**Curriculum Vitae,**

**Attivita' Scientifica, Attivita' Didattica e Elenco delle pubblicazioni,**

**del Prof. Maurizio Paci**

**Prof. ordinario di Biochimca per il Corso di laurea in Chimica**

 **Docente di Chimica degli alimenti dell’ ‘ Universita’ di Roma Tor Vergata**

**Gia’ Preside della Facolta' di Scienze Mat. Fis. Nat. della Universita' di Roma Tor Vergata**

**CURRICULUM VITAE**

* Il Dr. Maurizio Paci e' nato a Spoleto (Pg) il 26 Settembre 1945. Ha conseguito la Laurea in Chimica il 25 luglio 1970 presso la Facolta' di Scienze Mat.Fis.Nat. dell'Universita' di Roma. Dal 1 Agosto 1973 al 31 Marzo 1975, in seguito a concorso, ha svolto la propria attivita' di ricerca come Aspirante Ricercatore, e, dal 1 Agosto 1974 come Ricercatore Aggiunto, presso il Laboratorio di Metodologie Avanzate Inorganiche del Consiglio Nazionale delle Ricerche. Dal Novembre 1981 e' inquadrato come Assistente Ordinario presso la Cattedra di Spettroscopia a Radiofrequenza della Facolta' di Scienze Mat.Fis.Nat. dell'Universita' di Roma "Tor Vergata". Nel Giugno 1986 ha preso servizio come Professore Associato presso la Facolta' di Scienze Mat.Fis.Nat. della Universita' di Roma "Tor Vergata" per il corso di Spettroscopia Molecolare per il Corso di Laurea in Biologia. Ha fatto parte per due mandati di tre anni del Consiglio di Aministrazione dell’‘ Ateneo come rappresentante eletto dei Professori Asssociati.
* Dal 1 Novembre 1994 quale vincitore di concorso ha preso servizio come professore straordinario di Biochimica del Corso di Laurea in Biologia presso la Facolta' di Scienze Mat. Fis. Nat. della Universita' di Cagliari.
* Dal 1 Nov. 1995 ha preso servizio come prof. straordinario presso la Facolta' di Scienze Mat. Fis. Nat. della Universita' di Roma Tor vergata per il corso di Chimica Biologica II per il corso di laurea in Chimica. Attualmente ha come carico didattico aggiuntivo il corso complementare di Biochimica degli alimenti per il corso di laurea in Chimica e di Chimica Generale ed Inorganica per il corso di laurea in scienze biologiche presso la stessa facolta'. Dal 2001 e docente del corso di Chimica degli alimenti per il corso di Laurea in Scienza della nutrizione umana dell ‘ Universita’ di Roma Tor Vergata.
* Il Prof. M.Paci e’ stato componente della Commissione Metodi Analitici di Oli e grassi e della Commissione Metodi Analitici sul Vino del MIPAF.
* Dal Giugno 2004 al Dicembre 2007 ha svolto il ruolo di Presidente del Consiglio Nazionali dei Periti Doganali del Ministero delle Finanze.
* Ha svolto diverse volte la funzione di Esperto per diverse attivita’ del Ministero delle Attivita’ Produttive per la valutazione di progetti di ricerca industriale e sviluppo industriale.
* Svolge le funzione di Peer Reviewer di numerose riviste internazionali e di esperto revisore per i progetti di Ricerca MUR e per il Comitato di Valutazione delle Universita’ e Enti di Ricerca, CIVR, ANVUR ed European Research Council.
* Dal 2002 per incarico del Rettore e’ vice presidente del Colosseum Combinatorial Chemistry Center for Technology ( C4T), Consorzio pubblico privato per la ricerca farmaceutica.
* E’ stato eletto Preside della Facolta’ di Scienze Mat. Fis. Nat. della Universita’ di Roma Tor Vergata nel triennio 2008-2011 e proroga per l ‘ AA 2011-12 in base alla legge 240.
* Nel Settembre 2012 e’ stato insignito del Gold Medal Award 2012 per le Risonanze Magnetiche dalla Societa’ Italiana di Risonanze Magnetiche GIDRM-GIRM nel Convegno annuale tenutosi a Pisa.
* Il Prof. M. Paci e’ autore e coautore di oltre 200 pubblicazioni scientifiche edite su riviste internazionali con referee nel settore della Chimica , Biochimica e Biologia strutturale e di oltre 12 pubblicazioni di tipo divulgativo su riviste e case editrice ad ampia diffusione.
* E’ stato relatore di numerose Tesi VO e di Laurea Magistrale in Chimica, Biologia, Scienza della nutrizione umana e numerose tesi di dottorato sia in Chimica sia in Biochimica e biologia molecolare.
* Dal 1 Novembre 2015 e’ in pensione . Mantiene a contratto la cattedra di Chimica degli Alimenti per il corso di Laurea in Chimica e del modulo Food Chemistry per il corso di Laurea in Pharmacy.

**ATTIVITA' SCIENTIFICA**

Linee generali

L'attivita' di ricerca scientifica del prof. M.Paci e' stata rivolta prevalentemente alla determinazione delle proprieta' strutturali e conformazionali di molecole con prevalenza di quelle di notevoli dimensioni sia di natura sintetica sia di provenienza ed interesse biologico. La tecnica principalmente utilizzata per lo svolgimento di tale attivita' di ricerca e' stata la spettroscopia di Risonanza Magnetica Nucleare (NMR), sia ad alta che a bassa risoluzione. Sono stati seguiti con particolare attenzione tutti gli aspetti piu' interessanti dei notevoli e rapidi sviluppi di tale tecnica che sono stati applicati via via a problematiche scientifiche diverse su cui era in grado di fornire risposte sperimentali attendibili. L'attivita' scientifica nel campo delle risonanze magnetiche nucleari si e' articolata in due filoni principali riguardanti: a) Sistemi biologici, composti modello e studi strutturali e conformazionali di molecole di interesse biologico.Tali studi sono stati estesi anche a sistemi cellulari. b) Analisi strutturali e conformazionali di macromolecole, polimeri e copolimeri sintetici nonche' di composti metallorganici e di coordinazione sia in soluzione che allo stato solido. Una parte di questa attivita’ e’ stata dedicata allo studio strutturale e funzionale di sostanze naturali e a farmaci sintetici. Lo studio e' stato eseguito mediante le recenti tecniche di spettroscopia NMR ad alta risoluzione in soluzione e , in alcuni casi, con spettroscopia NMR per solidi con la rotazione all'angolo magico. I temi di ricerca principali si possono riassumere nei seguenti filoni: Sistemi biologici, composti modello: studi strutturali e conformazionali di molecole di interesse biologico. Studi dei fattori di inizio della sintesi proteica di E.Coli Studio delle proteine "istone-simili" di E.Coli Studi NMR di fitotossine vegetali Struttura e funzione di metalloproteine: l'enzima superossidodismutasi Studi NMR di preparati cellulari Studi NMR di peptidi sintetici di interesse farmacologico Studi NMR di Acidi Nucleici Studi di farmaci Analisi strutturali e conformazionali di macromolecole, polimeri e copolimeri sintetici, composti metallorganici e di coordinazione in soluzione ed allo stato solido Studi di NMR pulsato a bassa risoluzione Studi NMR ad alta risoluzione di miscele solide di polimeri Studi NMR di composti metallo organici e di coordinazione Il Prof. M. Paci e’ autore e coautore di quasi 250 pubblicazioni scientifiche edite su riviste internazionali con referee nel settore della Chimica strutturale, Biochimica e Biologia strutturale e di oltre 12 pubblicazioni di tipo divulgativo su riviste e case editrice ad ampia diffusione.

**Elenco delle Pubblicazioni**

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5. L.Acquaviva, F.Conti, M.Paci, M.Delfini, A.L.Segre, E.Benedetti, E.Chiellini, E.Ciardelli C-13 NMR study of optically active polymers: Relaxation in Poly-4-methyl-1-hexene. Proceedings of European Conference on Macromolecules, F.Conti Ed., Lerici, Roma, (1978)

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9. E.Brosio, F.Conti, M.Paci, S.SykoraEtude en NMR par l'impulsion a basse resolution de force de liaison de l'eau et des atomes d'hydrogene echangeable dans les solides.Technique des Industries cerealieres 169, (1979), 17

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