



**UNIVERSITÀ degli STUDI “MAGNA GRAECIA”  
di CATANZARO**  
DIPARTIMENTO DI SCIENZE MEDICHE E CHIRURGICHE

**Relazione sull'attività di Ricerca del Dipartimento di Scienze Mediche e Chirurgiche Anno 2017**

Il Dipartimento di Scienze Mediche e Chirurgiche include diversi settori e discipline le cui attività di ricerca sono spesso intersecate e multidisciplinari in quanto incentrate su linee di ricerca comuni.

Di seguito si riportano le linee di ricerca seguite dai vari settori scientifici nell'ambito del Dipartimento nell'anno 2017.

Il gruppo di Pediatria, in collaborazione con altre discipline afferenti al Dipartimento, quali la Medicina Interna, l'Informatica Biomedica, nonché con altri centri di ricerca nazionali, ha prodotto 10 pubblicazioni in extenso su riviste nazionali ed internazionali sottoposte a peer-review. Le linee elettive di ricerca vertono essenzialmente sulle seguenti tematiche: 1. Disordini funzionali gastrointestinali, stipsi cronica refrattaria, reflusso gastroesofageo, malattie infiammatorie croniche intestinali, studio dell'approccio manometrico ai problemi di dismotilità gastrointestinale cronica, studio delle caratteristiche biologiche della malattia celiaca, Individuazione di varianti genotipiche associate a fenotipi clinici diversi e differente risposta farmacologica in varie patologie (es. malattia di Fabry), Asma, Dermatite atopica. 2. Messa a punto e validazione di metodiche di screening neonatale per le MPS, screening di malattie accumulo lisosomiale su popolazioni a rischio, ricerca di polimorfismi associati alla variabilità clinica della malattia di Fabry, efficacia di molecole chaperoniche nella terapia di malattie da accumulo lisosomiale, utilità e limiti del aGCH nella diagnostica sindromologica, identificazione di nuovi fenotipi di malattie da micro dup/del cromosomiche, nuovi approcci terapeutici nella pku, descrizione di malattie sindromiche rare, messa a punto di PDTA per malattie rare. (Pubblic. 1-10)

Il gruppo di Anestesia e Rianimazione, in collaborazione con la Pneumologia e con diversi centri di ricerca esteri, ha prodotto 17 articoli in extenso su riviste internazionali sottoposte a peer-review. Gli studi pubblicati hanno esplorato prevalentemente le seguenti linee di ricerca: 1. Effetti delle immunoglobuline policlonali nel trattamento delle polmoniti complicate. 2. Metodiche di ventilazione in diverse condizioni cliniche del paziente di area critica: ipercapnia, insufficienza respiratoria acuta, danno cerebrale. 3. Linee guida internazionali della gestione della sepsi e dello shock settico. 4. Infiammazione e progressione della patologia tumorale. (Pubblic. 11-27)

Il gruppo di Nefrologia, in collaborazione con l'Informatica Biomedica, nonché con altri centri di ricerca nazionali, ha prodotto 6 pubblicazioni in extenso su riviste internazionali sottoposte a peer-review. Le linee elettive di ricerca vertono essenzialmente sulle seguenti tematiche: 1. Tecniche farmacologiche e dietetiche di rallentamento della progressione della malattia renale cronica. 2. Terapia e follow-up del monorene congenito ed acquisito. 3. Valutazione della qualità della vita del paziente nefropatico in emodialisi e strategie per il suo miglioramento. (Pubblic. 28-33)

Il gruppo di Fisiologia, in collaborazione con la Neurologia ed altri centri di ricerca nazionali ed internazionali, ha prodotto 5 pubblicazioni in extenso su riviste internazionali sottoposte a peer-review, prevalentemente in merito alle seguenti linee di ricerca: 1. Meccanismi neurali del processamento linguistico, delle azioni e degli oggetti, in particolare il ruolo dei sistemi sensorimotori nella semantica dell'azione e del linguaggio. 2. Modelli traslazionali in neuroriabilitazione. (Pubblic. 34-38)

Il gruppo di Neuropsichiatria Infantile, in collaborazione con altri centri di ricerca nazionali, ha prodotto 15 pubblicazioni in extenso su riviste nazionali ed internazionali sottoposte a peer-review. (Pubblic. 39-53)

Il gruppo di Neurologia, in collaborazione con i gruppi di Fisiologia e di Neuroradiologia e con altri centri di ricerca nazionali ed esteri, ha prodotto 50 pubblicazioni in extenso su riviste nazionali ed internazionali sottoposte a peer-review, relativamente alle seguenti aree di ricerca: 1. Biomarcatori neuropsicologici, genetici, neurofisiologici e neuroimaging nei disordini del movimento. 2. Biomarcatori neuropsicologici, genetici, neurofisiologici e neuroimaging nelle epilessie. 3. Management della sclerosi multipla. (Pubblic. 54-103)

Il gruppo di Neuroradiologia, in collaborazione con il gruppo di Neurologia e con altri centri di ricerca nazionali, ha prodotto 7 pubblicazioni in extenso su riviste nazionali ed internazionali sottoposte a peer-review. (Pubblic. 104-110)

Il gruppo di Pneumologia, in collaborazione con il gruppo di Anestesia e Rianimazione e con altri centri di ricerca nazionali, ha prodotto 6 pubblicazioni in extenso su riviste nazionali ed estere sottoposte a peer-review, in merito alle seguenti linee di ricerca: 1. Valutazione degli effetti clinici, funzionali e biologici degli anticorpi monoclonali anti-IgE, anti-IL-5 ed anti-recettore della IL-5, impiegati nella terapia dell'asma grave. 2. Studio dei meccanismi di trasduzione del segnale e della loro modulazione farmacologica, con particolare riferimento all'attivazione ed all'inibizione delle MAP chinasi, implicati nelle alterazioni bronco-polmonari di tipo flogistico e strutturale che si verificano nelle malattie respiratorie croniche ostruttive (asma e BPCO). 3. Analisi dei profili peptidomici espressi nell'espettorato indotto e/o nel fluido nasale di pazienti affetti da BPCO, o da asma associato a rinite allergica o non allergica. (Pubblic. 111-116)



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Il gruppo di Medicina Interna ha prodotto 40 pubblicazioni in estenso su riviste nazionali ed internazionali sottoposte a peer-review. Le principali linee di ricerca del gruppo sono: 1. Studio dei meccanismi molecolari dell'azione insulinica e della funzione della beta cellula pancreatica. 2. Studio della fisiopatologia e della genetica (caratterizzazione genotipo/fenotipo) del diabete tipo 2 e dell'obesità. 3. Ruolo dell'IGF-1 nella patologia cardiovascolare e metabolica. 4. Aspetti clinici, genetici e molecolari della disfunzione endoteliale e della patologia cardiovascolare. 5. Caratterizzazione genotipica e fenotipica del paziente iperteso e del danno d'organo subclinico. 6. Supporto tecnologico per la gestione delle Malattie Cardiovascolari, in particolare dello scompenso cardiaco cronico (telemedicina, sistemi di supporto alle decisioni cliniche, regole ontologiche, analisi dei segnali ECG e delle acquisizioni ecocardiografiche) e sviluppo di algoritmi computerizzati per la diagnosi precoce di decompensazione. 7. Sviluppo di modelli predittivi sul rischio di sviluppo di fibrillazione atriale in soggetti con fattori di rischio cardiovascolare. (Pubblic. 117-156)

Il gruppo di Cardiologia, in collaborazione con altri gruppi di ricerca afferenti al Dipartimento e con centri nazionali ed esteri, ha prodotto 25 pubblicazioni in estenso su riviste nazionali ed internazionali sottoposte a peer-review. (Pubblic. 157-181)

Il gruppo di Malattie Infettive, in collaborazione con altri centri di ricerca nazionali ed internazionali, ha prodotto 17 pubblicazioni in estenso su riviste nazionali ed internazionali sottoposte a peer-review. (Pubblic. 182-198)

Il gruppo di Ortopedia e Traumatologia, in collaborazione con altri gruppi di ricerca nazionali ed internazionali, ha prodotto 11 pubblicazioni in estenso su riviste nazionali ed internazionali sottoposte a peer-review. (Pubblic. 199-209)

Il gruppo di Chirurgia Vascolare, in collaborazione con altri gruppi di ricerca afferenti al Dipartimento e a centri di ricerca nazionali ed internazionali, ha prodotto 24 pubblicazioni in estenso sottoposte a peer-review su riviste nazionali ed internazionali. (Pubblic. 210-233)

Il gruppo di Chirurgia Generale, in collaborazione con altri gruppi di ricerca afferenti al Dipartimento, ha prodotto 12 pubblicazioni in estenso sottoposte a peer-review su riviste nazionali ed internazionali. (Pubblic. 243-245)

Il gruppo di Pedagogia Generale e Sociali ha prodotto 4 lavori, pubblicati su riviste nazionali. (Pubblic. 246-249)

Il gruppo di Neurochirurgia, in collaborazione con altri gruppi di ricerca nazionali ed internazionali, ha prodotto 30 pubblicazioni in estenso sottoposte a peer-review su riviste nazionali ed internazionali, relativamente alle seguenti linee di ricerca: 1. Brain Neuromodulation for treatment of Movement Disorders and Pain. 2. Cost-Effectiveness and Cost-Utility of Spinal Cord Stimulation in patients with Failed Back Surgery Syndrome. 3. Non-invasive real-time biopsy of intracranial lesions using short time expanded circulating tumor cells. (Pubblic. 250-279)

Il gruppo di Informatica, in collaborazione con altri gruppi di ricerca afferenti al Dipartimento e con centri di ricerca nazionali ed internazionali, ha prodotto 37 pubblicazioni in estenso sottoposte a peer-review su riviste nazionali ed internazionali e conference paper. (Pubblic. 280-316)

Il gruppo di Medicina Fisica e Riabilitativa, in collaborazione con altri centri di ricerca nazionali, ha prodotto 17 pubblicazioni in estenso, sottoposte a peer-review su riviste nazionali, relativamente ai seguenti interessi di ricerca: 1. Organizzazione ed efficacia della realizzazione di percorsi riabilitativi nel trattamento di persone con disabilità da Malattia di Parkinson. 2. Studio dell'efficacia antispastica ed antidolorifica della TBA. 3. Diagnosi precoce dei disturbi cognitivi nell'ictus. 4. Utilizzo dell'analisi cinematica. 5. Neuroalгодistrofia riflessa. 6. Trattamento del linfedema. 7. Uso di mezzi fisici nel trattamento della spasticità. 8. Prevenzione delle cadute. (Pubblic. 317-333)

Il gruppo di Nutrizione Clinica ha presentato nuove pubblicazioni (333-342)

Qui di seguito si riportano in elenco le pubblicazioni prodotte dal Dipartimento di Scienze Mediche e Chirurgiche nel 2017:

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3. Cocozza S, Russo C, Pisani A, Olivo G, Riccio E, Cervo A, Pontillo G, Feriozzi S, Veroux M, Battaglia Y, Concolino D, Pieruzzi F, Mignani R, Borrelli P, Imbriaco M, Brunetti A, Tedeschi E, Palma G.



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  7. Pisani A, Petruzzelli Annicchiarico L, Pellegrino A, Bruzzese D, Feriozzi S, Imbriaco M, Tedeschi E, Cocozza S, De Rosa D, Mignani R, Veroux M, Battaglia Y, Concolino D, Sestito S, Pieruzzi F, Caroti L, Manna R, Zizzo C, Santangelo M, Sabbatini M, Riccio E. Parapelvic cysts, a distinguishing feature of renal Fabry disease. *Nephrol Dial Transplant.* 2017 Mar 28. doi: 10.1093/ndt/gfx009. [Epub ahead of print]
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*Prof. Giorgio Fulano*