

**DIPARTIMENTO DI FISIOLOGIA E FARMACOLOGIA "V. ERSPAMER"****MAURA PALMERY**

Luogo di nascita: Roma, Italia

Sposata con una figlia

**Attuale Posizione: Professore Associato di Farmacologia,
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INDIRIZZO

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FORMAZIONE

- 1976: Laurea in Scienze Biologiche 110/110 e lode conseguita presso l'Università degli Studi di Roma "La Sapienza"
- 1972: Maturità Classica conseguita presso il Liceo "Terenzio Mamiani" di Roma

ESPERIENZE PROFESSIONALI

- 2005 – present: Professore Associato, presso l'Università "La Sapienza" di Roma, Dipartimento di Fisiologia e Farmacologia "Vittorio Erspamer"
- 1992 – 2004: Ricercatore, presso l'Università "La Sapienza" di Roma
- 1989 – 1991: Assistente tecnico presso l'Istituto di Farmacologia e Farmacognosia, l'Università "La Sapienza" di Roma
- 1976 – 1988: presta il suo servizio presso l'Istituto di Farmacologia e Farmacognosia Facoltà di Farmacia

ATTIVITÀ ACCADEMICA

- 2017 – presente: Coordinatore del Corso di Dottorato in Farmacologia e Tossicologia, presso l'Università "La Sapienza"
- 1990 – 2017: Membro del Collegio dei Docenti del Corso di Dottorato in Farmacologia e Tossicologia, presso l'Università "La Sapienza"
- Membro della Commissione Qualità Facoltà di Farmacia
- 2005 – presente: Docente di Farmacologia e Farmacoterapia, Corso di Laurea in Farmacia presso la Facoltà di Farmacia della stessa Università
- 2001 – presente: Docente di Farmacologia e Tossicologia, Corso di Laurea in Farmacia presso la Facoltà di Farmacia della stessa Università



- 2005 – 2017: Docente di Tossicologia, Corso di Laurea in Farmacia presso la Facoltà Biotecnologie della stessa Università
- 1978 – presente: Tutor di student laureandi e laureati

ATTIVITÀ EDITORIALE

- 2016 – 2018: Guest Editor Oxidative Medicine and Cellular Longevity
- 2017: Plos One Editorial Board

AFFILIAZIONI SOCIETÀ PROFESSIONALI

- Società Italiana di Farmacologia
- Società Italiana di Farmacognosia
- Società Italiana di Tossicologia

PREMI E FINANZIAMENTI OTTENUTI IN QUALITÀ DI COORDINATORE O DI RESPONSABILE DI UNITÀ

- Shooting light on the social, cognitive and emotional brain: An optogenetic approach in rodents. Responsabile della Ricerca: Prof. Maura Palmery (Ateneo 2016)
- Study for the effects of the association of Gelificant fibres, Prebiotic fibres, probiotics and chocolate on the REDOX status of Leukocytes in Post-prandial fase, in relation of metabolic markers. Responsabile della Ricerca: Prof. Maura Palmery (Ateneo 2015)
- Ruolo dei canali del potassio nell'espressione della dipendenza da oppiacei. Responsabile della Ricerca: Prof. Maura Palmery (Ateneo Federato delle Scienze delle Politiche Pubbliche e Sanitarie SPPS - 2009)
- Reciproche interazioni tra i sistemi cannabinoide – adenosinico ed oppioide sulle rispettive withdrawal nel digiuno di coniglio. Responsabile della Ricerca: Prof. Maura Palmery (Progetti di ricerca Facoltà, 2006)

BREVE DESCRIZIONE DELL'ATTIVITÀ DI RICERCA DEGLI ULTIMI CINQUE ANNI

La mia ricerca si concentra sul ruolo del sistema endocannabinoide nel controllo del comportamento emotivo nei roditori. La sua applicazione clinica e il suo valore traslazionale sono rappresentati dallo sviluppo di nuovi bersagli farmacologici per il trattamento di disturbi psichiatrici legati allo stress. Ho scoperto che il miglioramento del tono dell'endocannabinoide si traduce in effetti marcati ansiolitici e antidepressivi. Questa scoperta ha aperto nuovi orizzonti per l'intervento clinico, portando a un imminente studio clinico con farmaci in grado di bloccare l'idrolisi dell'anandamide come candidati per il trattamento dei disturbi dell'umore. I risultati ottenuti dimostrano chiaramente che gli endocannabinoidi modulano la risposta agli eventi che causano disagio emotivo. Ho recentemente ampliato questa scoperta, dimostrando che il sistema dei cannabinoidi regola anche i ricordi degli eventi emotivi.

Negli ultimi anni la mia ricerca si è concentrata sui meccanismi neurali alla base dello sviluppo di disturbi legati allo stress in pazienti ICU. Ho scoperto che l'ICU usato farmaci sedativi, come il propofol, può migliorare il consolidamento della memoria per eventi traumatici. Tale scoperta apre nuovi orizzonti che portano a nuovi approcci terapeutici per il blocco della formazione della memoria post-traumatica nei pazienti in terapia intensiva.

Negli ultimi anni, la mia ricerca si è concentrata anche sul metodo Peroxidation of Leukocytes index ratio (PLIR) e sulla possibile applicazione del metodo PLIR nel valutare la relazione con i marcatori



patologici. La valutazione del burst ossidativo è particolarmente rilevante in molte condizioni patologiche e subcliniche. La citometria a flusso fornisce misure rapide e accurate della produzione di specie reattive dell'ossigeno da parte dei leucociti nella maggior parte delle situazioni. La valutazione dello stress ossidativo ha implicazioni cliniche perché aumenta il rischio di molte malattie. Paradossalmente, lo stato infiammatorio cronico produce una ridotta resistenza alle infezioni, riducendo la capacità dei neutrofili di produrre radicali liberi come difesa contro i patogeni.

Il burst ossidativo può essere utilizzato come misura affidabile della risposta immunitaria innata di un ospite, che costituisce la prima linea di difesa contro gli agenti patogeni invasori. Il PLIR, che misura sia la resistenza dei leucociti a uno stress ossidativo esogeno che la loro capacità funzionale di burst ossidativo in risposta all'attivazione, potrebbe essere un metodo flessibile nella pratica clinica.

PUBBLICAZIONI SCIENTIFICHE

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2. Valeri P., Palmery M., Patacchioli F.R., Catalani A., Tita B., Angelucci L. (1980) Role and regulation of brain glucocorticoid receptors. *Pharmacological Research Communications* (ISSN: 0031-6989), 283-292, 12
3. De Feo G., Mazzanti G., Durando L. and Palmery M. (1985) New psychotropic agents. I. Synthesis and pharmacologic activity of derivatives of 5H-imidazo-[2,1-c][1,4]benzodiazepine. *Il Farmaco. Edizione Scientifica* (ISSN: 0430-0920), 429-441, 40
4. Valeri P., Palmery M. and Catanese B. (1985) Distribution and excretion of 3H-dapiprazole in the rat. *Pharmacological Research Communications* (ISSN: 0031-6989), 417-424, 17
5. Valeri P., Palmery M., Tita B., Silvestrini B. (1985) Investigations on the ocular pharmacokinetics of bendazac in rabbits. *Experimental and Molecular Pathology* (ISSN: 0014-4800), 283-287, 43
6. Valeri P., Palmery M., Severini C., Piccinelli D., Catanese B. (1986) Ocular pharmacokinetics of Dapiprazole. *Pharmacological Research Communications* (ISSN: 0031-6989), 1093-1105, 18
7. Valeri P., Palmery M., Martinelli B. and Catanese B. (1987) Absorption of Bendazac Lysine after topical application to the rabbit eye. *Pharmacological Research Communications* (ISSN: 0031-6989), 517-525, 19
8. Valeri P., Palmery M. and Silvestrini B. (1988) Binding profile of trazodone and dapiprazole to some brain receptors. *Drugs Under Experimental and Clinical Research* (ISSN: 0378-6501), 53-58, 14 (1)
9. Silvestrini B., Palmery M. and Severini C. (1988) Effect of D-Lysergic Acid Diethylamine on serotonin, adrenaline and dopamine evoked aorta contractions. *Pharmacological Research Communications* (ISSN: 0031-6989), 435-436, 20 (5)
10. Romanelli L., Morrone L.A., Palmery M., Piccinelli D., Valeri P. (1989) Time course and metabolism of acetaminophen in some ocular tissues of rabbit. *Pharmacological Research* (ISSN: 1043-6618), 661-662, 21
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14. Palmery M., Leone M.G., Pimpinella G. and Romanelli L. (1993) Effects of *Hydrastis canadensis* L. and the two major alkaloids berberine and hydrastine on rabbit aorta. *Pharmacological Research* (ISSN: 1043-6618), 73-74, 27 (1)
15. Palmery M., Pimpinella G., Saso L. and Silvestrini B. (1993) Facilitating effect of amphetamine and harmaline on blood pressure response to biogenic amines in rats. *Pharmacological Research* (ISSN: 1043-6618), 75-76, 27 (1)
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20. Cometa M.F., Galeffi C., Palmery M. (1996) Acute effect of alkaloids from *Hydrastis canadensis* L. on Guinea-Pig ileum: structure activity relationships. *Phytotherapy Research* (ISSN: 0951-418X), 56-58, 10
21. Bolle P., Casini M.L., Mazzanti G., Palmery M., Tita B., Tucci P. (1996) Facilitating effect of Harmaline on Phenylephrine contraction in rabbit urethra. *Phytotherapy Research* (ISSN: 0951-418X), 42-44, 10
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