

ISTITUTO SUPERIORE DI SANITÀ

**Pubblicazioni su riviste a diffusione internazionale
prodotte dal Laboratorio di Ultrastrutture
dell'Istituto Superiore di Sanità
nel decennio 1991-2000**

Strumenti di riferimento

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Istituto Superiore di Sanità

Pubblicazioni su riviste a diffusione internazionale prodotte dal Laboratorio di Ultrastrutture dell'Istituto Superiore di Sanità nel decennio 1991-2000.

2001, iv, 107 p. (Strumenti di riferimento; 17)

Vengono riportate le citazioni bibliografiche relative alle pubblicazioni su riviste a diffusione internazionale prodotte dal personale del Laboratorio di Ultrastrutture dell'Istituto Superiore di Sanità dal 1991 al 2000. Dal 1993 per ogni pubblicazione viene riportato l'impact factor, se presente. Il volume contiene anche l'indice degli autori.

Parole chiave: Patologia ultrastrutturale, Bibliografie, Salute pubblica

Istituto Superiore di Sanità

Publications on international journals produced by the Laboratory of Ultrastructures of the Istituto Superiore di Sanità from 1991 to 2000.

2001, iv, 107 p. (Strumenti di riferimento; 17) (in Italian)

The list of bibliography produced by the Department of Ultrastructures of the Istituto Superiore di Sanità from 1991 to 2000 is presented. Since 1993 the impact factor is reported for each publication, if given. The list is chronologically and alphabetically ordered. The author index is also included.

Key words: Ultrastructural pathology, Bibliographies, Public health

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PRESENTAZIONE

Da alcuni decenni l'indagine ultrastrutturale sta fornendo notevoli contributi in molti settori della ricerca scientifica e tecnologica, in particolare alla ricerca biomedica finalizzata alla salute dell'uomo, e ha quindi assunto un riconosciuto e consolidato ruolo in questo campo.

Questa realtà è ben presente nell'Istituto Superiore di Sanità sia per la nota tradizione storica della microscopia elettronica in Italia, nata e sviluppata proprio nel nostro Istituto, sia per il contributo fornito nell'ultimo decennio dal Laboratorio di Ultrastrutture in molte attività istituzionali finalizzate alla tutela della salute pubblica.

Al Laboratorio di Ultrastrutture, costituito nel 1982, in base al DM n. 528 del 21 novembre 1987 concernente la "Riformulazione del regolamento interno per l'organizzazione ed il funzionamento dell'Istituto Superiore di Sanità", sono assegnate le seguenti attribuzioni:

- Analisi di strutture biologiche in condizioni normali e patologiche.
- Ricerche ultrastrutturali applicate allo studio di microrganismi patogeni e dei processi infettivi da essi sostenuti.
- Studio a livello cellulare e tissutale di alterazioni strutturali e funzionali indotte da agenti chimici, fisici e biologici e/o conseguenti a processi patologici.
- Studio di inquinanti ambientali di particolare rilevanza sanitaria e delle loro modalità di interazione con le strutture biologiche.
- Studio delle interazioni di sistemi biologici con biomateriali.
- Elaborazione e sviluppo di nuove metodologie per l'analisi strutturale e la diagnostica rapida di laboratorio.

Il Laboratorio è articolato nei seguenti reparti:

- | | |
|--|----------------------------------|
| – Citopatologia | (Direttore Salvatore Caiazza) |
| – Istopatologia | (Direttore Domenica Taruscio) |
| – Patologia infettiva ultrastrutturale | (Direttore Fabiana E.D. Superti) |
| – Patologia subcellulare | (Direttore Walter Malorni) |
| – Ultrastrutture degli inquinanti ambientali | (Direttore Luigi Paoletti) |

Nonostante l'esiguità dell'organico (attualmente costituito da 36 unità di personale di ruolo), negli ultimi anni il Laboratorio di Ultrastrutture ha consolidato la definizione della propria attività istituzionale nel settore della Patologia ultrastrutturale. Tale attività trova piena corrispondenza agli obiettivi del Piano Sanitario Nazionale e cerca di soddisfare al meglio le numerose richieste di collaborazione da parte di altri laboratori dell'Istituto.

Oltre ad un'intensa e crescente attività cosiddetta strumentale, rilevabile dalle relazioni annuali, il Laboratorio svolge una qualificata attività di ricerca in molti settori di intervento sanitario dell'Istituto.

Data la natura necessariamente multidisciplinare del Laboratorio e poiché l'indagine ultrastrutturale può fornire un notevole contributo in numerosi settori della ricerca

biomedica, l'attività scientifica del Laboratorio di Ultrastrutture si articola nell'ambito di diverse aree tematiche, pur non perdendo la propria specificità.

Essendo in corso un processo di ridefinizione delle funzioni dell'Istituto, che probabilmente porterà anche ad un riordino dell'organizzazione delle sue strutture, si è ritenuto opportuno elaborare questo rapporto che offre un quadro delle attività di ricerca svolte dal Laboratorio di Ultrastrutture nell'ultimo decennio, molte delle quali in collaborazione con altri gruppi appartenenti a diversi laboratori dell'Istituto.

Questo rapporto riporta esclusivamente le pubblicazioni scientifiche su riviste a diffusione internazionale. Per semplificarne la consultazione sono state omesse le numerose pubblicazioni su riviste nazionali, pur se talvolta di buon livello scientifico, e le innumerevoli comunicazioni a congresso. Le pubblicazioni sono ordinate per anno (dal 1991 al 2000) e in ordine alfabetico all'interno di ogni anno.

Gli elenchi annuali sono intercalati da micrografie ottenute con diverse tecniche microscopiche nel corso delle ricerche svolte nell'ultimo decennio.

Ci si augura che questo rapporto possa costituire un utile strumento per l'ottimale definizione del ruolo dell'attuale Laboratorio di Ultrastrutture nell'ambito del riordino strutturale e funzionale dell'Istituto Superiore di Sanità.

Giuseppe Arancia
Direttore del Laboratorio

INTRODUZIONE

In questo rapporto vengono riportate le pubblicazioni scientifiche su riviste o volumi a diffusione internazionale prodotte dal personale del Laboratorio di Ultrastrutture nel decennio 1991-2000.

Le pubblicazioni sono suddivise per anno e, all'interno di ogni anno, sono numerate progressivamente seguendo l'ordine alfabetico del primo autore.

A partire dal 1993, per ogni pubblicazione viene riportato l'impact factor (IF). Come è noto, l'impact factor è un indicatore bibliografico elaborato dall'Institute of Scientific Information (ISI) che rappresenta un parametro quantitativo, largamente accettato dalla comunità scientifica internazionale, della qualità di una rivista e dei lavori in essa pubblicati. Poiché tale indicatore è disponibile dal 1996, i valori riportati per gli anni 1993, 1994 e 1995 sono in realtà quelli relativi all'anno 1996. Non si è ritenuto opportuno eseguire tale estrapolazione anche per gli anni 1991 e 1992 perché troppo lontani nel tempo.

Per quei lavori pubblicati su riviste non comprese nell'elenco dell'ISI, pur se a diffusione internazionale, e per le monografie è stata riportata l'abbreviazione nd (non determinato).

La Tabella 1 mostra un riepilogo della produttività scientifica del Laboratorio di Ultrastrutture nell'ultimo decennio in termini quantitativi (numero di pubblicazioni internazionali di ogni anno) e qualitativi (impact factor totale di ogni anno).

Tabella 1. Numero di pubblicazioni e impact factor totale (1991-2000)

Anni	Numero delle pubblicazioni	Impact factor totale
1991	41	-
1992	24	-
1993	38	73.682
1994	46	87.547
1995	51	99.250
1996	35	68.888
1997	39	129.020
1998	49	118.839
1999	43	108.283
2000	46	166.442

La Figura 1 mostra l'andamento in forma grafica degli stessi parametri raggruppati per biennio.

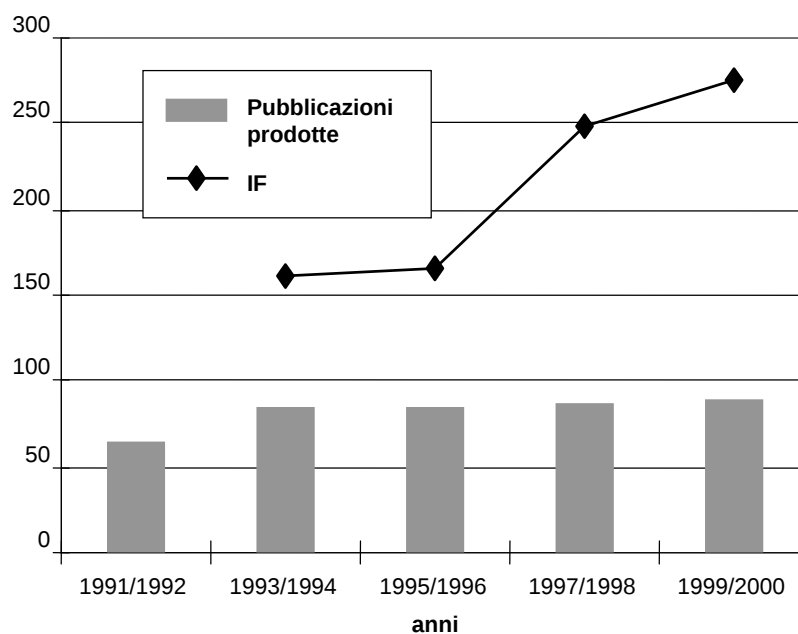


Figura 1. Pubblicazioni scientifiche su riviste o volumi a diffusione internazionale

Si può notare come il numero totale delle pubblicazioni non sia sostanzialmente cambiato nel corso del decennio, mentre vi è stato un significativo incremento del livello qualitativo, soprattutto negli ultimi anni, in termini di impact factor.

PUBBLICAZIONI 1991



**Modificazioni ultrastrutturali della membrana plasmatica
dell'eritrocita umano indotte dal farmaco antitumorale doxorubicina,
rvelate mediante la tecnica del "freeze-fracturing"**

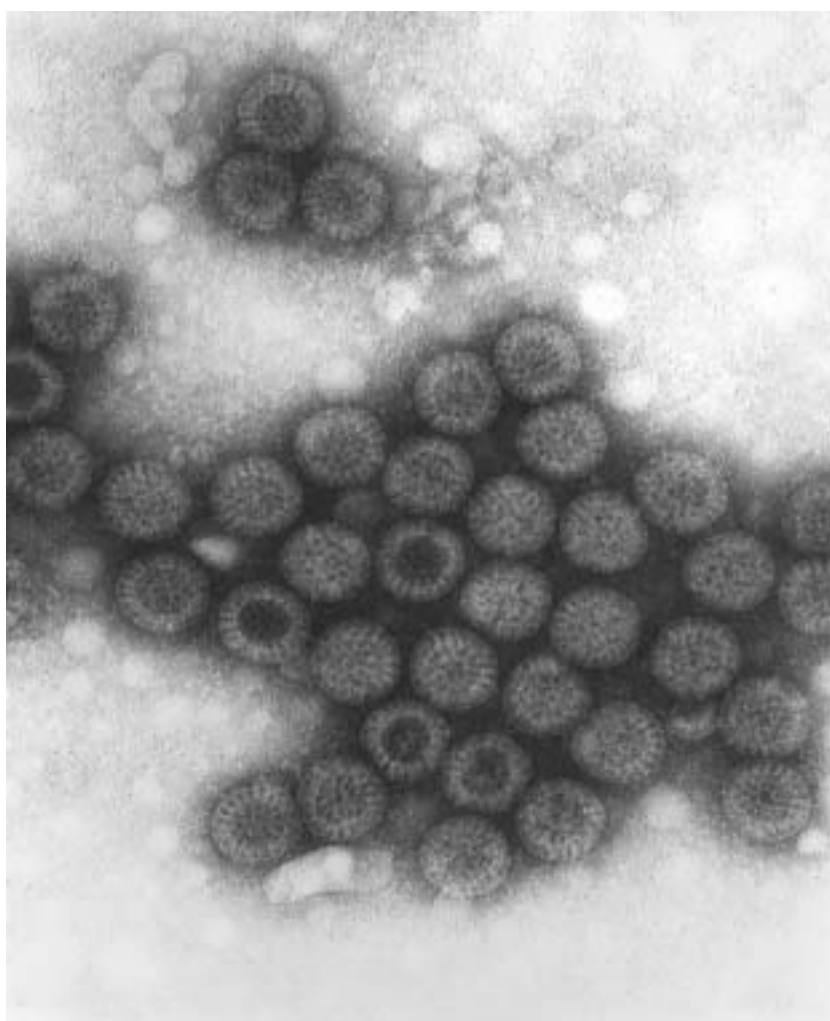
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PUBBLICAZIONI 1992



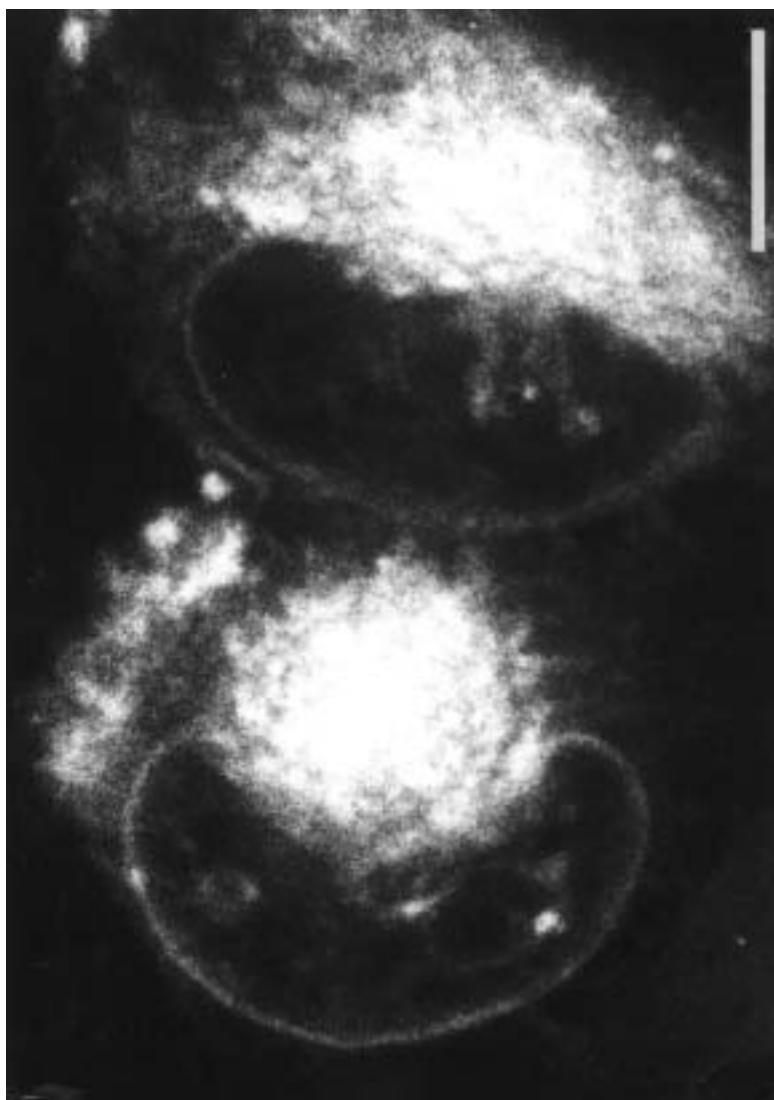
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mediante la tecnica del “contrasto negativo”**

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PUBBLICAZIONI 1993



**Distribuzione intracellulare della doxorubicina in cellule
in coltura di melanoma umano. Le osservazioni in microscopia confocale
a scansione laser hanno permesso di dimostrare la localizzazione
preferenziale del farmaco antitumorale nell'apparato del Golgi**

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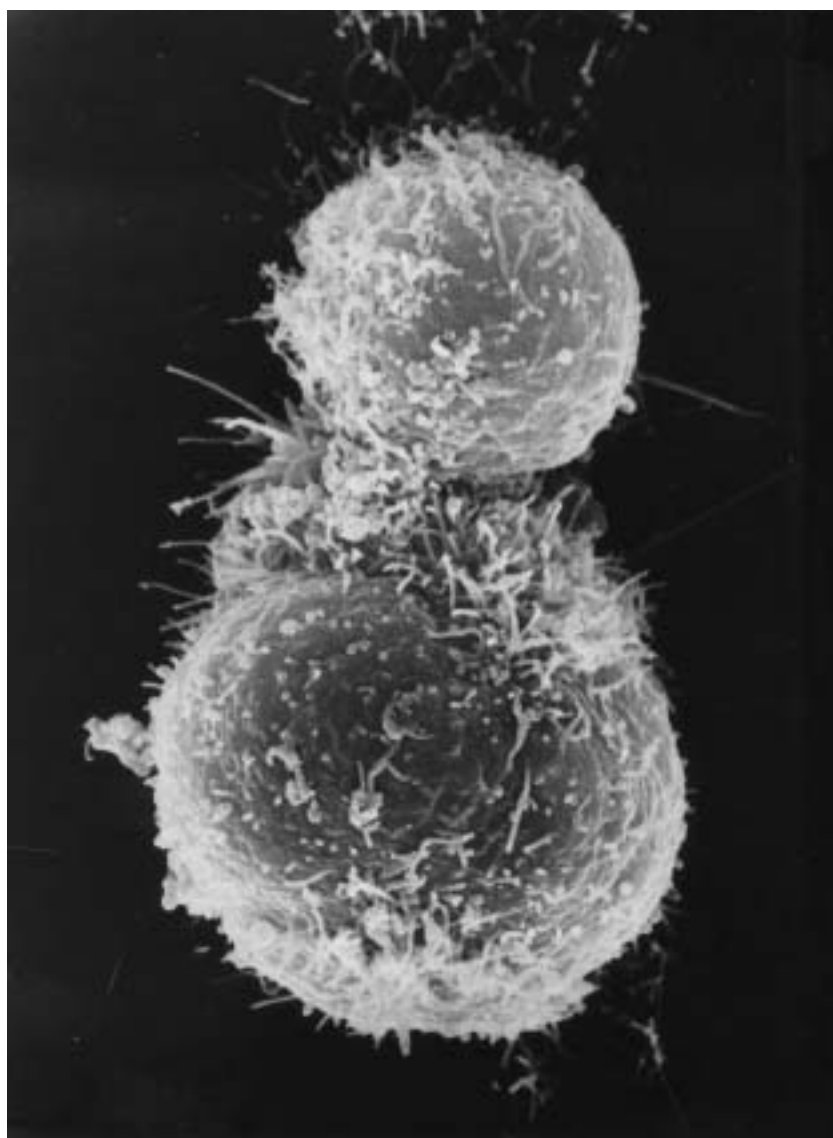
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PUBBLICAZIONI 1994



**Interazione tra linfocita “natural killer” e cellula tumorale
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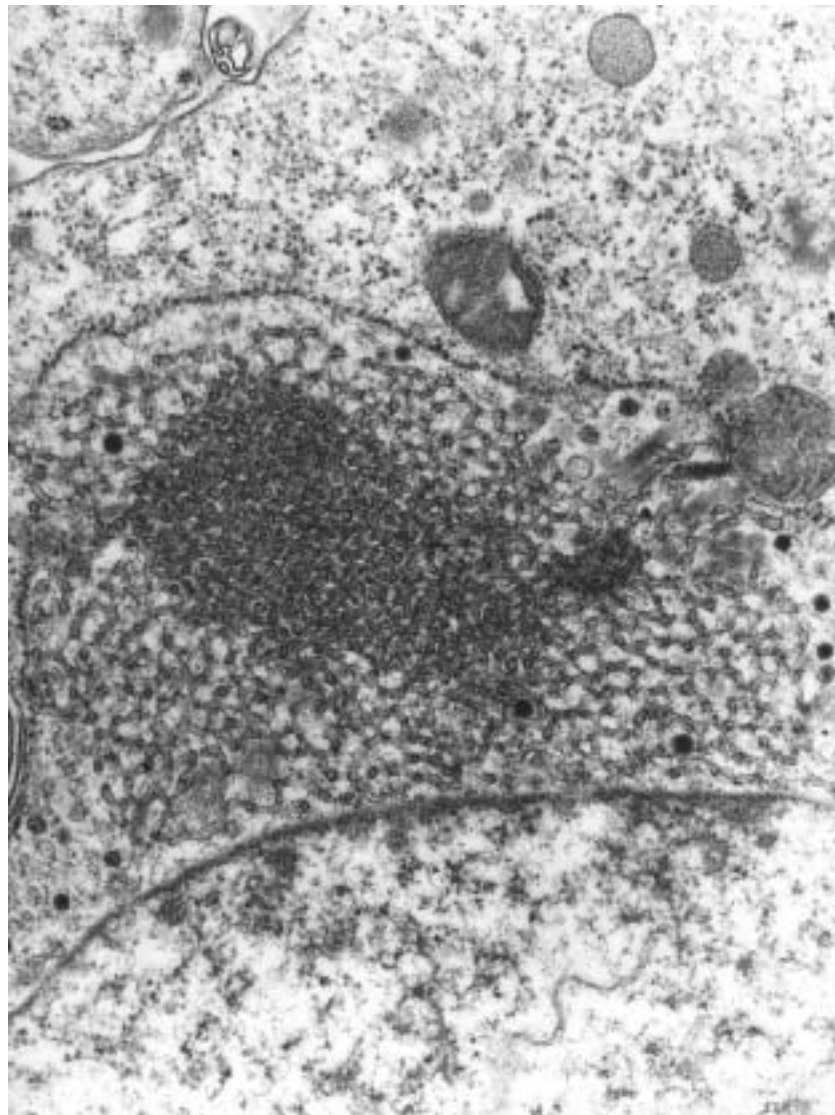
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PUBBLICAZIONI 1995



**Strutture tubuloreticolari rivelate dalla microscopia elettronica a trasmissione
in sezioni ultrasottili di cellule in coltura infettate con rotavirus**

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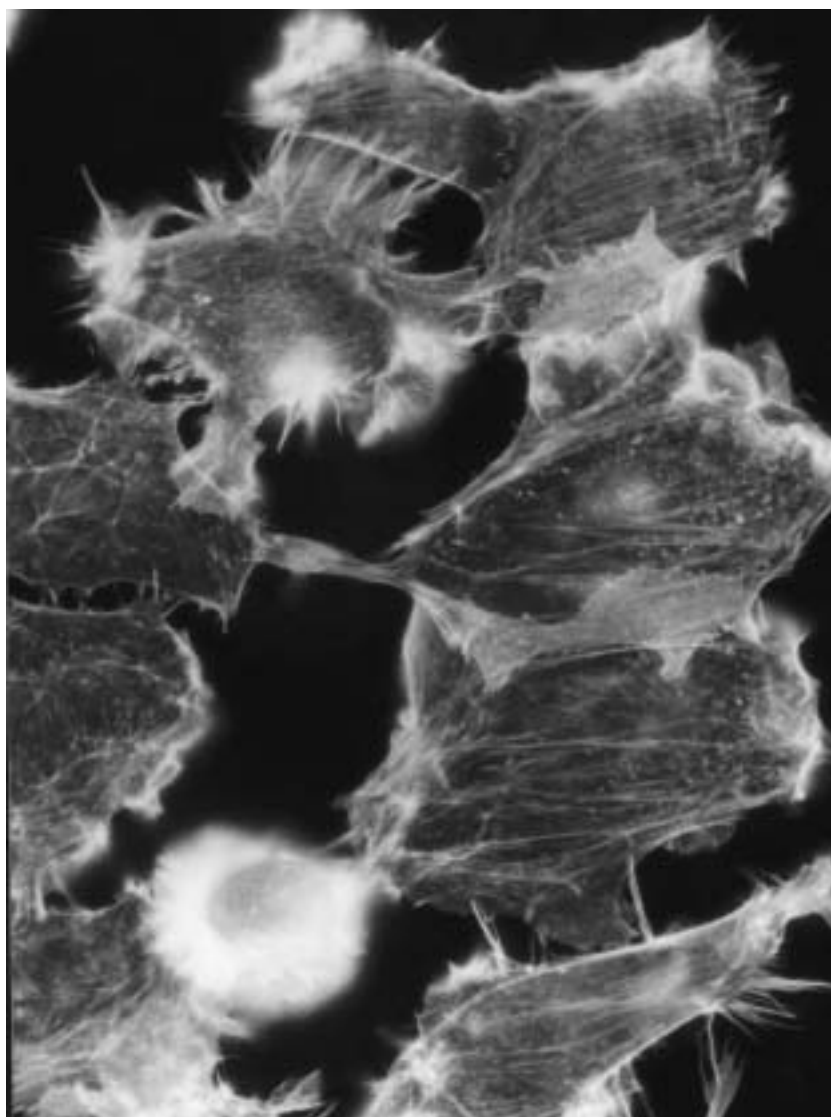
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TOTALE IF: 99.250

PUBBLICAZIONI 1996



**Modificazioni della componente actinica dell'apparato citoscheletrico
indotte in cellule epiteliali in coltura dalla tossina batterica CNF
(microscopia ottica in fluorescenza)**

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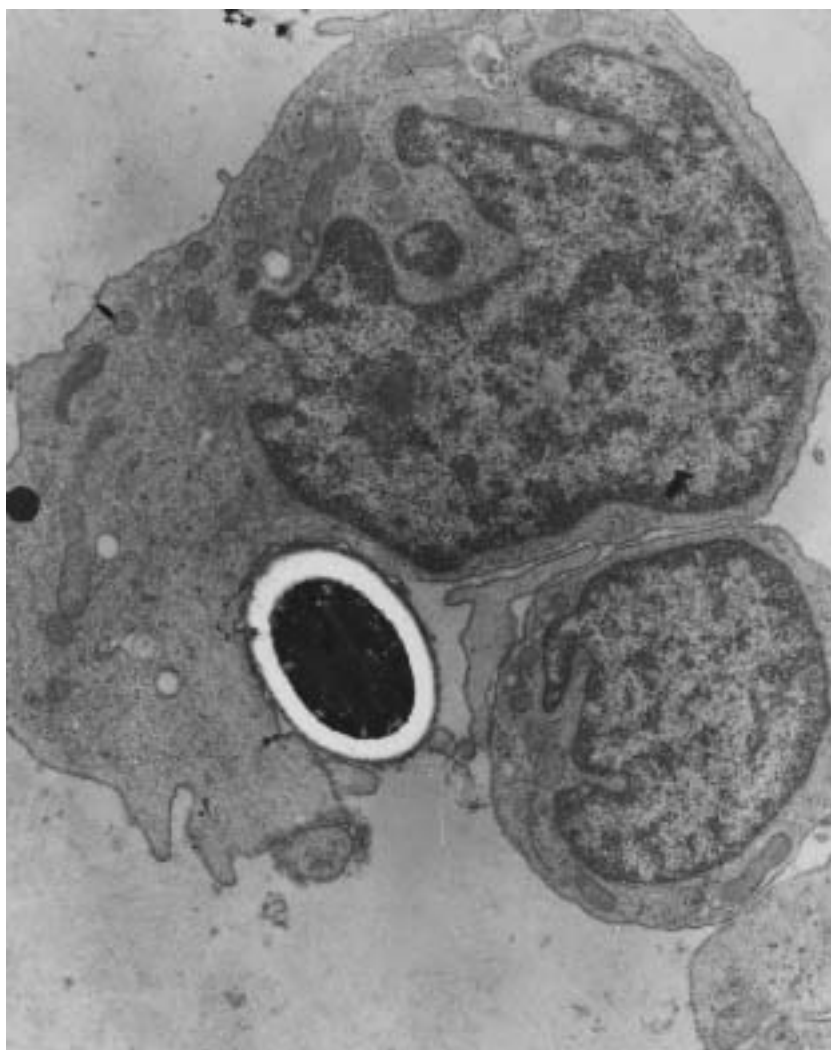
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TOTALE IF: 68.888

PUBBLICAZIONI 1997



**Interazione tra linfociti citotossici attivati da interleuchina 2 e
cellule di *Candida albicans* (microscopia elettronica a trasmissione)**

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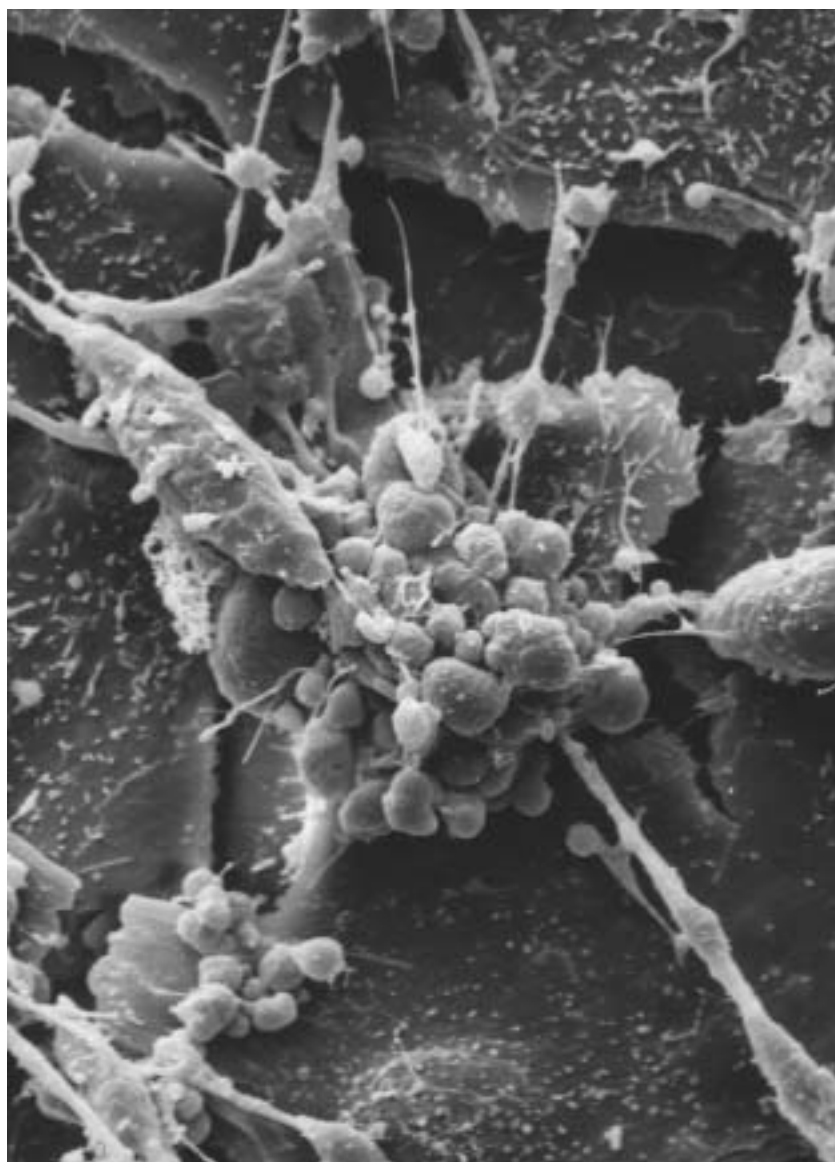
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PUBBLICAZIONI 1998



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microscopia elettronica a scansione**

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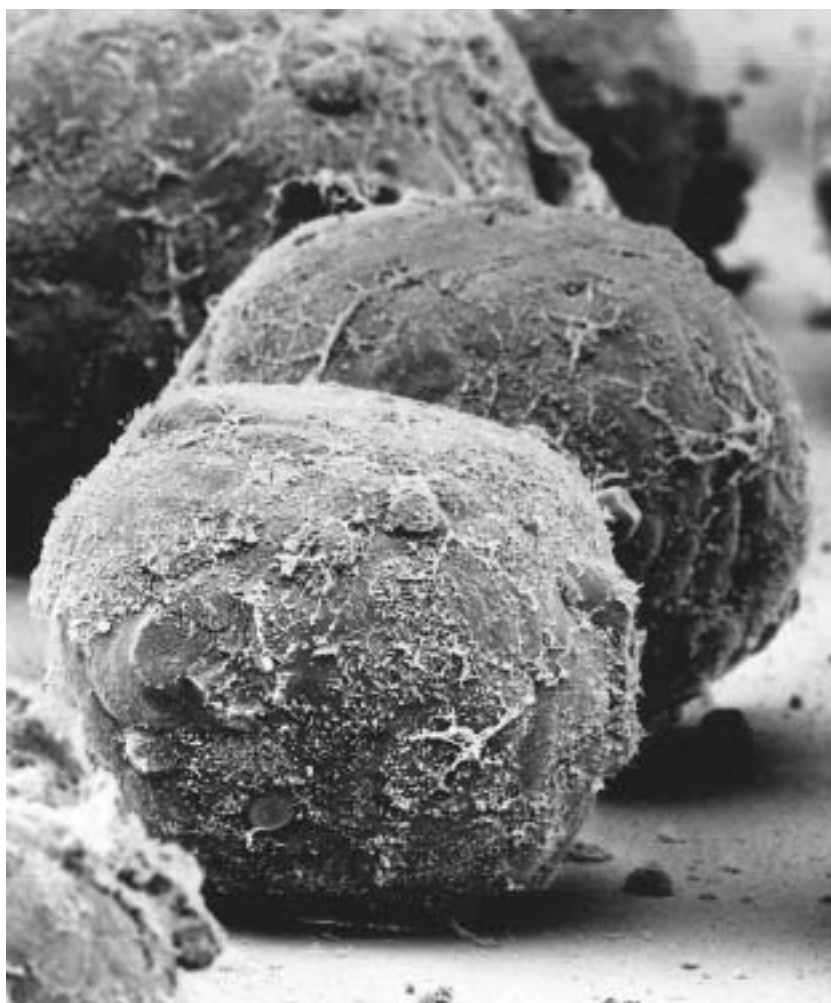
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IF: nd

TOTALE IF: 118.839

PUBBLICAZIONI 1999



**Immagine al microscopio elettronico a scansione di sferoidi di cellule HT29
(adenocarcinoma del colon) dopo 6 giorni di crescita
con la tecnica del gyratory system**

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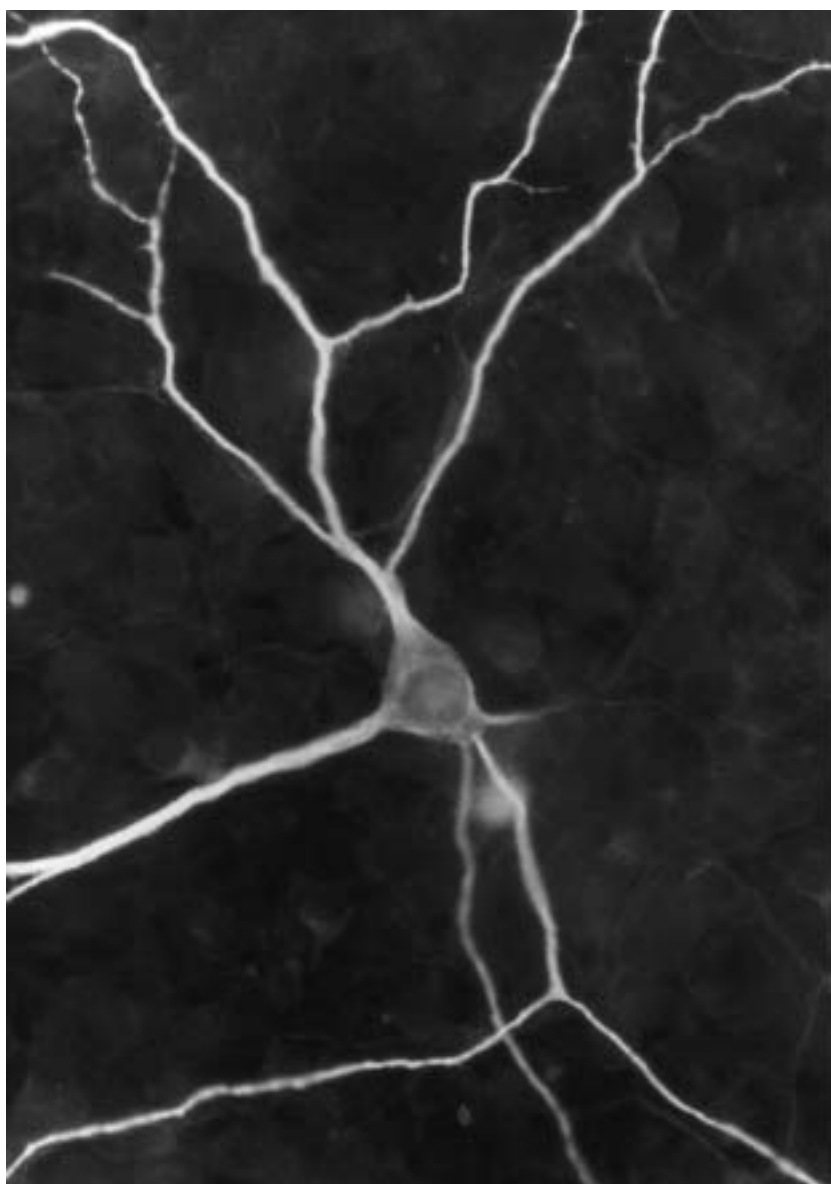
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PUBBLICAZIONI 2000



**Neurone gabaergico in coltura primaria di ippocampo
di ratto (immunofluorescenza)**

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INDICE DEGLI AUTORI

Note per la consultazione

Per ogni autore vengono riportate le pagine in cui compaiono le proprie pubblicazioni e, tra parentesi in corsivo, il numero progressivo dato alla pubblicazione secondo l'ordine alfabetico dell'anno in questione.

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