

CURRICULUM VITAE di:

Nominativo	Reale Marcella
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Posizione accademica

Macrosettore:	06 PATOLOGIA E DIAGNOSTICA DI LABORA TORIO
Settore Concorsuale:	06/A2 – PATOLOGIA GENERALE E PATOLOLGIA CLINICA,
Settore Scientifico Disciplinare:	MED/04 PATOLOGIA GENERALE
Qualifica:	PA
Anzianità nel ruolo:	13 anni (dal 2010)
Sede Universitaria:	Università "G.d'Annunzio", Chieti-Pescara
Struttura di afferenza (dipartimento o altro)	Dipartimento di Tecnologie Innovative in Medicina e Odontoiatria

Posizioni ricoperte precedentemente nel medesimo ateneo o in altri

Periodo	Fascia	Ateneo
1993-2001	Funzionario Tecnico	Università "G.d'Annunzio", Chieti-Pescara
2001-2010	Ricercatore Confermato	Università "G.d'Annunzio", Chieti-Pescara

Pubblicazioni Scientifiche

n. prog	anno	descrizione
1	2023	Kopp KO, Greer ME, Glotfelty EJ, Hsueh SC, Tweedie D, Kim DS, Reale M , Vargesson N, Greig NH. A New Generation of IMiDs as Treatments for Neuroinflammatory and Neurodegenerative Disorders. <i>Biomolecules</i> . 2023;13(5):747. doi: 10.3390/biom13050747. EISSN 2218-273X,
2	2023	Costantini E, Carrarini C, Borrelli P, De Rosa M, Calisi D, Consoli S,D'Ardes D, Cipollone F, Di Nicola M, Onofri M, Reale M , Bonanni L. Different peripheral expression patterns of the nicotinic acetylcholine receptor in dementia with Lewy bodies and Alzheimer's disease. <i>Immun Ageing</i> . 2023;20(1):3. doi: 10.1186/s12979-023-00329-9. ISSN: 1742-4933
3		Costantini E, Sinjari B, Di Giovanni P, Aielli L, Caputi S, Muraro R, Murmura G, Reale M . TNF α , IL-6, miR-103a-3p, miR-423-5p, miR-23a-3p, miR-15a-5p and miR-223-3p in the crevicular fluid of periodontopathic patients correlate with each other and at different stages of the disease. <i>Sci Rep</i> . 2023 Jan4;13(1):126. doi: 10.1038/s41598-022-26421-6. ISSN 2045-2322
4		Costantini E, Jarlapoodi S, Serra F, Aielli L, Khan H, Belwal T, Falasca K, Reale M . Neuroprotective Potential of Bacopa monnieri: Modulation of Inflammatory Signals. <i>CNS Neurol Disord Drug Targets</i> .

		2023;22(3):441-451. doi:10.2174/187152732166622011124047. Q ISSN 1871-5273
5	2022	Costantini E, Di Nicola M, Marchioni M, Aielli L, Reale M , Schips L. Effects of Curcumin and Lactoferrin to Inhibit the Growth and Migration of Prostatic Cancer Cells. <i>Int J Environ Res Public Health</i> . 2022 Dec 3;19(23):16193. doi:10.3390/ijerph192316193. ISSN: 1660-4601
6	2022	Reale M , Costantini E, Aielli L, Di Giuseppe F, Angelucci S, Kamal MA, Greig NH. Proteomic Signature and mRNA Expression in Hippocampus of SAMP8 and SAMR1 Mice during Aging. <i>Int J Mol Sci</i> . 2022 Dec 1;23(23):15097. doi:10.3390/ijms232315097. ISSN1422-0067
7	2022	Costantini E, Masciarelli E, Casorri L, Di Luigi M, Reale M . Medicinal herbs and multiple sclerosis: Overview on the hard balance between new therapeutic strategy and occupational health risk. <i>Front Cell Neurosci</i> . 2022 Nov10;16:985943. doi: 10.3389/fncel.2022.985943 <i>Review</i> ISSN: 1662-5102.
8	2022	Costantini E, Marconi GD, Fonticoli L, Aielli L, Trubiani O, Rajan TS, Pizzicannella J, Reale M , Diomede F. Improved osteogenic differentiation by extremely low electromagnetic field exposure: possible application for bone engineering. <i>Histochem Cell Biol</i> . 2022 Oct;158(4):369-381. doi:10.1007/s00418-022-02126-9. ISSN 0948-6143
9	2022	Marinelli L, Cacciatore I, Costantini E, Dimmito MP, Serra F, Di Stefano A, Reale M . Wound-Healing Promotion and Anti-Inflammatory Properties of Carvacrol Prodrugs/Hyaluronic Acid Formulations. <i>Pharmaceutics</i> . 2022 Jul 14;14(7):1468. doi: 10.3390/pharmaceutics14071468. ISSN 1999-4923
10	2022	Costantini E, Aielli L, Serra F, De Dominicis L, Falasca K, Di Giovanni P, Reale M . Evaluation of Cell Migration and Cytokines Expression Changes under the Radiofrequency Electromagnetic Field on Wound Healing In Vitro Model. <i>Int J Mol Sci</i> . 2022 Feb 17;23(4):2205. doi: 10.3390/ijms23042205. ISSN 1422-0067
11	2022	Reale M , Carrarini C, Russo M, Dono F, Ferri L, Di Pietro M, Costantini E, Porreca A, Di Nicola M, Onofri M, Bonanni L. Muscarinic Receptors Expression in the Peripheral Blood Cells Differentiate Dementia with Lewy Bodies from Alzheimer's Disease. <i>J Alzheimers Dis</i> . 2022;85(1):323-330. doi:10.3233/JAD-215285. ISSN 1387-2877
12	2021	Reale M , Ucciferri C, Costantini E, Di Nicola M, Porreca A, Di Giovanni P, Pontolillo M, Auricchio A, Vecchiet J, Falasca K. Effects of Probiotic Mixture Supplementation on the Immune Response to the 13-Valent Pneumococcal Conjugate Vaccine in People Living with HIV. <i>Nutrients</i> . 2021 Dec 9;13(12):4412. doi: 10.3390/nu13124412. ISSN 2072-6643
13	2021	Marinelli L, Cacciatore I, Eusepi P, Dimmito MP, Di Rienzo A, Reale M , Costantini E, Borrego-Sánchez A, García-Villén F, Viseras C, Morroni G, Fioriti S, Brescini L, Di Stefano A. In Vitro Wound-Healing Properties of Water-Soluble Terpenoids Loaded on Halloysite Clay. <i>Pharmaceutics</i> . 2021 Jul 22;13(8):1117. doi: 10.3390/pharmaceutics13081117 ISSN 1999-4923.
14	2021	D'Angelo C, Costantini E, Salvador N, Marchioni M, Di Nicola M, Greig NH, Reale M . nAChRs gene expression and neuroinflammation in APPswe/PS1dE9 transgenic mouse. <i>Sci Rep</i> . 2021 Jul 6;11(1):14314. doi:10.1038/s41598-021-93288-4. ISSN 2045-2322
15	2021	Gualdi G, Costantini E, Reale M , Amerio P. Wound Repair and Extremely Low Frequency-Electromagnetic Field: Insight from In Vitro Study and Potential Clinical Application. <i>Int J Mol Sci</i> . 2021 May 10;22(9):5037. doi: 10.3390/ijms22095037. <i>Review</i> ISSN 1422-0067
16	2021	Costantini E, Sinjari B, Falasca K, Reale M , Caputi S, Jagarlapodii S, Murmura G. Assessment of the Vanillin Anti-Inflammatory and Regenerative Potentials in Inflamed Primary Human Gingival Fibroblast. <i>Mediators Inflamm</i> . 2021 May 4;2021:5562340. doi: 10.1155/2021/5562340 ISSN 0962-9351.
17	2021	Reale M , Costantini E. Cholinergic Modulation of the Immune System in Neuroinflammatory Diseases. <i>Diseases</i> . 2021 Apr 12;9(2):29. doi: 10.3390/diseases9020029. <i>Review</i> ISSN 2079-9721
18	2021	Reale M , Costantini E, Greig NH. Cytokine Imbalance in Schizophrenia. From Research to Clinic: Potential Implications for Treatment. <i>Front Psychiatry</i> . 2021 Mar 5;12:536257. doi: 1910.3389/fpsyt.2021.536257. <i>Review</i> ISSN1664-0640
19	2021	Mastropasqua R, D'Aloisio R, Costantini E, Porreca A, Ferro G, Libertini D, Reale M , Di Nicola M, Viggiano P, Falconio G, Toto L. Serum microRNA Levels in Diabetes Mellitus. <i>Diagnostics (Basel)</i> . 2021 Feb 11;11(2):284. doi:10.3390/diagnostics11020284. <i>Review</i> ISSN 2075-4418
20	2021	Ucciferri C, Falasca K, Reale M , Tamburro M, Auricchio A, Vignale F, Vecchiet J. Pidotimod and Immunological Activation in Individuals Infected with HIV. <i>Curr HIV Res</i> . 2021;19(3):260-268. doi: 10.2174/1570162X18666210111102046. ISSN 1548-3576
21	2020	Patrino A, Costantini E, Ferrone A, Pesce M, Diomede F, Trubiani O, Reale M . Short ELF-EMF Exposure Targets SIRT1/Nrf2/HO-1 Signaling in THP-1 Cells. <i>Int J Mol Sci</i> . 2020 Oct 2;21(19):7284. doi: 10.3390/ijms21197284. ISSN 1422-0067
22	2020	Giuliani A, Zuccarini M, Cichelli A, Khan H, Reale M . Critical Review on the Presence of Phthalates in Food and Evidence of Their Biological Impact. <i>Int J Environ Res Public Health</i> . 2020 Aug 5;17(16):5655. doi: 10.3390/ijerph17165655. <i>review</i> ISSN1660-4601
23	2020	Gatta V, Mengod G, Reale M , Tata AM. Possible Correlation between Cholinergic System Alterations and

		Neuro/Inflammation in Multiple Sclerosis. <i>Biomedicines</i> . 2020 Jun 8;8(6):153. doi: 10.3390/biomedicines8060153. <i>Review</i> ISSN 2227-9059
24	2020	Reale M , Velluto L, Di Nicola M, D'Angelo C, Costantini E, Marchioni M, Cerroni G, Guarnieri B. Cholinergic Markers and Cytokines in OSA Patients. <i>Int J Mol Sci</i> . 2020 May 5;21(9):3264. doi: 10.3390/ijms21093264 ISSN 1422-0067.
25	2020	Costantini E, Sinjari B, Piscopo F, Porreca A, Reale M , Caputi S, Murmura G. Evaluation of Salivary Cytokines and Vitamin D Levels in Periodontopathic Patients. <i>Int J Mol Sci</i> . 2020 Apr 11;21(8):2669. doi: 10.3390/ijms21082669. ISSN 1422-0067
26	2020	Reale M , Costantini E, D'Angelo C, Coppeta L, Mangifesta R, Jagarlapoodi S, Di Nicola M, Di Giampaolo L. Network between Cytokines, Cortisol and Occupational Stress in Gas and Oilfield Workers. <i>Int J Mol Sci</i> . 2020 Feb 7;21(3):1118. doi: 10.3390/ijms21031118. ISSN 1422-0067
27	2020	Reale M , Gonzales-Portillo I, Borlongan CV. Saliva, an easily accessible fluid as diagnostic tool and potent stem cell source for Alzheimer's Disease: Present and future applications. <i>Brain Res</i> . 2020 Jan 15;1727:146535. doi: 10.1016/j.brainres.2019.146535. <i>Review</i> ISSN 0006-8993
28	2020	Reale M , Costantini E, Jagarlapoodi S, Khan H, Belwal T, Cichelli A. Relationship of Wine Consumption with Alzheimer's Disease. <i>Nutrients</i> . 2020 Jan13;12(1):206. doi: 10.3390/nu12010206. <i>Review</i> ISSN 2072-6643
29	2020	Khan H, Reale M , Ullah H, Sureda A, Tejada S, Wang Y, Zhang ZJ, Xiao J. Anti-cancer effects of polyphenols via targeting p53 signaling pathway: updates and future directions. <i>Biotechnol Adv</i> . 2020 Jan-Feb;38:107385. doi:10.1016/j.biotechadv.2019.04.007 <i>Review</i> ISSN 0734-9750.
30	2019	Falasca K, Reale M , Di Nicola M, Ucciferri C, Zecca IA, Santilli F, Pontolillo M, Liani R, D'Angelo C, Costantini E, Vecchiet J. Circulating CD40 ligand, Dickkopf-1 and P-selectin in HIV-infected patients. <i>HIV Med</i> . 2019 Nov;20(10):681-690. doi: 10.1111/hiv.12789. ISSN 1468-1293
31	2019	Costantini E, Sinjari B, D'Angelo C, Murmura G, Reale M , Caputi S. Human Gingival Fibroblasts Exposed to Extremely Low-Frequency Electromagnetic Fields: In Vitro Model of Wound-Healing Improvement. <i>Int J Mol Sci</i> . 2019 Apr 29;20(9):2108. doi: 10.3390/ijms20092108. ISSN 1422-0067
32	2019	D'Angelo C, Franch O, Fernández-Paredes L, Oreja-Guevara C, Núñez-Beltrán M, Comins-Boo A, Reale M , Sánchez-Ramón S. Antiphospholipid Antibodies Overlapping in Isolated Neurological Syndrome and Multiple Sclerosis: Neurobiological Insights and Diagnostic Challenges. <i>Front Cell Neurosci</i> . 2019 Mar 19;13:107. doi: 10.3389/fncel.2019.00107. <i>Review</i> ISSN 1662-5102
33	2019	Marinelli L, Fornasari E, Di Stefano A, Turkez H, Genovese S, Epifano F, Di Biase G, Costantini E, D'Angelo C, Reale M , Cacciatore I. Synthesis and biological evaluation of novel analogues of Gly-I-Pro-I-Glu (GPE) as neuroprotective agents. <i>Bioorg Med Chem Lett</i> . 2019 Jan 15;29(2):194-198. doi: 10.1016/j.bmcl.2018.11.057. ISSN 1464-3405
34	2018	Reale M , Conti L, Velluto D. Immune and Inflammatory-Mediated Disorders: From Bench to Bedside. <i>J Immunol Res</i> . 2018 Sep 3;2018:7197931. doi:10.1155/2018/7197931. <i>Editorial</i> ISSN 2314-8861
35	2018	Reale M , D'Angelo C, Costantini E, Laus M, Moretti A, Croce A. MicroRNA in Sjögren's Syndrome: Their Potential Roles in Pathogenesis and Diagnosis. <i>J Immunol Res</i> . 2018 Jun 7;2018:7510174. doi: 10.1155/2018/7510174. <i>Review</i> ISSN 2314-8861
36	2018	D'Angelo C, Reale M , Costantini E, Di Nicola M, Porfilio I, de Andrés C, Fernández-Paredes L, Sánchez-Ramón S, Pasquali L. Profiling of Canonical and Non-Traditional Cytokine Levels in Interferon- β -Treated Relapsing-Remitting- Multiple Sclerosis Patients. <i>Front Immunol</i> . 2018 Jun 4;9:1240. doi: 10.3389/fimmu.2018.01240. ISSN 1664-3224
37	2018	Patruno A, Ferrone A, Costantini E, Franceschelli S, Pesce M, Speranza L, Amerio P, D'Angelo C, Felaco M, Grilli A, Reale M . Extremely low-frequency electromagnetic fields accelerates wound healing modulating MMP-9 and inflammatory cytokines. <i>Cell Prolif</i> . 2018 Apr;51(2):e12432. doi:10.1111/cpr.12432. ISSN 1365-2184
38	2018	Costantini E, D'Angelo C, Reale M . The Role of Immunosenescence in Neurodegenerative Diseases. <i>Mediators Inflamm</i> . 2018 Mar 8;2018:6039171. doi:10.1155/2018/6039171. <i>Review</i> ISSN 0962-9351
39	2018	Reale M , Costantini E, Di Nicola M, D'Angelo C, Franchi S, D'Aurora M, Di Bari M, Orlando V, Galizia S, Ruggieri S, Stuppia L, Gasperini C, Tata AM, Gatta V. Butyrylcholinesterase and Acetylcholinesterase polymorphisms in Multiple Sclerosis patients: implication in peripheral inflammation. <i>Sci Rep</i> . 2018 Jan 22;8(1):1319. doi: 10.1038/s41598-018-19701-7. ISSN 2045-2322
40	2018	Reale M , D'Angelo C, Costantini E, Di Nicola M, Yarla NS, Kamal MA, Salvador N, Perry G. Expression Profiling of Cytokine, Cholinergic Markers, and Amyloid- β Deposition in the APPSWE/PS1dE9 Mouse Model of Alzheimer's Disease Pathology. <i>J Alzheimers Dis</i> . 2018;62(1):467-476. doi: 10.3233/JAD-170999. ISSN 1387-2877
41	2017	D'Angelo C, Reale M , Costantini E. Microbiota and Probiotics in Health and HIV Infection. <i>Nutrients</i> . 2017 Jun 16;9(6):615. doi: 10.3390/nu9060615. <i>Review</i> ISSN 2072-6643
42	2017	Falasca K, Reale M , Ucciferri C, Di Nicola M, Di Martino G, D'Angelo C, Coladonato S, Vecchiet J. Cytokines, Hepatic Fibrosis, and Antiretroviral Therapy Role in Neurocognitive Disorders HIV Related.

		AIDS Res Hum Retroviruses. 2017 Mar;33(3):246-253. doi: 10.1089/AID.2016.0138. ISSN 1931-8405
43	2017	Putta S, Peluso I, Yarla NS, Kilari EK, Bishayee A, Lu DY, Barreto GE, Ashraf GM, Scotti L, Scotti MT, Singla RK, Alexiou T, Atanasov AG, Tarasov VV, Bramhachari PV, Imandi SB, Chintala M, Sharma B, Reale M , Filosa R, Aliev G, Kamal MA. Diabetes Mellitus and Male Aging: Pharmacotherapeutics and Clinical Implications. Curr Pharm Des. 2017;23(30):4475-4483. doi:10.2174/1381612823666170823103830. Review ISSN 1381-6128
44	2017	Regen F, Hellmann-Regen J, Costantini E, Reale M . Neuroinflammation and Alzheimer's Disease: Implications for Microglial Activation. Curr Alzheimer Res. 2017;14(11):1140-1148. doi: 10.2174/1567205014666170203141717. Review ISSN1567-2050
45	2017	Reale M . and Sánchez-Ramón S. Lipids at the Cross-road of Autoimmunity in Multiple Sclerosis. Current Medicinal Chemistry. 2017, 24(2), 176-192. Review ISSN 0929-8673
46	2016	Di Bari M, Reale M , Di Nicola M, Orlando V, Galizia S, Porfilio I, Costantini E, D'Angelo C, Ruggieri S, Biagioni S, Gasperini C, Tata AM. Dysregulated Homeostasis of Acetylcholine Levels in Immune Cells of RR-Multiple Sclerosis Patients. Int J Mol Sci. 2016 Nov 30;17(12):2009. doi:10.3390/ijms17122009. ISSN 1422-0067
47	2016	Cacciatore I, Marinelli L, Fornasari E, Cerasa LS, Eusepi P, Türkez H, Pomilio C, Reale M , D'Angelo C, Costantini E, Di Stefano A. Novel NSAID-Derived Drugs for the Potential Treatment of Alzheimer's Disease. Int J Mol Sci. 2016 Jun 30;17(7):1035. doi: 10.3390/ijms17071035. ISSN 1422-0067
48	2016	Cacciatore I, Fornasari E, Di Stefano A, Marinelli L, Cerasa LS, Turkez H, Aydin E, Moretto A, Ferrone A, Pesce M, di Giacomo V, Reale M , Costantini E, Di Giovanni P, Speranza L, Felaco M, Patruno A. Development of glycine- α -methyl-proline-containing tripeptides with neuroprotective properties. Eur J Med Chem. 2016 Jan 27;108:553-563. doi: 10.1016/j.ejmech.2015.12.003. ISSN 0223-5234
49	2016	Reale M , D'Angelo C, Costantini E, Tata AM, Regen F, Hellmann-Regen J. Effect of Environmental Extremely Low-Frequency Electromagnetic Fields Exposure on Inflammatory Mediators and Serotonin Metabolism in a Human Neuroblastoma Cell Line. CNS Neurol Disord Drug Targets. 2016;15(10):1203-1215. doi:10.2174/1871527315666160920113407. ISSN 1871-5273
50	2015	Reale M , Di Bari M, Di Nicola M, D'Angelo C, De Angelis F, Velluto L, Tata AM. Nicotinic receptor activation negatively modulates pro-inflammatory cytokine production in multiple sclerosis patients. Int Immunopharmacol. 2015 Nov;29(1):152-7. doi: 10.1016/j.intimp.2015.06.034. I.F. 2.472 ISSN 1878-170
51	2015	Patruno A, Pesce M, Grilli A, Speranza L, Franceschelli S, De Lutiis MA, Vianale G, Costantini E, Amerio P, Muraro R, Felaco M, Reale M . mTOR Activation by PI3K/Akt and ERK Signaling in Short ELF-EMF Exposed Human Keratinocytes. PLoS One. 2015 Oct 2;10(10):e0139644. doi: 10.1371/journal.pone.0139644. ISSN1932-6203
52	2015	Falasca K, Vecchiet J, Ucciferri C, Di Nicola M, D'Angelo C, Reale M . Effect of Probiotic Supplement on Cytokine Levels in HIV-Infected Individuals: A Preliminary Study. Nutrients. 2015 Sep 28;7(10):8335-47. doi: 10.3390/nu7105396. ISSN 2072-6643
53	2015	Patruno A, Tabrez S, Pesce M, Shakil S, Kamal MA, Reale M . Effects of extremely low frequency electromagnetic field (ELF-EMF) on catalase, cytochrome P450 and nitric oxide synthase in erythro-leukemic cells. Life Sci. 2015 Jan15;121:117-23. doi: 10.1016/j.lfs.2014.12.003ISSN 0024-3205
54	2015	D'Angelo C, Costantini E, Kamal MA, Reale M . Experimental model for ELF-EMF exposure: Concern for human health. Saudi J Biol Sci. 2015 Jan;22(1):75-84. doi:10.1016/j.sjbs.2014.07.006. ISSN: 1319-562X
55	2014	Reale M , Kamal MA, Patruno A, Costantini E, D'Angelo C, Pesce M, Greig NH. Neuronal cellular responses to extremely low frequency electromagnetic field exposure: implications regarding oxidative stress and neurodegeneration. PLoS One. 2014 Aug 15;9(8):e104973. doi: 10.1371/journal.pone.0104973. ISSN1932-6203
56	2014	Tata AM, Velluto L, D'Angelo C, Reale M . Cholinergic system dysfunction and neurodegenerative diseases: cause or effect? CNS Neurol Disord Drug Targets. 2014;13(7):1294-303. doi: 10.2174/1871527313666140917121132. ISSN 1871-5273
57	2014	Reale M , Di Nicola M, Velluto L, D'Angelo C, Costantini E, Lahiri DK, Kamal MA, Yu QS, Greig NH. Selective acetyl- and butyrylcholinesterase inhibitors reduce amyloid- β ex vivo activation of peripheral chemo-cytokines from Alzheimer's disease subjects: exploring the cholinergic anti-inflammatory pathway. Curr Alzheimer Res. 2014;11(6):608-22. doi: 10.2174/1567205010666131212113218. ISSN1567-2050
58	2014	Aliev G, Shahida K, Gan SH, Firoz C, Khan A, Abuzenadah AM, Kamal W, Kamal MA, Tan Y, Qu X, Reale M . Alzheimer's Disease and Type 2 Diabetes Mellitus: The Link to Tyrosine Hydroxylase and Probable Nutritional Strategies. CNS Neurol Disord Drug Targets. 2014, 13(3):467-77. Review ISSN 1871-5273
59	2013	Pesce M, Patruno A, Speranza L, Reale M . Extremely low frequency electromagnetic field and wound healing: implication of cytokines as biological mediators. Eur Cytokine Netw. 2013 Mar;24(1):1-10. doi: 10.1684/ecn.2013.0332. Review ISSN1952-4005
60	2013	Auriemma M, Vianale G, Amerio P, Reale M . Cytokines and T cells in atopic dermatitis. Eur Cytokine

		Netw. 2013 Mar;24(1):37-44. doi: 10.1684/ecn.2013.0333. Review ISSN1952-4005
61	2012	Reale M , de Angelis F, di Nicola M, Capello E, di Ioia M, Luca Gd, Lugaesi A, Tata AM. Relation between pro-inflammatory cytokines and acetylcholine levels in relapsing-remitting multiple sclerosis patients. <i>Int J Mol Sci</i> . 2012 Oct 3;13(10):12656-64. doi: 10.3390/ijms131012656. ISSN 1422-0067
62	2012	Reale M , Boscolo P, Bellante V, Tarantelli C, Di Nicola M, Forcella L, Li Q, Morimoto K, Muraro R. Daily intake of Lactobacillus casei Shirota increases natural killer cell activity in smokers. <i>Br J Nutr</i> . 2012 Jul;108(2):308-14. doi: 10.1017/S0007114511005630. ISSN 0007-1145
63	2012	Reale M , Pesce M, Priyadarshini M, Kamal MA, Patruno A. Mitochondria as an easy target to oxidative stress events in Parkinson's disease. <i>CNS Neurol Disord Drug Targets</i> . 2012 Jun 1;11(4):430-8. doi: 10.2174/187152712800792875. ISSN 1871-5273
64	2012	Priyadarshini M, Kamal MA, Greig NH, Reale M , Abuzenadah AM, Chaudhary A, Damanhour GA. Alzheimers Disease and Type 2 Diabetes: Exploring the Association to Obesity and Tyrosine Hydroxylase. <i>CNS Neurol Disord Drug Targets</i> . 2012.;11(4):482-9. ISSN 1871-5273
65	2012	Patruno A, Pesce M, Marrone A, Speranza L, Grilli A, De Lutiis MA, Felaco M, Reale M . Activity of matrix metallo proteinases (MMPs) and the tissue inhibitor of MMP (TIMP)-1 in electromagnetic field-exposed THP-1 cells. <i>J Cell Physiol</i> . 2012 Jun;227(6):2767-74. doi: 10.1002/jcp.23024. ISSN 1097-4652
66	2012	Reale M , Kamal MA, Velluto L, Gambi D, Di Nicola M, Greig NH. Relationship between inflammatory mediators, A β levels and ApoE genotype in Alzheimer disease. <i>Curr Alzheimer Res</i> . 2012 May;9(4):447-57. doi: 10.2174/156720512800492549. ISSN1567-2050
67	2011	Patruno A, Tabrez S, Amerio P, Pesce M, Vianale G, Franceschelli S, Grilli A, Kamal MA, Reale M . Kinetic study on the effects of extremely low frequency electromagnetic field on catalase, cytochrome P450 and inducible nitric oxide synthase in human HaCaT and THP-1 cell lines. <i>CNS Neurol Disord Drug Targets</i> . 2011 Dec;10(8):936-44.
68	2011	Reale M , Vianale G, Lotti LV, Mariani-Costantini R, Perconti S, Cristaudo A, Leopold K, Antonucci A, Di Giampaolo L, Iavicoli I, Di Gioacchino M, Boscolo P. Effects of palladium nanoparticles on the cytokine release from peripheral blood mononuclear cells of palladium-sensitized women. <i>J Occup Environ Med</i> . 2011 Sep;53(9):1054-60. Doi: 10.1097/JOM.0b013e318228115e. ISSN 1076-2752
69	2011	Reale M , Patruno A, De Lutiis MA, Pesce M, Felaco M, Di Giannantonio M, Di Nicola M, Grilli A. Dysregulation of chemo-cytokine production in schizophrenic patients versus healthy controls. <i>BMC Neurosci</i> . 2011 Jan 25;12:13. doi: 10.1186/1471-2202-12-13. ISSN1471-2202
70	2011	Al Jafari AA, Shakil S, Reale M , Kamal MA. Human Platelet Acetylcholinesterase Inhibition by Cyclophosphamide: A Combined Experimental and Computational Approach. <i>CNS Neurol Disord Drug Targets</i> . 2011 Dec 1;10(8):936-44. ISSN 1871-5273
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Titoli ¹

DIREZIONE O PARTECIPAZIONE A COMITATI DI DIREZIONE DI RIVISTE
Editor in Chief di *AIMS Allergy and Immunology*. ISSN 2575-615X
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Guest Editor of Special Issue: "Anti-Inflammatory strategy: old ally or new promise in therapy"; in *Anti-Inflammatory & Anti-Allergy Agents in Medicinal Chemistry* (Marcella Reale); "Neuroinflammation, AD, and Dementia"; *International Journal of Alzheimer's Disease* (M. Reale , T. Brenner, N. H. Greig, N.C. Inestrosa, D. Paleacu); "Modulation of Cholinergic System Activity in Neuronal and Non-Neuronal Tissues: Therapeutic Implications"; in *Anti-Inflammatory & Anti-Allergy Agents in Medicinal Chemistry* (M. Reale & A.M. Tata); "Neurodegenerative Disorders: Synthesis, Drug Delivery Strategies and Biological Evaluation of new Therapeutic Agents"; *Cent Nerv Syst Agents Med Chem* (M. Reale & A. Di Stefano); "Immune and Inflammatory-Mediated Disorders: From Bench to Bedside"; *J. Immunology research* (M. Reale, L. Conti, D.

¹ In via esemplificativa sono indicate alcune voci

Velluto); "Non Ionizing Radiations: Biological Effects and Interaction Mechanisms"; *Int. J. Mol. Sci.* (M. Reale, M.R. Scarfi, C. D'Angelo, E. Costantini); "Genetic and Molecular Regulations of Neuronal activity"; *Int. J. Mol. Sci.* (M. Reale, N.H. Greig, C. Borlongan, A.R. Carta); "Emerging Trends in Wound Healing and Repair"; *Biomedicines* (E. Costantini, M. Reale, G. Gualdi, P. Amerio); "Advances in Nutritional Approach to the Neurodegenerative Diseases" (open) *Int. J. Mol. Sci.* (E. Costantini, M. Reale)

PARTECIPAZIONE COME RELATORE A CONVEGNI DI CARATTERE SCIENTIFICO NAZIONALI O INTERNAZIONALI:

Comitato Organizzatore Attività Congressuale: Membro del Comitato Organizzatore della 5th International Conference "Alzheimer's Disease & Dementia". Sept.29-Oct.01, 2016 London, UK; Organizzazione e Responsabile Scientifico "Giornata dall'immunologia: AlimentiAMO il Sistema Immune", 26 Maggio 2023, Chieti

RELATORE A CONGRESSI NAZIONALI E INTERNAZIONALI;

La Sclerosi Multipla: la malattia, l'attualità, la comunicazione. Montesilvano 24 settembre. Evento formativo accreditato (Ord. Medici e Odontoiatri) "La Sclerosi Multipla", San Giovanni Teatino (Ch)

International Yakult Symposium: Probiotics, a proactive approach to health. 23-24 Aprile, Berlin, Germany

1° Convegno Nazionale SINDem-AIMS: Sonno e Declino Cognitivo. Uno stretto rapporto bidirezionale. 26-25 Febbraio. Citta S. Angelo, Italy

4th International conference on Neurology and Neuroimmunology. September 18-19, 2017 Dallas, USA

2nd International Conference on Neuroprotection by Drugs, Nutraceuticals, and Physical Activity. Rimini 6-7 Giugno, 2019

14th World Congress on Controversies in Neurology (CONy) virtual congress 29 Oct-01 Nov 2020

Global Virtual Conference on Neurology and Brain Disorders. 26-27 Giugno,

2nd International Conference on Clinical Immunology and Allergic Diseases" 25 Feb, 2021

3rd Int. Virtual Conference on Neuroscience, Brain Disorders and Therapeutics. 24-25 April 2023

DIREZIONE O PARTECIPAZIONE A GRUPPI DI RICERCA, NAZIONALI O INTERNAZIONALI, LEGATI A UNIVERSITÀ OVVERO A QUALIFICATE ISTITUZIONI PUBBLICHE O PRIVATE:

Studio del ruolo del sistema colinergico neuronale e periferico nelle malattie neurodegenerative e sulla valutazione degli effetti di nuovi farmaci inibitori dei recettori colinergici in collaborazione con il gruppo di ricerca del Prof. Greig. Nigel. Drug Design and Development Section, Translational Gerontology Branch, Intramural Research Program, National Institute on Aging, National Institutes of Health, Baltimore, MD 21224, USA. (Intramural Research Program, National Institute on Aging, NIH (AG000994); National Institute on Aging grants (AG18379 and AG18884).

Studio dei meccanismi infiammatori in modelli cellulari e delle alterazioni di questo processo nelle malattie neurodegenerative e neuropsichiatriche in collaborazione con il gruppo di ricerca del Prof. Hellman-Regen Julian. Department of Psychiatry, Section Clinical Neurobiology, Campus Benjamin Franklin, Charite, University Medicine, Berlin. Germany. (German Federal Ministry of Education and Research (Bundesministerium für Bildung und Forschung, BMBF) Research Grants)

Ruolo della pathway colinergica anti-infiammatoria nelle malattie neurodegenerative in collaborazione con la Prof. ssa Silvia Sánchez-Ramón. Department of Clinical Immunology and IdISSC, Hospital Clínico San Carlos - Department of Immunology, Complutense University School of Medicine, Madrid, Spain.

Analisi dell'espressione di recettori colinergici e delle pathway infiammatorie in modelli murini di malattie neurodegenerative in collaborazione con la Prof.ssa Nieves Salvador. Department of Molecular, Cellular and Developmental Neurobiology, Instituto Cajal-CSIC, Madrid, Spain.

Ruolo dell'infiammazione e stress ossidativo nelle malattie neurodegenerative e invecchiamento. Modelli in vitro e ex-vivo, in collaborazione con il Prof. Mohammad A Kamal. Institutes for Systems Genetics, Frontiers Science Center for Disease-Related Molecular Network, West China Hospital, Sichuan University, Chengdu 610065, China. Department of Pharmacy, Faculty of Allied Health Sciences, Daffodil International University, Dhaka 1341, Enzymoics, 7 Peterlee Place, Hebersham, NSW 2770, Australia. King Fahd Medical Research Center, King Abdulaziz University, Jeddah 21589, Saudi Arabia (King Abdulaziz University (Project ID: HiCi-1434-117-2)

Identification of biomarkers in non-invasive biological fluids in neurodegenerative in collaborazione con il Prof Cesar Borlongan, Department of Neurosurgery and Brain Repair, University of South Florida Morsani College of Medicine in Tampa-Florida (USA).

Attività Colinergica e Infiammatoria nella Brain Fog Syndrome Post Covid-19. L'effetto della Colina Alfoscato in collaborazione con la dr.ssa Guttman Sussanna e dr.ssa Viti Beatrice. UO Neurologia - Ospedale di Stato della Repubblica di San Marino

Coordinamento, dal 1993 al 2007, presso il **Laboratorio di Immunologia** delle attività di ricerca riguardanti la valutazione delle molecole infiammatorie in diffenti patologie e studio della modulazione delle pathway infiammatorie in modelli *in vitro*, oltre che lo studio degli effetti dell'esposizione ai campi elettromagnetici a bassa frequenza sullo stress ossidativo e sul network cito-chemochinico su modelli *in vitro* di riepitelizzazione e guarigione delle ferite

Responsabile, dal 2007 ad oggi, del **Laboratorio di Immunologia cellulare e molecolare** e coordinamento delle attività di ricerca riguardanti l'interazione tra il sistema immune periferico e il sistema colinergico non-neuronale nelle patologie autoimmuni e nelle malattie neurodegenerative; lo studio della modulazione dei processi di migrazione e proliferazione cellulare coinvolti nel processo di riparazione tissutale;. In collaborazione con i colleghi dell' "Università G.d'Annunzio" e aziende del settore coordina lo studio

dell'attività antiinfiammatoria e antiossidante di probiotici, sostanze naturali, pro-farmaci e, utilizzando modelli cellulari preclinici, la identificazione di bersagli molecolari e sviluppo di nuovi trattamenti preventivi o terapeutici "add-on".

Coordinamento del gruppo di ricerca per lo **"studio della pathway colinergica anti.infiammatoria nella Sclerosi Multipla"** in collaborazione con la Prof. **Ada Maria Tata**, Dipartimento di Biologia e Biotecnologie Charles Darwin, Università "la Sapienza" Roma. I risultati ottenuti sono stati oggetto di pubblicazioni su riviste internazionali peer-reviewed e presentazioni a conferenze e congressi nazionali e internazionali. Collaborazione con dr.ssa Maria Rosaria Scarfi e la dr.ssa Olga Zeni per lo studio **dell'interazione tra Campi Elettromagnetici e Biosistemi** mediante l'afferenza della sottoscritta all' ICEmB-Unità di Ricerca CNR-IREA, Napoli, laboratorio di Bioelettromagnetismo, diretta dalla dr.ssa Maria Rosaria Scarfi.

Responsabile dei progetti Finanziati con Fondi di Ateneo per la Ricerca assegnati sulla base di un bando competitivo, secondo criteri elaborati da una commissione del Senato Accademico costituita *ad hoc*:

Espressione e produzione di beta-chemiochine e recettori specifici nei PBMC di pazienti affetti da Sclerosi Multipla.

Chemiochine e migrazione delle cellule T nella Sclerosi Multipla: ruolo dei recettori CCR5, CCR3, CCR4 e delle citochine rilasciate dai linfociti Th1 e Th2.

Studio dei meccanismi infiammatori nella patogenesi della malattia di Alzheimer: marcatori periferici.

Meccanismi Molecolari di Danno Ossidativo nelle Malattie Neurodegenerative.

Squilibrio ossidativo in pazienti con malattia d'Alzheimer: segnali per l'induzione dell' ossido nitrico sintetasi

Valutazione di IL-18, IL-18BP, ICAM-1 e ApoE come fattori predittivi e biomarcatori dello stadio precoce (early-AD) o tardivo (late-AD) della malattia di Alzheimer.

Sistema colinergico non neuronale nelle malattie neurodegenerative: possibile ruolo come modulatore della risposta immunitaria.

Systemic low-grade inflammation and non-neuronal cholinergic anti-inflammatory system.

Role of non-neuronal cholinergic anti-inflammatory system in autoimmune diseases.

Autoimmune diseases and non-neuronal cholinergic anti-inflammatory system.

Role of non-neuronal cholinergic anti-inflammatory system in neurodegenerative diseases.

Cholinergic system and Cytokines expression in brain and spleen of mouse model of accelerated senescence and Alzheimer's disease.

Evaluation of Brain-Spleen link in a mouse model of accelerated senescence.

Evaluation of cholinergic pathway in brain and spleen of senescence-accelerated mice.

Aging triggers a dysregulation of cytokines and cholinergic system in mice brain and splenocytes.

ATTIVITA' DI REVISORE PER PROGETTI DI RICERCA NAZIONALI ED INTERNAZIONALI

Revisore per VQR 2004-2010; 2011-214

Revisore per Excellence Programme Revisore Chairs of Edition: Agence Nationale de la Recherche, Paris, Francia;

Valutazione Assegni di Ricerca Senior (LS-6)-Università dell'Insubria; Università del Piemonte Orientale e di Verona.

Revisore della Ricerca in Reprise-Register Of Expert Peer Reviewers For Italian Scientific Evaluation. Area di Ricerca di base Settore ERC: LS6_3 (Regolazione e funzioni effettrici della risposta immunitaria) e (LS1_9) processi molecolari dei processi di segnalazione

AFFILIAZIONI A SOCIETÀ SCIENTIFICHE

Società Italiana di Patologia e Medicina Traslazionale (SIPMET);

Società Italiana di Neuroimmunologia (AINI);

Associazione Italiana Colture Cellulari (AICC);

Società Italiana di Immunologia, Immunologia Clinica e Allergologia (SIICA);

International Union of Immunology Societies (IUIS)

data

20.10.2023

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