

## BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.  
Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TITLE
Cooper, Edwin L.	Professor of Neurobiology

  

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Texas Southern University, Houston, TX	B.S.	1957	Biology
Atlanta University, Atlanta, GA	M.S.	1959	Biology
Brown University, Providence, RI	Ph.D.	1963	Biology
University of California, Los Angeles	Postdoc.	1962-64	Comp. Immu.

### A. Positions and Honors.

#### Professional Positions:

1958 Student, MBL, Woods Hole, Massachusetts  
1961 Marine Laboratory, Salisbury Cove, Maine  
1959-60 Cancer and Developmental Biology Trainee, Brown University  
1961-62 Fellow; Brown University  
1962-64 Postdoctoral Fellow, National Cancer Institute, UCLA  
1964-69 Assistant Professor UCLA  
1964-69 Visiting Assistant Professor, (UCLA-IPN) Exchange Program, (AID sponsor): Departamento de Morfologia, Instituto Politecnico Nacional, Mexico City; Assistant Professor, Department of Anatomy, UCLA School of Medicine  
1970-71 Guggenheim Fellow, Karolinska Institute, Stockholm  
1969-73 Associate Professor, Department of Anatomy, UCLA School of Medicine  
1973-present Professor, Department of Neurobiology, UCLA School of Medicine  
1980 Visiting Professor, University of Complutense, Spain  
1981 University of Tromso, Norway  
1985-86 Visiting Professor: University of Reims, France; University of Leon, Spain; Cairo University  
1988 Yamaguchi Univ. Japan, Visiting Professor, University of Palermo, Italy;  
1989-93 Vice-Chair, Department of Anatomy and Cell Biology

#### Awards and Other Professional Activities:

**1951, 1<sup>st</sup> and 2<sup>nd</sup>** Prizes, Art; **1952**; B.S. *cum laude*; **1963** Fellow AAAS; **1970-71**:Guggenheim Fellow (Karolinska Inst.); Hon. Fulbright Scholar; Swedish Med. Res. Council Fellow; Nat. Can. Inst. Fellow; Fulbright Travel Award; **1975** Marshall, Hippocratic Oath UCLA Med. Sch; Founder Div. Comp. Immunol. Am. Soc. Zool., **1977**, Founding Editor, *Int. J. Dev. Comp. Immunol.* **1977-78**: Member, Royal Lymphatic Society, Uppsala, Sweden; Eleanor Roosevelt Fellow, Int. Union Against Cancer; Ludwig Institute for Cancer Research, Lausanne, Switzerland; Fellow, Fogarty Int. Center: Co-Founder ISDCI; Professor, Collège de France (Invited by Jean Dausset, Prix Nobel); **1980** Mayor's Medal, Verona, Italy; **1982**, Re. Premier Prix, Comp. Immunol, Behring-Metschnikoff; **1983** Medal, Kyushu Univ. Med. School and Fukuoka Med. Assoc., Japan, Mayor of Los Angeles, Dist. Achievement-ISDCI; Pres. Am. Soc. Zool.; **1984** Pres. International Society of Developmental and Comparative Immunology (ISDCI), 1984; Outstanding Service, Amer. Soc. of Zoologists; **1985-86** Senior Fulbright Fellow; **1986** *Docteur Honoris Causa*, University of Reims; Doctor of Science, Texas Southern University; **1987-88** S.M. Nabrit Achievement Award in Science, Atlanta University; Fellow, Japan Society for the Promotion of Science; Medal, Yamaguchi University; Honorary Doctor of Science, Brown University **1992**, *Premio di Scienze*, Universita di Lecce, Italy; **1998** Distinguished Professor, German Academic Exchange Program, University of Greifswald, Germany **1999**, Alexander von Humboldt Prize, Germany; **2002** Dist Lecturer in Science, Santa Monica College; Organizer Inter. Symp. Alternative and Complementary Medicine, Kanazawa University

## **B. Selected Peer-Reviewed Publications (in chronological order).**

- Zapata A, Villena A, Razquin B and **Cooper EL**. 1981. The jugular body in anuran amphibians: Role in immunity. Dev. Comp. Immunol., 5 Suppl. 1: 129-135.
- Zapata A, **Cooper EL** and Laceta J. 1981. Plasma cell clusters in the interstitial tissue of the testes of *Acanthodacylus erythrurus* (Reptilia, Lacertidae). J. Comp. Pathol., 91: 263-270.
- Zapata A, Villena A and **Cooper EL**. 1981. Ultrastructure of the jugular body of *Rana pipiens*. Cell and Tissue Res., 221: 193-202.
- Zapata A, Villena A and **Cooper EL**. 1982. Direct contacts between nerve endings and lymphoid cells in the jugular body of *Rana pipiens*. Experientia, 38: 623-624.
- Wojdani A** and **Cooper EL**. 1982. The influence of ambient temperature on antibody production and aging. In: Developmental Immunology: Clinical Problems and Aging, E. L. Cooper and M. A. B. Brazier (Eds.), Academic Press, New York, pp. 277-289.
- Mansour MH and **Cooper EL**. 1984a. Purification and characterization of *Rana pipiens* brain Thy-1 glycoprotein. J. Immunol., 132: 2515-2523.
- Mansour MH. and **Cooper EL**. 1984b. Serological and partial characterization of a Thy-1 homolog in tunicates. Eur. J. Immunol., 14: 1031-1039.
- Mansour MH, DeLange R, and **Cooper EL**. 1985. Isolation, purification and amino acid composition of the tunicate hemocyte Thy-1 homolog. J. Biol. Chem., 260: 2681- 2686.
- Ghoneum MH, Egami H, Ijiri K and **Cooper EL**. 1986. Effect of corticosteroid on the thymus of the fish *Oryzias latipes*. Dev. Comp. Immunol., 10: 35-44.
- Mansour MH, Negm HI and **Cooper EL**. 1987. Thy-1 evolution. Dev. Comp. Immunol., 11: 3-15.
- Cooper EL** and Mansour MH. 1989. Distribution of Thy-1 in invertebrates and ectothermic vertebrates. In: Cell Surface Antigen Thy-1. Immunology, Neurology, and Therapeutic Applications. A.E. Reif and M. Schlesinger, eds., Marcel Dekker, Inc., N.Y., pp. 197-219.
- Cooper EL**, Peters G, Ahmed II, Faisal M and **Ghoneum MH**. 1989 Aggression in *Tilapia* affects immunocompetent leucocytes. Aggres. Behav. 15: 13-22.
- Boctor FN, Charmy RA and **Cooper EL** 1989. Seasonal differences in the rhythmicity of human male and female lymphocyte blastogenic responses. Immunol. Invest. 18: 775-784.
- Faisal M, Ahmed II, Chiappelli F, Weiner H and **Cooper EL**. 1989. Role of endogenous opioids in modulating some immune functions in hybrid *Tilapia*. J. Aquat. Anim. Health., 1: 301-306.
- Cooper EL**. 1990. General Immunology (Japanese Translation) Nishimura Co. Ltd., Japan, 324 pp.
- Cooper EL** and Faisal M. 1990. Phylogenetic approach to endocrine-immune system interactions. In: Callard, G. V. and Callard, I. P. (eds) Unconventional vertebrates as models in endocrine research. J. Exptl. Zool., Suppl., 4: 46-52.
- Faisal M, **Chiappelli F** Ahmed II **Cooper EL**, **Weiner H**. 1990b. Neuroimmunologia evolutiva: lo stress da confrontazione sociale nei pesci aggressivi. Neuroscienze, 1: 42-53.
- Faisal M, **Chiappelli F**, Ahmed II, **Cooper EL**, **Weiner H**. 1990a. Social confrontation stress in aggressive fish is associated with an endogenous opioid-mediated suppression of proliferative responses to mitogens and nonspecific cytotoxicity. Brain, Behavior and Immunity, 3: 223-233.
- Saad AH and **Cooper EL**. 1990. Evidence for a Thy-1 like molecule expressed on earthworm leukocytes. Zool. Sci., 7: 217-222.
- Zapata AG and **Cooper EL**. 1990. The Immune System: Comparative Histophysiology. John Wiley & Sons, Chichester, England, 334 pp.
- Cooper EL**. 1992 Perspectives in neuroimmunomodulation: lessons from the comparative approach. Animal Biology. 1:169-180
- Cooper EL**, Wright RK, Klempau AE and Smith CT. 1992. Hibernation alters the frog's immune system. Cryobiology, 29: 616-631.
- Faisal M, **Chiappelli F**, Ahmed II, **Cooper EL**, **Weiner H**. 1992. The role of endogenous opioids in modulation of immunosuppression in fish. Schriftenreihe des Vereins für Wasser-Boden-und Lufthygiene. 89: 785-799.
- Wong CMK, **Chiappelli F**, Chang M-P, Norman DC, **Cooper EL**, Branch BJ and **Taylor AN**. 1992. Prenatal exposure to alcohol enhances thymocyte mitogenic responses postnatally. Int. J. Immunopharmacol. 14: 303-309.
- Cooper EL**, Leung MK, Stefano GB, Cadet P and Suzuki MM. 1993. An enkephalin-like molecule in earthworm coelomic fluid modifies leukocyte behavior. Dev. Comp. Immunol., 17: 201-209.
- Cooper EL**. 1996 (ed.) Invertebrate immune responses: Cell Activities and the Environment. In: Adv. Comp. Environ. Physiol. 24: 1-249.
- Lange S, Nüssler F, Kauschke E, Lutsch G, **Cooper EL**, Herrmann A. 1997 Interaction of earthworm hemolysin with lipid membranes requires sphingolipids. J. Biol. Chem. 272: 20884-20892.
- Cooper EL**. 2003 Effector mechanisms of natural immunity Neuroimmune Biology Vol 7 Elsevier Science, New Foundation of Biology, Chow, D. A. (ed), in press

Salzet M, Tasiemski A, Lefebvre C and **Cooper, E. L.** 2002 Comparison of molecular neuroimmune processes between leeches and humans. Proceedings 18<sup>th</sup> Zoology Congress, Athens GREECE, (in press).