

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

2017-18

- Human Behavioral Biology: BIO 150, HUMBIO 160 (Spr)
- Mechanisms of Neuron Death: BIO 151 (Aut)
- Physiology: BIO 84 (Win)

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)

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*
Sorrrells, 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.
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- **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.
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- **Differential sensitivity of murine astrocytes and neurons from different brain regions to injury** *EXPERIMENTAL NEUROLOGY*
Xu, L. J., Sapolsky, R. M., Giffard, R. G.
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- **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.
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- **Cellular defenses against excitotoxic insults** *JOURNAL OF NEUROCHEMISTRY*
Sapolsky, R. M.
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- **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.
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- **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.
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- **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.
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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
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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.
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- **Reproductive hormone profiles in captive male orangutans: Implications for understanding developmental arrest** *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY*
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Ajilore, O. A., Sapolsky, R. M.
1999; 69 (2): 138-144
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Sapolsky R, Steinberg G
1999: 1922
- **An outsider's commentary.** *Advances in mind-body medicine*
Sapolsky, R. M.
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Iyer, A. M., Brooke, S. M., Sapolsky, R. M.

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Meier, T. J., Ho, D. Y., Park, T. S., Sapolsky, R. M.
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- **Energy dependency of glucocorticoid exacerbation of gp120 neurotoxicity** *JOURNAL OF NEUROCHEMISTRY*
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1998; 71 (3): 1187-1193
- **Glucocorticoids may alter antioxidant enzyme capacity in the brain: kainic acid studies** *BRAIN RESEARCH*
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- **Glucocorticoids may alter antioxidant enzyme capacity in the brain: baseline studies** *BRAIN RESEARCH*
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Sapolsky, R. M., Share, L. J.
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- **Hypercortisolism associated with social subordination or social isolation among wild baboons** *ARCHIVES OF GENERAL PSYCHIATRY*
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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.
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- **The importance of a well-groomed child** *SCIENCE*
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