Michael R. Lerner, MD
T 619-291-8292 • 2881 4th Ave. San Diego, CA 92103 • michaelrushlerner@gmail.com

## Work History

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|---|---|---|
| Dermatology Surgical And Medical | Owner | July 2012 - Present |
| VA San Diego | | Nov 2012 - Present |
| Sharp Rees Stealy, San Diego | | Feb 2011 - May 2012 |
| University of California San Diego | | Sep 2009 - Feb 2011 |
| Clinical Assistant Professor of Dermatology | | |
| Arena Pharmaceuticals | | Apr 2001 – Apr 2008 |
| Consultant, Research Fellow, Vice President of Screening | | |
| University of Texas Southwestern Medical Center | | April 1999 – April 2001 |
| Tenured Associate Professor Dermatology and Pharmacology | | |
| Contact: Ponciano Cruz, M.D. Vice Chairman, Dermatology 214-648-8677 | | |
| Cofounded Lerner Medical Devices | | |
| Yale University School of Medicine | | July 1983 – March 1996 |
| Tenured Associate Professor - Internal Medicine and Pharmacology | | |
| Founded Bunsen Rush Laboratories | | |
| Associate Professor of Molecular Neurobiology | | |
| IPA, office of Naval Research, Arlington, VA | | |
| Associate Investigator, Howard Hughes Medical Institute | | |
| Assistant Professor of Molecular Neurobiology | | |

## Certification

Board Certified in Dermatology – Current until December 31, 2019
Active medical licenses in California G86296 and Texas K9835

## Education

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|---|---|---|---|
| Dermatology resident | | 1996-1999 | U of Texas Southwestern |
| Postdoctoral fellow | Neurobiology | 1982-1983 | Washington University School of Medicine |
| Medical intern | | 1981-1982 | Barnes Hospital, Wash U School of Medicine |
| MD | | 1974-1981 | Yale University School of Medicine |
| PhD Mol Biophys & | Biochem | 1974-1981 | Yale University |
| Bachelor of Arts | Chemistry | 1971-1974 | University of Pennsylvania |

## Patents

Anti-Sm Hybridoma. #4,564,597.
Novel inhibitor of platelet aggregation. #5,294,543.
Fiber optic psoriasis treatment device #5,300,097.
Methods for identifying chemicals that act as agonists or antagonists for receptors and other proteins involved in signal transduction via pathways that utilize G-proteins. #5,462,856.
Oligomer library formats and methods related thereto. #5,601,992.

## Honors and Awards

| | |
|---|---|
| 1973 | Phi Lambda Upsilon |
| 1974 | American Chemical Society Award (Philadelphia Chapter) |
| 1980 | Charles E. Culpepper Fellow |
| 1981 | The Wilson S. Stone Memorial Award |
| 1983 | Helen Hay Whitney Fellow |
| 1984 | Lee C. Howley, Sr. Prize for Arthritis Research (with Joan Steitz and John Hardin) |
| 1984-87 | McKnight Scholar |

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|---|---|
| 1986-94 | HHMI scientist |
| 1990 | George Herbert Hitchings Award for Innovative Methods in Drug Design from the Burroughs Welcome Fund |
| 1992 | American Society for Clinical Investigation |

**Personal**

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| Married | Kirsten J Lerner |
| Five sons | Jacob , Lane, Tom, Eli, Cy |
| Hobbies | Photography, Running |

**Publications**

**Original Articles**

1 Lerner, M.R. Immortal fibroblasts? (1979). *J. of Theoretical Biology* 77: 213-216.

2 Lerner M.R and Steitz J.A. (1979). Antibodies to small nuclear RNAs complexed with proteins are produced by patients with systemic lupus erythematosus. *Proc. Natl. Acad. Sci. USA* 76: 5495-5499.

3 Lerner, M.R, Boyle, J.A, Mount, S.M, Wolin, S.L and Steitz, J.A. (1980). Are snRNPs involved in splicing? *Nature* 283: 220-224.

4 Lerner, M.R., Boyle, J.A. and Steitz, J.A. (1981). Two novel classes of small ribonucleoproteins detected by antibodies associated with systemic lupus erythematosus. *Science* 211: 400-402.

5 Lerner, M.R., Andrews, N.C, Miller, G. and Steitz JA. (1981). Two small RNAs encoded by Epstein-Barr virus and complexed with protein are precipitated by antibodies from patients with systemic lupus erythematosus. *Proc. Natl. Acad. Sci. USA* 78: 805-809.

6 Yang, V.W, Lerner, M.R., Steitz, J.A. and Flint, S.J. (1981). A small nuclear ribonucleoprotein is required for splicing of adenoviral early RNA sequences. *Proc Natl. Acad. Sci. USA* 78: 1371-1376.

7 Lerner, E.A, Lerner, M.R, Janeway, C.A, Jr. and Steitz, J.A. (1981). Monoclonal antibodies to nucleic acid-containing cellular constituents: Probes for molecular biology and autoimmune disease. *Proc. Natl. Acad. Sci. USA* 78: 2737-2741

8 Rosa, M.D, Gottlieb, E., Lerner, M.R. and Steitz, J.A. (1981). Striking similarities are exhibited by two small Epstein-Barr virus encoded RNAs and the adenovirus-associated RNAs, VA1 and VA11. *Mol. Cell. Biol.* 1: 785-796.

9 Hendrick, J.P., Wolin, S.L., Rinke, J., Lerner, M.R. and Steitz, J.A. (1981). Ro scRNPs are a subclass of LaRNPs: Further characterization of the Ro and La small ribonucleoproteins from uninfected mammalian cells. *Mol. Cell. Biol.* 1: 1138-1149.

10 Hardin, J.A., Rahn, D.R., Shen, C., Lerner, M.R., Wolin, S.L., Rosa, M.D. and Steitz, J.A. (1982). Antibodies from patients with connective tissue diseases bind specific subsets of cellular RNA-protein particles. *J. Clin. Invest.* 70: 141-147.

11 Rosa, M.D., Hendrick, J.P., Lerner, M.R. and Steitz, J.A. (1983). A mammalian tRNA His-containing antigen is recognized by the polymyositis-specific antibody anti-Jo-1. *Nucleic Acids Res.* 11: 853-870.

12 Tamara, A., Halaban, R., Moellmann, G., Cowan, J.M., Lerner, M.R. and Lerner, A.B. (1987). Normal murine melanocytes in culture. *In Vitro* 23: 519-522.

13 Lerner. M.R, Reagan, J., Gyorgyi, T. and Roby, A. (1988). Olfaction by melanophores: What does it mean? *Proc. Natl. Acad. Sci. USA* 85: 261-264.

14 McAllister, G., Amara, S.G. and Lerner, M.R. (1988). Tissue-specific expression and cDNA

cloning of small nuclear ribonucleoprotein-associated polypeptide N. *Proc. Natl. Acad. Sci. USA* 85: 5296-5300.

15 Gyorgyi, T.K., Roby-Shemkovitz, A.J. and Lerner, M.R. (1988). Characterization and cDNA cloning of the pheromone binding protein from the tobacco hornworm, Manduca sexta: A tissue specific, developmentally regulated protein. *Proc. Natl. Acad. Sci. USA* 85: 9851-9855.

16 Schmauss, C., McAllister, G., Ohosone, Y., Hardin, J.A. and Lerner, M.R. (1989). A Comparison of snRNP-associated Sm-autoantigens human N, rat N and human B/B'. *Nucleic Acids Res.* 17: 1733-1743.

17 Rybczynski, R., Reagan, J. and Lerner, M.R. (1989). A pheromone-degrading aldehyde oxidase in the antennae of the moth Manduca sexta. *J. Neuroscience.* 9: 1341-1353.

18 McAllister, G., Roby-Shemkovitz, A., Amara, S.G and Lerner, M.R. (1989). cDNA sequence of the rat U snRNP-associated protein N: description of a potential Sm epitope. *EMBO J.* 8: 1177-1181.

19 Habets, W.J., Sillekens, P.T.G., Hoet, M.H., McAllister, G., Lerner, M.R. and van Venrooij, W.J. (1989). Small nuclear RNA-associated proteins are immunologically related as revealed by mapping of autoimmune reactive B cell epitopes. *Proc. Natl. Acad. Sci. USA* 86: 4674-4678.

20 Daniolos, A., Lerner, A.B. and Lerner, M.R. (1990). On the action of light on frog pigment cells in culture. *Pigment Cell Res.* 3: 38-43.

21 Schmauss, C. and Lerner, M.R. (1990). The closely related snRNP Polypeptides N and B/B' are distinguishable by Antibodies as well as by differences in their mRNAs and gene structures. *J. Biological Chemistry* 265: 10733-10739.

22 Rybczynski, R., Vogt, R.G. and Lerner, M.R. (1990). Antennal-specific pheromone- degrading aldehyde oxidases from the moths Antheraea polyphemus and Bombyx mori. *J. Biological Chemistry* 265: 19712-19715.

23 Vogt, R., Prestwich, G.D. and Lerner, M.R. (1991). Odorant-binding protein subfamilies associate with distinct classes of olfactory receptor neurons in insects. *J. of Neurobiology* 22: 74-84.

24 Shapiro, P.E., McAllister, G., Lerner, E.A. and Lerner, M.R. (1991). Healthy individuals and patients with Systemic Lupus Erythematosus have unique, person-specific spectra of antibodies detectable on immunoblots. *J. of Clin. & Immuno-Pathology* 59: 129-138.

25 Lerner, E.A., Ribeiro, J.M.C., Nelson, R.J. and Lerner, M.R. (1991). Isolation of maxadilan, a potent vasodilatory peptide from the salivary glands of the sand fly Lutzomyia longipalpis. *J. Biological Chemistry* 266: 11234-11236

26 Lombroso, P.J., Murdoch, G., and Lerner, M.R. (1991). Molecular characterization of a protein-tyrosine-phosphatase enriched in striatum. *Proc. Natl. Acad. Sci. USA* 88: 7242-7246.

27 Vogt, R.G, Rybczynski, R., and Lerner, M.R. (1991). Molecular cloning and sequencing of General-Odorant Binding Proteins GOBP1 and GOBP2 from the Tobacco Hawk Moth Manduca Sexta: Comparisons with Other Insect OBPs and their Signal Peptides. *J. Neuroscience* 11: 2972-2984.

28 Potenza, M.N. and Lerner, M.R. (1991). A Recombinant Vaccinia Virus Infects Xenopus Melanophores. *Pigment Cell Research* 4: 186-192.

29 Schmauss, C., Brines, M.L and Lerner, M.R. (1992). The gene that codes for the snRNP-associated Protein N is expressed at high levels in Neurons. *J. Biological Chemistry* 267(12) 8521-8529.

30 McClintock, T.S., Byrnes, A.P. and Lerner, M.R. (1992). Molecular Cloning of a G-Protein

subunit from the Lobster Olfactory Organ. *Molec. Brain Res.* 14: 273-276.

31 Potenza, M. and Lerner, M.R. (1992). A Rapid Quantitative Bioassay for Evaluating the Effects of Ligands Upon Receptors that Modulate cAMP Levels in a Melanophore Cell Line. *Pigment Cell Research.* 5(6): 372-378.

32 Potenza, M.N., Graminski, G.F. and Lerner, M.R. (1992). A Method for Evaluating the Effects of Ligands Upon $G_s$ Protein Coupled Receptors Using a Recombinant Melanophore-Based Bioassay. *Analytical Biochemistry* 206: 315-322.

33 McClintock, T.S., Graminski, G.F., Potenza, M.N., Jayawickreme, C.K., Roby-Shemkovitz, A. and Lerner, M.R. (1993). Functional Expression of Recombinant G-Protein Coupled Receptors Monitored by Video Imaging of Pigment Movement in Melanophores. *Analytical Biochemistry* 209: 298-305.

34 Graminski, G.F., Jayawickreme, C.K., Potenza, M.N. and Lerner, M.R. (1993). Pigment dispersion in frog melanophores can be induced by a phorbol ester or stimulation of a recombinant receptor that activates phospholipase C. *J. Biological Chemistry* 268: 5957-5964.

35 Vogt, R.G., Rybczynski, R., Cruz, M. and Lerner, M.R. (1993). Ecdysteroid regulation of olfactory protein expression in the developing antenna of the tobacco hawk moth, Manduca sexta. *J. Neurobiology* 24(5):581-597.

36 Lombroso, P.J., Naegele, J.R., Sharma, E. and Lerner, M.R. (1993). A Protein Tyrosine Phosphatase Expressed within Dopaminoceptive Neurons of the Basal Ganglia and Related Structures. *J. Neuroscience* 13(7):3064-3074.

37 Karne, S., Jayawickreme, C.K. and Lerner, M.R. (1993). Cloning and Characterization of an ET-3 Specific Receptor ($ET_C$ Receptor) from Xenopus Laevis Dermal Melanophores. *J. Biological Chemistry* 268: 19126-19133.

38 Potenza, M.N. and Lerner, M.R. (1994). Characterization of an Adenylyl-Cyclase-Linked Serotonin Receptor in Frog Melanophores. *Nauyn-Schmiedeberg's Archives of Pharmacology.* 349: 11-19.

39 Potenza, M.N., Graminski, G.F., Schmauss, C. and Lerner, M.R. (1994) Functional Expression and Characterization of Human $D_2$ and $D_3$ Dopamine Receptors. *Journal of Neuroscience* 14: 1463-1476.

40 Jayawickreme, C.K., Graminski, G.F., Quillan, J.M. and Lerner, M.R. (1994) Creation and Functional Screening of a Multi-Use Peptide Library. *Proc. Natl. Acad. Sci. USA* 91: 1614-1618.

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42 Graminski, G.F. and Lerner, M.R. (1994). A Rapid Bioassay for Platelet-Derived Growth Factor ß-Receptor Tyrosine Kinase Function. *Bio/Technology* 12: 1008-1011.

43 Jayawickreme, C.K., Quillan, J.M., Graminski, G.F. and Lerner, M.R. (1994) Discovery and Structure-Function Analysis of a-MSH Antagonists. *J. Biol. Chem.* 269: 29846-29854.

44 Quillan, J.M., Jayawickreme, C.K. and Lerner, M.R. (1995) A Combinatorial Diffusion Assay Identifies Topically Active MSH Receptor Antagonists. *Proc. Natl. Acad. Sci. USA* 92: 2894-2898.

45 McClintock, T.S., Risins, J.P. and Lerner, M.R. (1996) Melanophore pigment dispersion responses to agonists show two patterns of sensitivity to inhibitors of cAMP-dependent kinase and protein kinase C. *J. Cell. Physiol.* 167:1-7.

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ligands targeted to G-protein coupled receptors. *Chemistry and Biology* 3:537-542.

47 Alvaro, J.D., Tatro, J.B., Quillan, J.M., Fogliano, M., Eisenhard, M., Lerner, M.R., Nestler, E.J. and Duman, R.S. (1996) Morphine down-regulates melanocortin-4 receptor expression in brain regions that mediate opiate addiction. *Mol Pharmacol.* 50(3):583-91.

48 Rogers, M.E., Sun, M., Lerner, M.R. and Vogt, R.G. (1997) Snmp-1, a Novel Membrane Protein of Olfactory Neurons of the Silk Moth Antheraea polyphemus with Homology to the CD36 Family of Membrane Proteins. *J. Biol. Chem.* 272:14792-14799.

49 McClintock, T.S. and Lerner, M.R. (1997) Functional analysis by imaging of melanophores pigment dispersion of chimeric receptors constructed by recombinant polymerase chain reaction. *Brain Res. Protocols* 2: 59-68.

50 McClintock, T.S., Landers, T.M., Gimelbrant, A.A., Fuller, L.Z., Jackson, B.A., Jayawickreme, C.K. and Lerner, M.R. (1997) Functional expression of olfactory-adrenergic receptor chimeras and intracellular retention of heterologously expressed olfactory receptors. *Mol. Brain Res.* 48(2):270-8.

51 Carrithers, M.D., Marotti, L.A., Yoshimura, A., and Lerner, M.R. (1999) A melanophore-based screening assay for erythropoietin receptors. *J Biomol Scr.* 4:9-14.

52 Lerner, M.R., Fitzpatrick, T.B., Halder, R.M., and Hawk, J.L.M. (1999) Discussion of a case of vitiligo. *Photodermatol Photoimmunol Photomed* 15:41-44.

53 Marotti, L.A., Jayawickeme, C.K., and Lerner, M.R. (1999) Functional characterization of a receptor for vasoactive-intestinal-peptide-related peptides in cultured dermal melanophores from Xenopus laevis. *Pigment Cell Res.* 12:89-97.

54 Potenza, M.N., Gold, S.J., Roby-Shemkowitz, A., Lerner, M.R., and Nestler, E.J. (1999) Effects of Regulators of G Protein-Signaling Proteins on the Functional Response of the m-Opioid Receptor in a Melanophore-Based Assay. *Jour of Pharm. & Exp. Therapeutics.* 291:482-491.

55 Karlsson, A.M., Lerner, M.R., Unett, D., Lundstrom, I. and Svensson, S.P.S. (2000) Melatonin-induced organelle movement in melanophores is coupled to tyrosine phosphorylation of a high molecular weight protein. *Cellular Signaling* 12(7):469-74.

56 DeCamp, D.L., Thompson, T.M., de Sauvage, F.J. and Lerner, M.R. (2000) Smoothened activates Gi mediated signaling in frog melanophores. *J. Biol. Chem*. 275(34):26322-7.

57 Gatlin J., Unett D.J., Lerner M.R and Garcia, J.V. (2001) Efficient, long-term transgene expression in Xenopus laevis dermal melanophores. *Pigment Cell Res.*14(4):275-82.

58 Martin, V., Sawyer, N., Stocco, R., Unett, D., Lerner, M.R., Abramovitz, M. and Funk, C.D. (2001) Molecular cloning and functional characterization of murine cysteinyl-leukotriene 1 (CysLT1) receptors. *Biochemical Pharmacology* 62: 1193-1200.

59 Tanaka H, Yoshida T, Miyamoto N, Motoike T, Kurosu H, Shibata K, Yamanaka A, Williams SC, Richardson JA, Tsujino N, Garry MG, Lerner MR, King DS, O'Dowd BF, Sakurai T, Yanagisawa M. (2003) Characterization of a family of endogenous neuropeptide ligands for the G protein-coupled receptors GPR7 and GPR8. *Proc Natl Acad Sci U S A*. 100(10):6251-6.

60 Buzard, D.J, Thatte, J., Lerner, M., Edwards, J. and Jones, RM. (2008) Recent progress in the development of S1P1 receptor agonists for the treatment of inflammatory and autoimmune disorders. *Expert Opinion on Therapeutic Patents* 18, No. 10: 1141-1159.

**Chapters and Reviews**

61 Steitz, J.A. (1980). Structure and conservation of small ribonucleoprotein complexes in eukaryotic cells. In: RNA-Polymerase, tRNA and Ribosomes: Their Genetics and Evolution. (eds. S. Osawa, H. Ozeki, H. Uchida and T. Yura) Tokyo, Japan: University of Tokyo Press, pp. 299-311.

62 Lerner, M.R. and Steitz, J.A. (1981). Snurps and scyrps. *Cell* 25: 298-300.

63 Steitz, J.A., Lerner, M.R., Boyle, J.A., Andrews, N.C., Hendricks, J.P. and Miller, G. (1981). Three classes of small RNA-protein complexes precipitated by lupus antibodies. In: Juselius: Expression of Eukaryotic Viral and Cellular Genes. (ed. R. Pettersson) London: Academic Press, pp. 257-264.

64 Hendrick, J.P., Mount, S.M., Rinke, J., Wolin, S.L., Rosa, M.D., Gottlieb, E., Lerner, M.R. and Steitz, J.A. (1981). Small RNPs in Eukaryotic Cells. In: Proc. Ozarks Transmethylation Conference.

65 Lerner, E.A., Lerner, M.R., Hardin, J.A., Janeway, C.A., Jr. and Steitz, J.A. (1982). Deciphering the mysteries of RNA-containing lupus antigens. *Arth. Rheum.* 25: 761-766.

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70 Steitz, J.A., Berg, C., Gottlieb, E., Lerner, E.A., Hardin, J.A., Hashimoto, C., Hendrick, J.P., Hinterberger, M., Krikeles, M., Lerner, M.R., Janeway, C.A., Mount, S.M., Pettersson, I., Rinke, J., Rosa, M.D. and Wolin, S.L. (1985). Autoantibodies as Probes for Understanding the Structure and Function of Small Ribonucleoproteins from Mammalian Cells. In: Current Topics in Rheumatology, Volume 2, Systemic Sclerosis. (C. M. Black and A. R. Myers, Eds.) Gower Medical Publ., Inc. New York photoprotection. 309-313.

71 Lerner, E.A. and Lerner, M.R. (1987). Whither the ANA. *Arch. Dermatol.* 123: 358-362.

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**Letters**

80 Lerner, M.R. and Goldman, R.S. (1987) Skin color, MPTP, and Parkinson's Disease. *Lancet* 2 (8552): 212.