shock protein 70 (HSP70)** *MOLECULAR MEDICINE TODAY*
Yenari, M. A., Giffard, R. G., Sapolsky, R. M., Steinberg, G. K.
1999; 5 (12): 525-531
- **Calbindin D-28K gene transfer via herpes simplex virus amplicon vector decreases hippocampal damage in vivo following neurotoxic insults** *JOURNAL OF NEUROCHEMISTRY*
Phillips, R. G., Meier, T. J., Giuli, L. C., McLaughlin, J. R., Ho, D. Y., Sapolsky, M. R.
1999; 73 (3): 1200-1205
- **Glucocorticoids, stress, and their adverse neurological effects: relevance to aging** *EXPERIMENTAL GERONTOLOGY*
Sapolsky, R. M.
1999; 34 (6): 721-732
- **Glucocorticoid modulation of gp120-induced effects on calcium-dependent degenerative events in primary hippocampal and cortical cultures** *EXPERIMENTAL NEUROLOGY*
Howard, S. A., Nakayama, A. Y., Brooke, S. M., Sapolsky, R. M.
1999; 158 (1): 164-170
- **Quantification of neuron survival in monolayer cultures using an enzyme-linked immunosorbent assay approach, rather than by cell counting** *NEUROSCIENCE LETTERS*
Brooke, S. M., Bliss, T. M., Franklin, L. R., Sapolsky, R. M.
1999; 267 (1): 21-24
- **Reproductive hormone profiles in captive male orangutans: Implications for understanding developmental arrest** *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY*
Maggioncalda, A. N., Sapolsky, R. M., Czekala, N. M.
1999; 109 (1): 19-32
- **In vivo characterization of 11 beta-hydroxysteroid dehydrogenase in rat hippocampus using glucocorticoid neuroendangerment as an endpoint** *NEUROENDOCRINOLOGY*
Ajilore, O. A., Sapolsky, R. M.
1999; 69 (2): 138-144
- **Gene therapy for acute neurological insults.** *Neurology*
Sapolsky R, Steinberg G

1999; 1922

- **An outsider's commentary.** *Advances in mind-body medicine*
Sapolsky, R. M.
1999; 15 (1): 72-75
- **Glucocorticoids interact with gp120 in causing neurotoxicity in striatal cultures** *BRAIN RESEARCH*
Iyer, A. M., Brooke, S. M., Sapolsky, R. M.
1998; 808 (2): 305-309
- **Gene therapy with HSP72 is neuroprotective in rat models of stroke and epilepsy** *ANNALS OF NEUROLOGY*
Yenari, M. A., Fink, S. L., Sun, G. H., Chang, L. K., Patel, M. K., Kunis, D. M., Onley, D., Ho, D. Y., Sapolsky, R. M., Steinberg, G. K.
1998; 44 (4): 584-591
- **Gene transfer of calbindin D-28k cDNA via herpes simplex virus amplicon vector decreases cytoplasmic calcium ion response and enhances neuronal survival following glutamatergic challenge but not following cyanide** *JOURNAL OF NEUROCHEMISTRY*
Meier, T. J., Ho, D. Y., Park, T. S., Sapolsky, R. M.
1998; 71 (3): 1013-1023
- **Energy dependency of glucocorticoid exacerbation of gp120 neurotoxicity** *JOURNAL OF NEUROCHEMISTRY*
Brooke, S. M., Howard, S. A., Sapolsky, R. M.
1998; 71 (3): 1187-1193
- **Glucocorticoids may alter antioxidant enzyme capacity in the brain: kainic acid studies** *BRAIN RESEARCH*
McIntosh, L. J., Cortopassi, K. M., Sapolsky, R. M.
1998; 791 (1-2): 215-222
- **Glucocorticoids may alter antioxidant enzyme capacity in the brain: baseline studies** *BRAIN RESEARCH*
McIntosh, L. J., Hong, K. E., Sapolsky, R. M.
1998; 791 (1-2): 209-214
- **Darting terrestrial primates in the wild: A primer** *AMERICAN JOURNAL OF PRIMATOLOGY*
Sapolsky, R. M., Share, L. J.
1998; 44 (2): 155-167
- **Hypercortisolism associated with social subordination or social isolation among wild baboons** *ARCHIVES OF GENERAL PSYCHIATRY*
Sapolsky, R. M., Alberts, S. C., Altmann, J.
1997; 54 (12): 1137-1143
- **Insulin-like growth factor I is suppressed in socially subordinate male baboons** *AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY*
Sapolsky, R. M., Spencer, E. M.
1997; 273 (4): R1346-R1351
- **The importance of a well-groomed child** *SCIENCE*
Sapolsky, R. M.
1997; 277 (5332): 1620-1621
- **Increased expression of calbindin D-28k via herpes simplex virus amplicon vector decreases calcium ion mobilization and enhances neuronal survival after hypoglycemic challenge** *JOURNAL OF NEUROCHEMISTRY*
Meier, T. J., Ho, D. Y., Sapolsky, R. M.
1997; 69 (3): 1039-1047
- **Endocrine modulation of the neurotoxicity of gp120: Implications for AIDS-related dementia complex** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Brooke, S., Chan, R., Howard, S., Sapolsky, R.
1997; 94 (17): 9457-9462
- **Herpes simplex viral vectors expressing Bcl-2 are neuroprotective when delivered after a stroke** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
Lawrence, M. S., McLaughlin, J. R., Sun, G. H., Ho, D. Y., McIntosh, L., Kunis, D. M., Sapolsky, R. M., Steinberg, G. K.

1997; 17 (7): 740-744

- **Gene therapy for the nervous system** *SCIENTIFIC AMERICAN*
Ho, D. Y., Sapolsky, R. M.
1997; 276 (6): 116-120
- **Application of silicon microphysiometry to tissue slices: Detection of metabolic correlates of selective vulnerability** *BRAIN RESEARCH*
Ajilore, O. A., Sapolsky, R. M.
1997; 752 (1-2): 99-106
- **Defective herpes simplex virus vectors expressing the rat brain stress-inducible heat shock protein 72 protect cultured neurons from severe heat shock** *JOURNAL OF NEUROCHEMISTRY*
Fink, S. L., Chang, L. K., Ho, D. Y., Sapolsky, R. M.
1997; 68 (3): 961-969
- **McEwen-Induced Modulation of Endocrine History: A Partial Review.** *Stress (Amsterdam, Netherlands)*
1997; 2 (1): 1-12
- **Styles of male social behavior and their endocrine correlates among low-ranking baboons** *AMERICAN JOURNAL OF PRIMATOLOGY*
VIRGIN, C. E., Sapolsky, R. M.
1997; 42 (1): 25-39
- **'The Trouble With Testosterone' and Other Essays on the Biology of the Human Predicament.** *Scribner*
Sapolsky, R.
1997
- **Glucocorticoids increase the accumulation of reactive oxygen species and enhance adriamycin-induced toxicity in neuronal culture** *EXPERIMENTAL NEUROLOGY*
McIntosh, L. J., Sapolsky, R. M.
1996; 141 (2): 201-206
- **Endocrine modulators of necrotic neuron death** *BRAIN PATHOLOGY*
Chan, R. S., Huey, E. D., Maecker, H. L., Cortopassi, K. M., Howard, S. A., Iyer, A. M., McIntosh, L. J., Ajilore, O. A., Brooke, S. M., Sapolsky, R. M.
1996; 6 (4): 481-491
- **Glucocorticoids may enhance oxygen radical-mediated neurotoxicity** *5th Meeting of the International-Neurotoxicology-Association*
McIntosh, L. J., Sapolsky, R. M.
ELSEVIER SCIENCE BV.1996: 873-82
- **Inducible gene expression from defective herpes simplex virus vectors using the tetracycline-responsive promoter system** *MOLECULAR BRAIN RESEARCH*
Ho, D. Y., McLaughlin, J. R., Sapolsky, R. M.
1996; 41 (1-2): 200-209
- **Why stress is bad for your brain** *SCIENCE*
Sapolsky, R. M.
1996; 273 (5276): 749-750
- **Energy and glutamate dependency of 3-nitropropionic acid neurotoxicity in culture** *EXPERIMENTAL NEUROLOGY*
Fink, S. L., Ho, D. Y., Sapolsky, R. M.
1996; 138 (2): 298-304
- **Overexpression of the glucose transporter gene with a Herpes simplex viral vector protects striatal neurons against stroke** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
Lawrence, M. S., Sun, G. H., Kunis, D. M., Saydam, T. C., Dash, R., Ho, D. Y., Sapolsky, R. M., Steinberg, G. K.
1996; 16 (2): 181-185
- **Autofluorescence as a confound in the determination of calcium levels in hippocampal slices using fura-2AM dye** *BRAIN RESEARCH*
Brooke, S. M., Trafton, J. A., Sapolsky, R. M.
1996; 706 (2): 283-288

- **Overexpression of bcl-2 with herpes simplex virus vectors protects CNS neurons against neurological insults in vitro and in vivo** *JOURNAL OF NEUROSCIENCE*
Lawrence, M. S., Ho, D. Y., Sun, G. H., Steinberg, G. K., Sapolsky, R. M.
1996; 16 (2): 486-496
- **Stress, Glucocorticoids, and Damage to the Nervous System: The Current State of Confusion.** *Stress (Amsterdam, Netherlands)*
1996; 1 (1): 1-19
- **Excitotoxic neuron death, acidotic endangerment, and the paradox of acidotic protection** *CELLULAR AND MOLECULAR MECHANISMS OF ISCHEMIC BRAIN DAMAGE*
Sapolsky, R. M., Trafton, J., Tombaugh, G. C.
1996; 71: 237-245
- **DO THE SALUTARY EFFECTS OF FOOD RESTRICTION OCCUR BECAUSE OF OR DESPITE OF THE ACCOMPANYING HYPERADRENOCORTICISM** *NEUROBIOLOGY OF AGING*
Sapolsky, R. M.
1995; 16 (5): 849-850
- **DEFECTIVE HERPES-SIMPLEX VIRUS VECTORS EXPRESSING THE RAT-BRAIN GLUCOSE-TRANSPORTER PROTECT CULTURED NEURONS FROM NECROTIC INSULTS** *JOURNAL OF NEUROCHEMISTRY*
Ho, D. Y., Saydam, T. C., Fink, S. L., Lawrence, M. S., Sapolsky, R. M.
1995; 65 (2): 842-850
- **HERPES-SIMPLEX VIRUS VECTORS OVEREXPRESSING THE GLUCOSE-TRANSPORTER GENE PROTECT AGAINST SEIZURE-INDUCED NEURON LOSS** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Lawrence, M. S., Ho, D. Y., Dash, R., Sapolsky, R. M.
1995; 92 (16): 7247-7251
- **ADRENOCORTICOTROPIN SECRETAGOG RELEASE - STIMULATION BY FRUSTRATION AND PARADOXICALLY BY REWARD PRESENTATION** *BRAIN RESEARCH*
Romero, L. M., LEVINE, S., Sapolsky, R. M.
1995; 676 (1): 151-156
- **HERPES-SIMPLEX VIRUS VECTOR SYSTEM - ANALYSIS OF ITS IN-VIVO AND IN-VITRO CYTOPATHIC EFFECTS** *JOURNAL OF NEUROSCIENCE METHODS*
Ho, D. Y., Fink, S. L., Lawrence, M. S., Meier, T. J., Saydam, T. C., Dash, R., Sapolsky, R. M.
1995; 57 (2): 205-215
- **PATTERNS OF ADRENOCORTICOTROPIN SECRETAGOG RELEASE IN RESPONSE TO SOCIAL INTERACTIONS AND VARIOUS DEGREES OF NOVELTY** *PSYCHONEUROENDOCRINOLOGY*
Romero, L. M., LEVINE, S., Sapolsky, R. M.
1995; 20 (2): 183-191
- **Social subordination as a marker of hypercortisolism - Some unexpected subtleties** *1st World Congress on Stress*
Sapolsky, R. M.
NEW YORK ACAD SCIENCES.1995: 626-639
- **GLUCOCORTICOID INCREASE EXTRACELLULAR [H-3] D-ASPARTATE OVERFLOW IN HIPPOCAMPAL CULTURES DURING CYANIDE-INDUCED ISCHEMIA** *BRAIN RESEARCH*
Chou, Y. C., Lin, W. J., Sapolsky, R. M.
1994; 654 (1): 8-14
- **PHYSIOLOGICAL ELEVATIONS OF GLUCOCORTICOID POTENTIATE GLUTAMATE ACCUMULATION IN THE HIPPOCAMPUS** *JOURNAL OF NEUROCHEMISTRY*
STEINBEHRENS, B. A., Lin, W. J., Sapolsky, R. M.
1994; 63 (2): 596-602
- **DEXAMETHASONE RESISTANCE AMONG NONHUMAN-PRIMATES ASSOCIATED WITH A SELECTIVE DECREASE OF GLUCOCORTICOID RECEPTORS IN THE HIPPOCAMPUS AND A HISTORY OF SOCIAL INSTABILITY** *NEUROENDOCRINOLOGY*
Brooke, S. M., DEHAASJOHNSON, A. M., Kaplan, J. R., Manuck, S. B., Sapolsky, R. M.
1994; 60 (2): 134-140

- **GLUCOCORTICOIDS ACCELERATE ATP LOSS FOLLOWING METABOLIC INSULTS IN CULTURED HIPPOCAMPAL-NEURONS** *BRAIN RESEARCH*
Lawrence, M. S., Sapolsky, R. M.
1994; 646 (2): 303-306
- **CHARACTERIZATION OF MINERALOCORTICOID AND GLUCOCORTICOID RECEPTORS IN PRIMATE BRAIN** *BRAIN RESEARCH*
Brooke, S. M., DEHAASJOHNSON, A. M., Kaplan, J. R., Sapolsky, R. M.
1994; 637 (1-2): 303-307
- **THE PHYSIOLOGICAL RELEVANCE OF GLUCOCORTICOID ENDANGERMENT OF THE HIPPOCAMPUS** *Conference on Brain Corticosteroid Receptors: Studies on the Mechanism, Function, and Neurotoxicity of Corticosteroid Action*
Sapolsky, R. M.
NEW YORK ACAD SCIENCES.1994: 294-307
- **POTENTIAL BEHAVIORAL-MODIFICATION OF GLUCOCORTICOID DAMAGE TO THE HIPPOCAMPUS** *BEHAVIOURAL BRAIN RESEARCH*
Sapolsky, R. M.
1993; 57 (2): 175-182
- **SENESCENT DECLINE IN SERUM DEHYDROEPIANDROSTERONE-SULFATE CONCENTRATIONS IN A POPULATION OF WILD BABOONS** *JOURNALS OF GERONTOLOGY*
Sapolsky, R. M., Vogelman, J. H., Orentreich, N., Altmann, J.
1993; 48 (5): B196-B200
- **CORTICOSTERONE EXACERBATES KAINATE-INDUCED ALTERATIONS IN HIPPOCAMPAL TAU IMMUNOREACTIVITY AND SPECTRIN PROTEOLYSIS INVIVO** *JOURNAL OF NEUROCHEMISTRY*
Elliott, E. M., Mattson, M. P., Vanderklish, P., Lynch, G., Chang, I., Sapolsky, R. M.
1993; 61 (1): 57-67
- **INHIBITION OF ACIDIFICATION RATE IN CULTURED FIBROBLASTS BY GLUCOCORTICOIDS - APPLICATION OF SILICON MICROPHYSIOMETRY TO ENDOCRINOLOGY** *HORMONE AND METABOLIC RESEARCH*
REDISH, D. M., RALEYSUSMAN, K. M., Sapolsky, R. M.
1993; 25 (5): 264-267
- **ALTERING CENTRAL-NERVOUS-SYSTEM PHYSIOLOGY WITH A DEFECTIVE HERPES-SIMPLEX VIRUS VECTOR EXPRESSING THE GLUCOSE TRANSPORTER GENE** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Ho, D. Y., MocarSKI, E. S., Sapolsky, R. M.
1993; 90 (8): 3655-3659
- **CORTICOSTERONE IMPAIRS HIPPOCAMPAL NEURONAL CALCIUM REGULATION - POSSIBLE MEDIATING MECHANISMS** *BRAIN RESEARCH*
Elliott, E. M., Sapolsky, R. M.
1993; 602 (1): 84-90
- **ENDOCRINOLOGY ALFRESCO - PSYCHOENDOCRINE STUDIES OF WILD BABOONS** *1991 Laurentian Hormone Conference*
Sapolsky, R. M.
ACADEMIC PRESS INC.1993: 437-468
- **PATTERNS OF ADRENOCORTICOTROPIN SECRETAGOG RELEASE WITH HYPOGLYCEMIA, NOVELTY, AND RESTRAINT AFTER COLCHICINE BLOCKADE OF AXONAL-TRANSPORT** *ENDOCRINOLOGY*
Romero, L. M., Plotsky, P. M., Sapolsky, R. M.
1993; 132 (1): 199-204
- **ENDOCRINE FEATURES OF GLUCOCORTICOID ENDANGERMENT IN HIPPOCAMPAL ASTROCYTES** *NEUROENDOCRINOLOGY*
Tombaugh, G. C., Sapolsky, R. M.
1993; 57 (1): 7-13
- **POSSIBLE MECHANISM BY WHICH STRESS ACCELERATES GROWTH OF VIRALLY DERIVED TUMORS** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Romero, L. M., RALEYSUSMAN, K. M., REDISH, D. M., Brooke, S. M., HORNER, H. C., Sapolsky, R. M.
1992; 89 (22): 11084-11087

- **CORTISOL CONCENTRATIONS AND THE SOCIAL SIGNIFICANCE OF RANK INSTABILITY AMONG WILD BABOONS** *PSYCHONEUROENDOCRINOLOGY*
Sapolsky, R. M.
1992; 17 (6): 701-709
- **STRESS, GLUCOCORTICOID, AND AGING** *AGING-CLINICAL AND EXPERIMENTAL RESEARCH*
STEINBEHRENS, B. A., Sapolsky, R. M.
1992; 4 (3): 197-210
- **CORTICOSTERONE ENHANCES KAINIC ACID-INDUCED CALCIUM ELEVATION IN CULTURED HIPPOCAMPAL-NEURONS** *JOURNAL OF NEUROCHEMISTRY*
Elliott, E. M., Sapolsky, R. M.
1992; 59 (3): 1033-1040
- **GLUCOCORTICOID EXACERBATE HYPOXIC AND HYPOGLYCEMIC HIPPOCAMPAL INJURY INVITRO - BIOCHEMICAL CORRELATES AND A ROLE FOR ASTROCYTES** *JOURNAL OF NEUROCHEMISTRY*
Tombaugh, G. C., Yang, S. H., Swanson, R. A., Sapolsky, R. M.
1992; 59 (1): 137-146
- **GLUCOCORTICOID EXACERBATE KAINIC ACID-INDUCED EXTRACELLULAR ACCUMULATION OF EXCITATORY AMINO-ACIDS IN THE RAT HIPPOCAMPUS** *JOURNAL OF NEUROCHEMISTRY*
STEINBEHRENS, B. A., Elliott, E. M., Miller, C. A., SCHILLING, J. W., Newcombe, R., Sapolsky, R. M.
1992; 58 (5): 1730-1735
- **EFFECTS OF EXCITOTOXIN EXPOSURE ON METABOLIC-RATE OF PRIMARY HIPPOCAMPAL CULTURES - APPLICATION OF SILICON MICROPHYSIOMETRY TO NEUROBIOLOGY** *JOURNAL OF NEUROSCIENCE*
RALEYSUSMAN, K. M., Miller, K. R., Owicki, J. C., Sapolsky, R. M.
1992; 12 (3): 773-780
- **DO GLUCOCORTICOID CONCENTRATIONS RISE WITH AGE IN THE RAT** *NEUROBIOLOGY OF AGING*
Sapolsky, R. M.
1992; 13 (1): 171-174
- **INHIBITION OF GLUCOCORTICOID SECRETION BY THE HIPPOCAMPAL-FORMATION IN THE PRIMATE** *JOURNAL OF NEUROSCIENCE*
Sapolsky, R. M., ZOLAMORGAN, S., SQUIRE, L. R.
1991; 11 (12): 3695-3704
- **INCIDENCE OF HYPERCORTISOLISM AND DEXAMETHASONE RESISTANCE INCREASES WITH AGE AMONG WILD BABOONS** *BIOLOGICAL PSYCHIATRY*
Sapolsky, R. M., Altmann, J.
1991; 30 (10): 1008-1016
- **LONG-TERM ADRENALECTOMY CAUSES LOSS OF DENTATE GYRUS AND PYRAMIDAL NEURONS IN THE ADULT HIPPOCAMPUS** *EXPERIMENTAL NEUROLOGY*
Sapolsky, R. M., STEINBEHRENS, B. A., Armanini, M. P.
1991; 114 (2): 246-249
- **GLUCOCORTICOID INHIBIT GLUCOSE-TRANSPORT AND GLUTAMATE UPTAKE IN HIPPOCAMPAL ASTROCYTES - IMPLICATIONS FOR GLUCOCORTICOID NEUROTOXICITY** *JOURNAL OF NEUROCHEMISTRY*
VIRGIN, C. E., Ha, T. P., PACKAN, D. R., Tombaugh, G. C., Yang, S. H., HORNER, H. C., Sapolsky, R. M.
1991; 57 (4): 1422-1428
- **ENERGETICS AND NEURON DEATH - HIBERNATING BEARS OR STARVING REFUGEES** *NEUROBIOLOGY OF AGING*
Sapolsky, R. M.
1991; 12 (4): 348-349
- **REGULATION OF INTRACELLULAR PH IN CULTURED HIPPOCAMPAL-NEURONS BY AN AMILORIDE-INSENSITIVE NA⁺/H⁺ EXCHANGER** *JOURNAL OF BIOLOGICAL CHEMISTRY*
RALEYSUSMAN, K. M., Cragoe, E. J., Sapolsky, R. M., Kopito, R. R.
1991; 266 (5): 2739-2745

- **TESTICULAR FUNCTION, SOCIAL RANK AND PERSONALITY AMONG WILD BABOONS** *PSYCHONEUROENDOCRINOLOGY*
Sapolsky, R. M.
1991; 16 (4): 281-293
- **A. E. Bennett Award paper. Adrenocortical function, social rank, and personality among wild baboons.** *Biological psychiatry*
Sapolsky, R. M.
1990; 28 (10): 862-878
- **GLUCOCORTICOID ENDANGERMENT OF HIPPOCAMPAL-NEURONS IS NMDA-RECEPTOR DEPENDENT** *BRAIN RESEARCH*
Armanini, M. P., Hutchins, C., STEIN, B. A., Sapolsky, R. M.
1990; 532 (1-2): 7-12
- **HIPPOCAMPAL DAMAGE ASSOCIATED WITH PROLONGED GLUCOCORTICOID EXPOSURE IN PRIMATES** *JOURNAL OF NEUROSCIENCE*
Sapolsky, R. M., Uno, H., REBERT, C. S., Finch, C. E.
1990; 10 (9): 2897-2902
- **GLUCOCORTICOID INHIBIT GLUCOSE-TRANSPORT IN CULTURED HIPPOCAMPAL-NEURONS AND GLIA** *NEUROENDOCRINOLOGY*
HORNER, H. C., PACKAN, D. R., Sapolsky, R. M.
1990; 52 (1): 57-64
- **MECHANISTIC DISTINCTIONS BETWEEN EXCITOTOXIC AND ACIDOTIC HIPPOCAMPAL DAMAGE IN AN INVITRO MODEL OF ISCHEMIA** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
Tombaugh, G. C., Sapolsky, R. M.
1990; 10 (4): 527-535
- **GLUCOCORTICOID ENDANGERMENT OF THE HIPPOCAMPUS - TISSUE, STEROID AND RECEPTOR SPECIFICITY** *NEUROENDOCRINOLOGY*
PACKAN, D. R., Sapolsky, R. M.
1990; 51 (6): 613-618
- **HYPERCORTISOLISM AND ITS POSSIBLE NEURAL BASES** *BIOLOGICAL PSYCHIATRY*
Sapolsky, R. M., Plotsky, P. M.
1990; 27 (9): 937-952
- **HIPPOCAMPAL GLUTAMINE-SYNTHETASE - INSENSITIVITY TO GLUCOCORTICOID AND STRESS** *AMERICAN JOURNAL OF PHYSIOLOGY*
Tombaugh, G. C., Sapolsky, R. M.
1990; 258 (5): E894-E897
- **GLUCOCORTICOID FEEDBACK INHIBITION OF ADRENOCORTICOTROPIC HORMONE SECRETAGOGUE RELEASE - RELATIONSHIP TO CORTICOSTEROID RECEPTOR OCCUPANCY IN VARIOUS LIMBIC SITES** *NEUROENDOCRINOLOGY*
Sapolsky, R. M., Armanini, M. P., PACKAN, D. R., Sutton, S. W., Plotsky, P. M.
1990; 51 (3): 328-336
- **MILD ACIDOSIS PROTECTS HIPPOCAMPAL-NEURONS FROM INJURY INDUCED BY OXYGEN AND GLUCOSE DEPRIVATION** *BRAIN RESEARCH*
Tombaugh, G. C., Sapolsky, R. M.
1990; 506 (2): 343-345
- **GLUCOCORTICOID, HIPPOCAMPAL DAMAGE AND THE GLUTAMATERGIC SYNAPSE** *PROGRESS IN BRAIN RESEARCH*
Sapolsky, R. M.
1990; 86: 13-23
- **STRESS IN THE WILD** *SCIENTIFIC AMERICAN*
Sapolsky, R. M.
1990; 262 (1): 116-123
- **ELEVATION OF HYPOPHYSEAL PORTAL CONCENTRATIONS OF ADRENOCORTICOTROPIN SECRETAGOGUES AFTER FORNIX TRANSECTION** *ENDOCRINOLOGY*
Sapolsky, R. M., Armanini, M. P., Sutton, S. W., Plotsky, P. M.
1989; 125 (6): 2881-2887

- **HYPERCORTISOLISM AMONG SOCIALLY SUBORDINATE WILD BABOONS ORIGINATES AT THE CNS LEVEL** *ARCHIVES OF GENERAL PSYCHIATRY*
Sapolsky, R. M.
1989; 46 (11): 1047-1051
- **VENN DIAGRAMS AND NEURONAL VULNERABILITY** *NEUROBIOLOGY OF AGING*
Sapolsky, R. M., MORROW, E. A., Tombaugh, G. C.
1989; 10 (5): 613-614
- **STATUS EPILEPTICUS INDUCED HIPPOCAMPAL DAMAGE IS MODULATED BY GLUCOSE AVAILABILITY** *NEUROSCIENCE LETTERS*
Sapolsky, R. M., STEIN, B. A.
1989; 97 (1-2): 157-162
- **CHEMICAL ADRENALECTOMY REDUCES HIPPOCAMPAL DAMAGE INDUCED BY KAINIC ACID** *BRAIN RESEARCH*
STEIN, B. A., Sapolsky, R. M.
1988; 473 (1): 175-180
- **GLUCOCORTICOID TOXICITY IN THE HIPPOCAMPUS - INVITRO DEMONSTRATION** *BRAIN RESEARCH*
Sapolsky, R. M., PACKAN, D. R., Vale, W. W.
1988; 453 (1-2): 367-371
- **POSTMORTEM DECAY IN GLUCOCORTICOID BINDING IN HUMAN AND PRIMATE BRAIN** *BRAIN RESEARCH*
Sapolsky, R. M., Meaney, M. J.
1988; 448 (1): 182-185
- **STRESS-INDUCED SUPPRESSION OF LUTEINIZING-HORMONE CONCENTRATIONS IN WILD BABOONS - ROLE OF OPIATES** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Sapolsky, R. M., Krey, L. C.
1988; 66 (4): 722-726
- **Individual differences and the stress response: studies of a wild primate.** *Advances in experimental medicine and biology*
Sapolsky, R. M.
1988; 245: 399-411
- **2ND GENERATION QUESTIONS ABOUT SENESCENT NEURON LOSS** *NEUROBIOLOGY OF AGING*
Sapolsky, R. M.
1987; 8 (6): 547-548
- **SOCIAL SUBORDINANCE IN WILD BABOONS IS ASSOCIATED WITH SUPPRESSED HIGH-DENSITY LIPOPROTEIN-CHOLESTEROL CONCENTRATIONS - THE POSSIBLE ROLE OF CHRONIC SOCIAL STRESS** *ENDOCRINOLOGY*
Sapolsky, R. M., Mott, G. E.
1987; 121 (5): 1605-1610