Name: Alfredo

Surname: Manfridi

Place and date of birth: Milano, Italy, 9th Dec 1961

Nationality: Italian

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Education:

1981: High School Degree "Liceo Classico Giuseppe Parini", Milano

1987: Degree in Biological Science: summa cum laude, University of Milano, Italy

1990: PhD degree in Neuropharmacology at "Mario Negri Institute", Milano, Italy

1994: PhD degree in Physiology at University of Milano, Italy

Foreign languages:

English

Scientific Society Membership:

American Society for Neuroscience

Working experience and topics:

1985-1986: Institute of General Physiology, University of Milano
Acquisition of basic electrophysiological techniques. Studies of transephitelial transports by means of intracellular ion-selective electrodes

Supervisor: Prof Meyer Giuliano

1987-1990: PhD in neuropharmacology at the "Mario Negri Institute"

1987-1988. Laboratory of Neurochemistry. Study of the effect of diet on aging in rats. Acquisition of in vivo behavioural pharmacoly techniques (passive avoidance test, Morris water maze test) (**2, 3**)

Supervisor: Dr Algeri Sergio

1988-1990. Laboratory of Neuroimmunology. Acquisition of in vivo neurochemical (in vivo voltammetry) and brain surgery techniques. Studies were focused on the following issues:
i) neuroimmunology: cytochines as neurotransmitters and neuromodulators: central activities and interactions with classical neurotrasmitters (**1, 7, 9**)
ii) neuropharmacology: studies of dopaminergic and serotonergic agonists and antagonists on CNS using in vivo voltammetry (**4, 5, 6**)

Supervisor: Dr De Simoni Maria Grazia

1990-1994: PhD in Physiology at the Institute of Human Physiology II, University of Milano. Acquisition of in vitro tissue culture techniques. Study on aging (**8**)

Supervisor: Prof. Mancia Mauro

1992-1993 Post-doc in the Department of Physiology and Biophysic, New York University Medical Center. Acquisition of current clamp electrophysiological techniques for in vitro recordings

in brain slices with sharp electrodes. Study on calcium currents in CNS

Supervisor: Prof Llinas Rodolfo

1994-2004 Assistant Professor (Senior Lecturer from 2002) at Institute of Human Physiology II, Milano.
In vivo and in vitro studies focused on
i) sleep-wake cycle mechanisms (**10, 13, 15, 18**)
ii) patho-physiology in the CNS (**11, 12, 14, 16, 17, 19**)

2003-2004 Sabbatical at the Physiology and Pharmacology Dept, University of Queensland, Brisbane, Australia. Studies on synaptic modulation and calcium currents

Teaching experiences

From 1994 teaching courses of Physiology and Neurophysiology in University of Milano

References

Dr. De Curtis Marco, Chief of laboratory of Neurophysiology
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Dr. De Simoni Maria Grazia, Chief of laboratory of Neuroimmunology
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Dr Frederic Meunier, Lecturer
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List of Pubblications

1) De Simoni MG, Sironi M, De Luigi A, Manfridi A, Mantovani A and Ghezzi P. Intracerebroventricular injection of interleukin-1 induces high circulating levels of interleukin-6. **J Exp Med** 171:1773-1778 (1990) **IF 15.6**

2) Pitsikas N, Garofalo P, Manfridi A, Zanotti A and Algeri S. Effect of life-long hypocaloric diet on discrete memory of aged rats. **Aging** 3:147-152 (1991) **IF 1.3**

3)Algeri S, Biagini L, Manfridi A and Pitsikas N. Effect of age and diet in the evolution of the cognitive functionsin the aged rats. A longitudinal study. **Neurobiol of aging** 12:277-282 (1991) **IF 6.1**

4) Manfridi A, Forloni GL, Vezzani A, Fodritto F and De Simoni MG. Functional and histological consequences of quinolinic and kainic acid-induced seizures on hippocampal somatostatin neurons. **Neurosci** 41:127-135 (1991) **IF 3.4**

5) De Simoni MG, De Luigi A, Clavenna A and Manfridi A. In vivo studies of the enhancement of serotonin uptake by tianeptine. **Brain Res** 574:93-97 (1992) **IF 2.4**

6) Manfridi A, Clavenna A and De Simoni MG. Serotonin uptake inhibition: in vivo effect of sertraline. **Neurosci Lett** 136:69-72 (1992) **IF 2.1**

7) De Simoni MG, De Luigi A, Gemma C, Faggioni R, Gatti S, Manfridi A, Sironi M and Ghezzi P. Central nervous system-mediated induction of systemic IL-6 and TNF. In **"Phatophysiology and Pharmacology of Cytochines"**, eds Mantovani A and Ghezzi P, Biomedical Press, NY (1992)

8) Manfridi A, Forloni GL, Arrigoni-Martelli E and Mancia M. Culture of dorsal root ganglion neurons from aged rats: effect of acetyl-L-carnitine and NGF. **Intern J Dev Neurosci** 10/4:321-331 (1992) **IF 2.2**

9) De Simoni MG, De Luigi A, Gemma C, Sironi M, Manfridi A and Ghezzi P. Modulation of systemic IL-6 induction by central IL-1**. Am J Physiol** (Reg) 265:R739-R742 (1993) **IF 3.1**

10) Manfridi A and Mancia M. Desynchronized (REM) sleep inhibition induced by carbachol microinjections into the nucleus basalis of Meynert is mediated by the glutamatergic system. **Exp Brain Res** 109:174-178 (1996) **IF 2.3**

11) De Curtis M, Manfridi A and Biella G. Activity-dependent pH shifts and periodic recurrence of spontaneous interictal spikes in a model of focal epileptogenensis. **J Neurosci** 18:7543-7551 (1998) **IF 8**

12) Scalabrino G, Nicolini G, Buccellato FR, Peracchi M, Tredici G, Manfridi A and Pravettoni G. Epidermal growth factor as a local mediator of the neurotrophic action of vitamin B12 (cobalamin) in the rat central nervous system. **FASEB J** 13:2083-2090 (1999) **IF 7.25**

13) Manfridi A, Brambilla D and Mancia M. Stimulation of glutamatergic NMDA and AMPA receptors in the rat nucleus basalis of Meynert affects the sleep-wake cycle. **Am J Physiol** (Reg) 277:R1488-R1492 (1999) **IF 3.15**

14) Scalabrino G, Tredici G, Buccellato FR and Manfridi A. New evidence for the involvment of epidermal growth factor in the signaling pathway of vitameni B12 (cobalamin) in the rat central nervous system. **J Neuropath Exp Neur** 59:808-814 (2000) **IF 4.95**

15) Manfridi A, Brambilla D and Mancia M. Sleep is differentially modulated by basal forebrain GABAa and GABAb receptors. **Am J Physiol** (Reg) 281:R170-R175 (2001) **IF 3.1**

16) Amzica F, Massimini M and Manfridi A. Spatial buffering during slow and paroxysmal sleep oscillations in cortical networks of glial cells in vivo**. J Neurosci** 22(3):1042-1053 (2002) **IF 8**

17) Scalabrino G, Corsi MM, Veber D, Buccellato FR, Pravettoni G, Manfridi A, Magni P. Cobalamin (vitamin B12) positively regulates inteleukin-6 levels in rat cerebrospinal fluid. **J Neuroimmunol** 127:37-43 (2002) **IF 3.57**

18) Manfridi A, Brambilla D, Bianchi S, Mariotti M, Opp MR and Imeri L. Interleukin-1 microinjected into the dorsal raphe nucleus enhance non-rapid eye movement sleep by inhibiting serotonergic neurons. **Eur J Neurosci** 18(5):1041-1049 (2003) **IF 4.16**

19) Imeri L, Ceccarelli O, Mariotti M, Manfridi A, Opp MR and Mancia M. Sleep, but not febrile responses of Fisher 344 rats to immune challange are affected by aging. **Brain Behav Immun** 18(4):399-404 (2004) **IF 2.94**

Total IF 83.6