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HIGHLIGHTS

- Headed research laboratories at the Harvard Medical School and the University of Pennsylvania Medical School for twenty years.
- Wrote and published more than 65 scientific papers. Received one patent.
- Successfully recruited funding for NIH and private foundation grants throughout career.

EXPERIENCE

Grant Consultant and Grant Writer 1996- present
West Rock Associates; Boston, MA

Faculty Member, Associate Professor of Pharmacology 1984-1995
Harvard Medical School, Department of Anesthesia
Brigham and Women's Hospital; Boston, MA

Faculty Member, Assistant Professor of Pharmacology 1977-1984
University of Pennsylvania Medical School; Philadelphia, PA

Faculty Member, Postdoctoral Fellow in Psychopharmacology 1973-1977
Yale Medical School, in the laboratory of Paul Greengard, Ph.D.
(Nobel laureate)

Faculty Member, Postdoctoral Fellow in Circadian Rhythms 1972-1973
Harvard University, in the laboratory of J. Woodland Hastings, Ph.D.

EDUCATION

B.A.: Chemistry with Honors, Cornell University
Thesis in protein structure; Laboratory of Harold Scheraga, Ph.D.

M.A.: Biochemistry, Harvard University
Biochemistry Committee; Laboratory of James D. Watson, Ph.D.
(Nobel laureate)

Ph.D.: Dept. of Biochemistry and Molecular Biology, Harvard University
Laboratory of J. Woodland Hastings, Ph.D.

SELECTED PUBLICATIONS

STEROID MECHANISMS OF GENERAL ANESTHESIA

Bukusoglu C, Krieger NR. Photoaffinity labeling with progesterone-11 alpha-hemisuccinate- (2-[125I]iodohistamine) identifies four protein bands in mouse brain membranes. *J. Neurochem*. 1994 Oct; 63(4):1434-1438.

Mok WM and Krieger NR. Synthesis of a [1,2-3H]-labeled pregnanolone.
Steroids. 1991 Nov;56(11):544-8.

Mok WM Herschkowitz, Krieger NR. Evidence that 3 alpha-hydroxy-5 alpha-pregnan-20-one is the metabolite responsible for anesthesia induced by 5 alpha-pregnanedione in the mouse.
Neurosci Lett. 1992 Feb 3;135(2):145-8.

Mok WM Herschkowitz, Krieger NR. In vivo studies identify 5 alpha-pregnan-3 alpha-ol-20-one as an active anesthetic agent.
J Neurochem. 1991 Oct;57(4):1296-301.

Mok WM and Krieger NR. Evidence that 5 alpha-pregnan-3 alpha-ol-20-one is the metabolite responsible for progesterone anesthesia.
Brain Res. 1990 Nov 12;533(1):42-5.

CIRCADIAN RHYTHMS

Morin JG, Harrington A, Nealson K, Krieger N, Baldwin TO, Hastings JW. Light for all reasons: versatility in the behavioral repertoire of the flashlight fish. ***Science*** 1975 (190) 74-76

Sulzman FM, Krieger NR, Gooch VD, Hastings JW. A circadian rhythm of the luciferin binding protein from *gonyaulax polyedra*. *J. Comp. Physiol.* 1978; 128:251-257.

BIOCHEMISTRY AND MOLECULAR BIOLOGY

Kaufman DL, McGinnis JF, Krieger NR, Tobin AJ. Brain glutamate decarboxylase cloned in lambda gt-ll: fusion protein produces gamma-aminobutyric acid. ***Science*** 1986 May 30; 2324(4754):1138-1140.

Krieger N, Hastings JW. Bioluminescence: pH activity profiles of related luciferase fractions. ***Science*** 1968 Aug 9; 161(841):586-589.

Krieger N, Njus D, Hastings JW. An active proteolytic fragment of gonyaulax luciferase. *Biochemistry* 1974 Jul 2; 13(14):2871-2877.

Krieger NR,HellerJS Localization of glutamic acid decarboxylase within laminae of the rat olfactory tubercle. J Neurochem. 1979 Jul;33(1):299-302.

Penning TM, Sharp RB, Krieger NR. Purification and properties of 3 alpha-hydroxysteroid dehydrogenase from rat brain cytosol. Inhibition by non-steroidal anti-inflammatory drugs and progestins. *J. Biol. Chem.* 1985 Dec 5; 260(28):15266-15272.

Krieger NR. and Scott RG. 3 alpha-Hydroxysteroid oxidoreductase in rat brain.
J Neurochem. 1984 Mar;42(3):887-90.

MECHANISMS OF ACTION OF ANTIPSYCHOTIC DRUGS

Krieger NR. and Scott RG. Nonneuronal localization for steroid converting enzyme: 3 alpha-hydroxysteroid oxidoreductase in olfactory tubercle of rat brain.

J Neurochem. 1989 Jun;52(6):1866-70.

Shickley TJ, Krieger NR A method for stimulation of cyclic AMP levels in vivo by intracerebral injection in the rat olfactory tubercle.
Life Sci. 1984 Dec 10;35(24):2421-6.

Krieger NR, Megill JR,Sterling P. Granule cells in the rat olfactory tubercle accumulate 3H-gamma-aminobutyric acid.
J Comp Neurol. 1983 Apr 20;215(4):465-71.

Krieger NR,Bunney BS,Greengard P. Localization of dopamine-sensitive adenylate cyclase activity within laminae of the rat prefrontal cortex.
Brain Res. 1979 Dec 21;179(1):171-5.

Krieger NR, Kauer JS, Shepherd GM, Greengard P. Dopamine-sensitive adenylate cyclase within laminae of the olfactory tubercle.
Brain Res. 1977 Aug 12;131(2):303-12.