April, 2011

Curriculum Vitae
Pasko Rakic M.D., Ph.D.

Professor of Neurobiology and Neurology, Yale University School of Medicine

Degrees: M.D., Ph.D (l960-69) Medicine, Developmental Biology and Genetics, Univ. Belgrade
M.S. (1978) Honorary, Yale University, New Haven, Connecticut

Research Interests: Developmental Neurobiology; Cellular and Molecular Mechanisms of Neuronal Proliferation, Migration and Synaptogenesis; Genetic and Epigenetic Regulation of Neuronal Interactions during brain development and evolution: Neuropathology of brain disorders.

Professional Experience:

1961-62 Resident in Neurosurgery, University Hospital, Belgrade
1962-66 Clinical and Research Fellow in Neurosurgery, Harvard Medical School, Boston
1967-69 Assistant Professor of Dev. Biology & Genetics, Biological Institute, Belgrade
1969-78 Assistant to Assiciate Professor of Neuropathology, Harvard Medical School, Boston
1978- Dorys McConnell Duberg Chair in Neuroscience, Yale University
2001- Chairman, Department of Neurobiology, Yale University School of Medicine
2004- Director, Kavli Institute for Neuroscience, Yale University

Honors and Awards: Member, National Academy of Sciences, USA; American Academy of Arts and Sciences; Institute of Medicine; Croatian Academy of Arts and Sciences; Serbian Academy of Arts and Sciences; President, Society for Neuroscience, 1996; Kavli Neuroscience Prize; Bristol-Myers Squibb Neuroscience Award; Gerard Prize, SFN, 2002; Karl Spencer Lashley Award, Amer. Philosophical Society; Kreig Life Achivment; Fyssen International Science Prize, Paris; Numerous eponymyc lectures in 28 contries incuding: Grass Foundation (SFN); Selby, Australian Academy of Science; Ariens Kappers (Royal Netherlands Academy), Sherington Cenntenial (Oxford, UK); James Arthur (Am. Museum of Natural History); Darwin's Centennial (Cambridge, UK).

Science Citation Index (ISI Web of Knowledge)
Nº artcles: **350**
Sum of the Times Cited**: 35,326**
h-inde : **98**

Selkected Representative Publications :

Rakic, P. l974 Neurons in the monkey visual cortex: Systematic relation between time of origin and eventual disposition. *Science* l83: 425-427

Rakic, P., Stensaas, L.J., Sayre, E.P.,Sidman, R.L. l974 Computer-aided three-dimensional reconstruction and quantitative analysis of cells from serial electronmicroscopic montages of fetal monkey brain. *Nature* 250: 3l-34

Rakic, P. l976 Prenatal genesis of connections subserving ocular dominance in the rhesus monkey. *Nature* 26l: 467-47l

Schmechel, D.E.,Rakic, P. l979 Arrested proliferation of radial glial cells during midgestation in rhesus monkey. *Nature* 227: 303-305

Rakic, P. l98l Development of visual centers in the primate brain depends on binocular competition before birth. *Science* 2l4: 928-93l

Rakic, P., Riley, K.P. l983 Overproduction and elimination of retinal axons in the fetal rhesus monkey. *Science* 209: 1441-1444

Rakic, P., Riley, K.P. 1983 Regulation of axon numbers in the primate optic nerve by prenatal binocular competition. *Nature* 305: 135-137

Rakic, P. 1985 Limits of neurogenesis in primates. *Science* 227: 1054-1056

Nishimura, Y., Schwartz, M.L. Rakic, P. 1986 GABA and GAD immunoreactivity of photoreceptor terminals in primate retina. *Nature* 230: 753-756

Rakic, P., Bourgeois, J.-P., Eckenhoff, M.E., Zecevic, N.,Goldman-Rakic, P.S. 1986 Concurrent overproduction of synapses in diverse regions of the primate cerebral cortex. *Science* 232: 232-235

Rakic, P. 1988 Specification of cerebral cortical areas. *Science* 241: 170-176

Wikler, K.C., Rakic, P. 1991 Relation of an array of early-differentiating cones to the photoreceptor mosaic in the primate retina. *Nature* 351: 397-400

Komuro, H. and Rakic, P. 1992 Selective role of N-type calcium channels in neuronal migration. *Science* 257: 806-809

Komuro, H., Rakic, P. 1993 Modulation of neuronal migration by NMDA receptors. *Science* 260: 95-97

Kuida, K., Zheng, T.S., Kuang, C.-Y., Yang, D., Rakic, P., Flavell, R.A. 1996 Decreased apoptosis in the brain and premature lethality in CPP32-deficient mice. *Nature,* 384: 368-372

Yang, D., Kuan, C.-Y., Whitmarsh, A.J., Rincon, M. Zheng, T.S., Davis, R.J., Rakic, P., Flavell R.A. 1997 Absence of excitotoxicity-induced apoptosis in the hippocampus of mice lacking the Jnk3 gene. *Nature* 389: 865-870

Qi, H., Rand, M.D., Wu, X., Sestan, N., Wang, W., Rakic, P., Xu., T., Artavanis-Tsakonas, D. 1999 Processing of the Notch ligand Delta by metalloprotease Kuzbanian. *Science* 283: 94-98

Kuan, C.-Y., Yang, D.D., Semantha-Roy, D.R.T., Davis, R.J., Rakic, P. , Flavell, R.A. 1999 The Jnk1 and Jnk2 protein kinases are required for regional-specific apoptosis during early brain development. *Neuron* 22: 667-676

Sestan N, Artavanis-Tsakonas S., Rakic P 1999 Contact-dependent inhibition of cortical neurite growth by Notch signaling. *Science*, 286:741-745

Kornack, R.D., Rakic, P. 2001 Cell proliferation without neurogenesis in the adult primate neocortex. *Science*, 294: 2127-2130

Letinic, K., Zoncu, R. and Rakic, P. 2002 Origin of GABAergic neurons in the human neocortex. *Nature* 417: 645-649

Li, M., Sarkisian, M.R., Mehal, W., Rakic, P., Flavell, RA. 2003 Phosphatidylserine receptor is required for clearance of apoptotic cells. *Sceince,* 302: 1560-1563

Rakic P. 2004 Genetic control of cortical convolutions. *Science* 303: 1983-1984

Sarkisian. M.R., Bartley, C.M., Nakamura, F., Flavell, R.A., Rakic, P. 2006 MEKK4 Regulates Neural Migration and Survival in the Developing Cerebral Cortex. *Neuron.* 52: 789-801

Berghuis, P., Rajnicek, A.M., Morozov, Y.M., Ross, R.A., Mulder, J., Monory, K., Marsicano, G., Matteoli, M., Canty, A., Yanagawa, Y., Rakic, P., Lutz, B, Mackie, K., Harkany, T. 2007 Hardwiring the Brain: Endocannabinoids Control Axon Guidance. *Science,* 316: 1212-1216

Bystron, I., Blakemore, C. , Rakic, P. 2008 Develoment of human cerebral cortex: Boulder Committee revisited. *Nature Revew Neurosci.,* 9: 110-122

Hashimoto-Torii, K., Torii, M. Sarkisian, M.R., Bartley C.B., Shen, J., Radtke, F. Gridley, T., Šestan, N., Rakic, P. 2008 Ineraction between Reelin and Notch signaling regulates neuronal migration in the cerebral cortex. *Neuron.* 60: 273-284

Torii, M, Hashimoto-Torii, K, Levitt, P, and Rakic, P. 2009 Integration of neuronal clones in the radial cortical columns by EphA/ephrin-A signaling. *Nature,* 461: 524-528

Amato S, Liu X, Zheng B, Cantley L, Rakic P, Ma H-Y. 2011 AMP-Activated Protein Kinase Regulates Neuronal Polarization by Interfering with PI 3-Kinase Localization. *Science,* 332: 247-251